

ADDENDUM No. 1 Request for Proposals (RFP) 19RFP033- Structured Network Cabling

November 28, 2018

Item 1: Layout of Appendix A

<u>Item 1:</u>

The layout of Appendix A cut off some columns. The corrected forms are attached.

Item	Description			
	HORIZONTAL CABLING	Labor	Materials	Total Cost
	All Cabling services should include testing, verification, reporting at no extra charge.			
1	Provide & Install Single Cat 6 Drop Qty (1) (0-150 Ft.) Plenum (Material & Labor Included)			
2	Provide & Install Single Cat 6 Drop Qty (5 To 20) (0-150 Ft.) Plenum (Material & Labor Included)			
3	Provide & Install Single Cat 6 Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)			
4	Provide & Install Single Cat 6 Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)			
5	Provide & Install Single Cat 6 Drop Qty (5 To 20) (151-300 Ft.) Plenum (Material & Labor Included)			
6	Provide & Install Single Cat 6 Drop Qty (21 To 100) (151-300 Ft.) Plenum (Material & Labor Included)			
7	Provide & Install Single Cat 6A Drop Qty (1) (0-150 Ft.) Plenum (Material & Labor Included)			
8	Provide & Install Single Cat 6A Drop Qty (5 To 20) (0-150 Ft.) Plenum (Material & Labor Included)			
9	Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)			
10	Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)			
11	Provide & Install Single Cat 6A Drop Qty (5 To 20) (151-300 Ft.) Plenum (Material & Labor Included)			
12	Provide & Install Single Cat 6A Drop Qty (21 To 100) (151-300 Ft.) Plenum (Material & Labor Included)			
13	Cat 6 Jumper (3 Mtrs, Gray)			
14	Cat 6 Jumper (5 Mtrs, Gray)			
15	Cat 6 Jumper (10 Mtrs, Gray)			
16	Cat 6A Jumper (3 Mtrs, Gray)			
17	Cat 6A Jumper (5 Mtrs, Gray)			
18	Cat 6A Jumper (10 Mtrs, Gray)			
19	Provide & Install Conduit (1") - 10' Section (Including All Necessary Connectors, Bends, Etc.)			
20	Provide & Install Conduit (2") - 10' Section (Including All Necessary Connectors, Bends, Etc.)			
21	Provide & Install Conduit (3") - 10' Section (Including All Necessary Connectors, Bends, Etc.)			
22	Reterminate Existing Drops (From Wall To Ceiling)			
23	Provide & Install Catv Rg6 Plenum Qty (11 To 20) (151-300Ft.) (Material & Labor Included)			
24	Provide & Install Single Rg11 Plenum Qty (1) (1-100Ft.) (Material & Labor Included)			
25	Provide & Install Single Rg11 Plenum Qty (1) (1-200Ft.) (Material & Labor Included)			
26	Provide & Install Single Rg11 Plenum Qty (1) (1-300Ft.) (Material & Labor Included)			
27	Provide And Install Catv Amplifier (750Mhz Lxll W/Housing And 30 Mhz Reverse) (Material & Labor Included)			

	RISER & TIE CABLES - FIBER	Labor	Materials	Total Cost
28	Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation			
29	Provide And Install Additional Footage For Line Item above - 12 Strand SM Fiber Osp (1 Ft.). This Includes Aerial Cable Installation			
30	Provide And Install 12 Strand SM Fiber Plenum (300') Isp With Terminations On Both Sides. (Material & Labor Included)			
31	Provide And Install Additional Footage For Line Item above - 12 Strand SM Fiber Isp Osp (1 Ft.).			
32	Provide And Install SM Fiber Patch Panel (24 Pt, LC)			
33	Fiber Jumper (3 Mtrs.,Gray, Sm Lc-Lc)			
34	Fiber Jumper (5 Mtrs., Gray, Sm Lc-Lc)			
35	Fiber Jumper (10 Mtrs., Gray, Sm Lc-Lc)			
36	J Hooks (Supply And Install)			
	RISER & TIE CABLES - COPPER	Labor	Materials	Total Cost
37	Provide And Install 25 Pair Cat 3 Riser (100') With Terminations (Material & Labor Included)			
38	Provide And Install Additional Footage For Line Item above (Material & Labor Included)			
39	Provide And Install 25 Pair Cat 3 Osp (100') (Material & Labor Included) This Includes The Cabling With Terminations On A 66 Block Lightning Protection On Both Ends.			
40	Provide And Install Additional Footage For Line Item above (Material & Labor Included)			
	NETWORK CLOSET BUILD OUT / RENNOVATION	Labor	Materials	Total Cost
41	Provide & Install 2Ru Fiber Optic Box Loaded With 1 Fap 12 Lc (Sm/Mm) (Material & Labor Included)			
42	Provide & Install 2Ru Fiber Optic Box Loaded With 2 Fap 12 Lc (Sm/Mm) (Material & Labor Included)			
43	Provide & Install 19" Two Post Rack, Cabinet, Wall Mount, Etc. (Labor Only)			
44	Provide & Install 48 Port Cat 6 Patch Panel			
45	Provide & Install 48 Port Cat 6A Patch Panel			
46	Provide & Install Grounding Bus Bar (Labor Only)			
47	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max			
48	Provide & Install 10' Section Basket Tray			
49	Provide & Install Cable Runway (Basket) Radius Bends (Labor Only)			

50	Provide & Install 10' Section Ladder Tray			
51	Provide & Install Cable Runway Radius Drops (Labor Only)			
52	Provide & Install Cable Runway Radius Bends (Labor Only)			
53	Provide & Install 4'X4' Fire Rated Plywood Board Painted (Material & Labor Included)			
54	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)			
55	Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu)			
56	Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)			
57	Provide & Install 19" Rack Chatsworth # 55053-X03, Silver)			
58	Reloc. Existing Rack (With Equipment Installed)			
59	Provide & Install Ladder Rack			
60	Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)			
61	Provide And Install Cat 6 Patch Panel-24 Port			
62	Provide And Install Cat 6A Patch Panel-24 Port			
63	Provide And Install Cat 6 Patch Panel-48 Port			
64	Provide And Install Cat 6A Patch Panel-48 Port			
	OTHER CABLING SERVICES	Labor	Materials	Total Cost
65	General Cabling Services (hourly rate)			
66	Install (Wap) Wireless Access Point - Interior (Labor Only)			
67	Install (Wap) Wireless Access Point - Exterior (Labor Only)			
68	Install Ringer Matrix (Concrete, Brick, Sheetrock,Etc) (Labor Only)			
69	Install PA Speaker (Drop Tile) (Labor Only)			
70	Install PA Speaker (Concrete, Brick, Sheetrock,Etc) (Labor Only)			
71	Install PA Horn - Exterior (Concrete, Brick, Sheetrock,Etc) (Labor Only)			
72	Installation Of Displays And TV units And Mounts (Labor Only)			
	DEMOLITION SERVICES	Labor	Materials	Total Cost

	These services should be quoted as a total unit cost (e.g., all travel charges and T & M charges should be included). The objective is to have a fixed cost for this type of service.			
73	Removal/Salvage Of Old Network Equipment - Large School (10-15+ closets) - (Switches, Aps, Ups, Pa, Fiber/Copper Panels)			
74	Removal/Salvage Of Old Network Equipment - Medium School (5-10 closets)- (Switches, Aps, Ups, Pa, Fiber/Copper Panels)			
75	Removal/Salvage Of Old Network Equipment - Small School (1-5 closets) - (Switches, Aps, Ups, Pa, Fiber/Copper Panels)			
76	Removal Of Old Fiber Large School (10-15+ closets)			
77	Removal Of Old Fiber - Medium School (5-10 closets)			
78	Removal Of Old Fiber - Small School (1-5 closets)			
	ADMINISTRATIVE SERVICES	Labor	Materials	Total Cost
79	Project Mgmt - Cabling Of Large School (10-15+ closets)	Labor	Materials	Total Cost
80	Project Mgmt - Cabling Of Medium School (5-10 closets)			
81	Project Mgmt - Cabling Of Small School (1-5 closets)			
- 01	1 Tojost Mg/III Gubinig Gr Ginan Guilson (1 G Gibbate)			
				1
	FIXED COST SERVICES	Labor	Materials	Total Cost
	FIXED COST SERVICES These services should be quoted as a total unit cost (e.g., all travel charges and T & M charges should be included	Labor	Materials	Total Cost
	These services should be quoted as a total unit cost (e.g., all travel charges and T & M charges should be included). The objective is to have a fixed cost for this type of repair.	Labor	Materials	Total Cost
	These services should be quoted as a total unit cost (e.g., all travel charges and T & M charges should be included	Labor	Materials	Total Cost
82	These services should be quoted as a total unit cost (e.g., all travel charges and T & M charges should be included). The objective is to have a fixed cost for this type of repair.	Labor	Materials	Total Cost
82 83	These services should be quoted as a total unit cost (e.g., all travel charges and T & M charges should be included). The objective is to have a fixed cost for this type of repair. Testing, reterminations, patch panel replacement should be included in these services.	Labor	Materials	Total Cost
	These services should be quoted as a total unit cost (e.g., all travel charges and T & M charges should be included). The objective is to have a fixed cost for this type of repair. Testing, reterminations, patch panel replacement should be included in these services. Data Drop Troubleshooting & Repair (estimate 1 hour), (NTE New Cable Drop Installation Cost) AP Cabling Troubleshooting & Repair (estimate 1 hour), (NTE New Cable Drop Installation Cost) PA speaker Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost)	Labor	Materials	Total Cost
83	These services should be quoted as a total unit cost (e.g., all travel charges and T & M charges should be included). The objective is to have a fixed cost for this type of repair. Testing, reterminations, patch panel replacement should be included in these services. Data Drop Troubleshooting & Repair (estimate 1 hour), (NTE New Cable Drop Installation Cost) AP Cabling Troubleshooting & Repair (estimate 1 hour), (NTE New Cable Drop Installation Cost)	Labor	Materials	Total Cost
83 84	These services should be quoted as a total unit cost (e.g., all travel charges and T & M charges should be included). The objective is to have a fixed cost for this type of repair. Testing, reterminations, patch panel replacement should be included in these services. Data Drop Troubleshooting & Repair (estimate 1 hour), (NTE New Cable Drop Installation Cost) AP Cabling Troubleshooting & Repair (estimate 1 hour), (NTE New Cable Drop Installation Cost) PA speaker Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost)	Labor	Materials	Total Cost
83 84 85	These services should be quoted as a total unit cost (e.g., all travel charges and T & M charges should be included). The objective is to have a fixed cost for this type of repair. Testing, reterminations, patch panel replacement should be included in these services. Data Drop Troubleshooting & Repair (estimate 1 hour), (NTE New Cable Drop Installation Cost) AP Cabling Troubleshooting & Repair (estimate 1 hour), (NTE New Cable Drop Installation Cost) PA speaker Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost) Fiber Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost) (SM or MM)	Labor	Materials	Total Cost
83 84 85 86	These services should be quoted as a total unit cost (e.g., all travel charges and T & M charges should be included). The objective is to have a fixed cost for this type of repair. Testing, reterminations, patch panel replacement should be included in these services. Data Drop Troubleshooting & Repair (estimate 1 hour), (NTE New Cable Drop Installation Cost) AP Cabling Troubleshooting & Repair (estimate 1 hour), (NTE New Cable Drop Installation Cost) PA speaker Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost) Fiber Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost) (SM or MM) Wireless Bridge Link Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost) Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical	Labor	Materials	Total Cost
83 84 85 86 87	These services should be quoted as a total unit cost (e.g., all travel charges and T & M charges should be included). The objective is to have a fixed cost for this type of repair. Testing, reterminations, patch panel replacement should be included in these services. Data Drop Troubleshooting & Repair (estimate 1 hour), (NTE New Cable Drop Installation Cost) AP Cabling Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost) PA speaker Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost) Fiber Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost) (SM or MM) Wireless Bridge Link Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost) Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details) Portable Building Connection - Wireless Bridge These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation			
83 84 85 86 87	These services should be quoted as a total unit cost (e.g., all travel charges and T & M charges should be included). The objective is to have a fixed cost for this type of repair. Testing, reterminations, patch panel replacement should be included in these services. Data Drop Troubleshooting & Repair (estimate 1 hour), (NTE New Cable Drop Installation Cost) AP Cabling Troubleshooting & Repair (estimate 1 hour), (NTE New Cable Drop Installation Cost) PA speaker Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost) Fiber Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost) (SM or MM) Wireless Bridge Link Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost) Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details) Portable Building Connection - Wireless Bridge These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services. Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical	QTY	Materials UNIT COST	TOTAL COST
83 84 85 86 87 87.1	These services should be quoted as a total unit cost (e.g., all travel charges and T & M charges should be included). The objective is to have a fixed cost for this type of repair. Testing, reterminations, patch panel replacement should be included in these services. Data Drop Troubleshooting & Repair (estimate 1 hour), (NTE New Cable Drop Installation Cost) AP Cabling Troubleshooting & Repair (estimate 1 hour), (NTE New Cable Drop Installation Cost) PA speaker Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost) Fiber Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost) (SM or MM) Wireless Bridge Link Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost) Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details) Portable Building Connection - Wireless Bridge These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services. Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	QTY 2		
83 84 85 86 87	These services should be quoted as a total unit cost (e.g., all travel charges and T & M charges should be included). The objective is to have a fixed cost for this type of repair. Testing, reterminations, patch panel replacement should be included in these services. Data Drop Troubleshooting & Repair (estimate 1 hour), (NTE New Cable Drop Installation Cost) AP Cabling Troubleshooting & Repair (estimate 1 hour), (NTE New Cable Drop Installation Cost) PA speaker Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost) Fiber Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost) (SM or MM) Wireless Bridge Link Troubleshooting & Repair (estimate 1 hour), (NTE New Installation Cost) Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details) Portable Building Connection - Wireless Bridge These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services. Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical	QTY		

		T		ı
87.5	Cat 6 Jumper (3 Mtrs, Gray)	24		
87.6	Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	2		
87.7	Install PA Speaker (Drop Tile) (Labor Only)	2		
87.8	Install Network Switch (owner provided, bidder to install and verify port connectivity)	1		
87.9	Install IP phones (owner provided, bidder to install and verify port connectivity)	2		
	ADDITIONAL SERVICES	Labor	Materials	Total Cost
	Please quote rates for various skilled staff required for services not included in the categories above. The vendor should add any additional categories that would be billed separately.			
88	Hourly rate for cable technician			
89	Cabling System Design			
90	Fiber Technician			
91	OSP Technician			
92	CAD Technician (for technical drawing updates)			
93	Cable removal / demolition			
94	Project Mgmt			
95	Travel time (if charged separately this should be a reduced rate from technician repair time)			
96	Trip charges (if charged separately this should be a single charge for visiting one or more AISD facilities in a day)			
	OTHER BILLING PREFERENCES	Labor	Materials	Total Cost
	AISD prefers that costs comply with these policies. Bidders should confirm that their pricing is in compliance or			
	provide detailed explanation of exceptions.			
97	Travel charges included in service rates above (if charged separately this should be a reduced rate)			
98	Crew size should be flexible (should have the option for dispatching 1 technician)			
99	Charges for services should include labor (there should not be separate hourly labor charges for quoted services)			

Item	Pricing Example #1 - Campus Installation			
	MDF A – 77 data drops, 3 floor standing racks (1 GAATN, 1 station cabling, 1 core equipment/backbone cabling)	QTY	UNIT COST	TOTAL COST
1	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1		
2	Provide & Install Grounding Bus Bar (Labor Only)	1		
3	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max	1		
4	Provide & Install 19" Rack Chatsworth # 55053-X03, Silver)	3		
5	Provide & Install 10' Section Ladder Tray	3		
7	Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt	6		
8	(Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	3		
9	Provide And Install Fiber Patch Panel (24 Pt)	4		
10	Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation	1		
11	Fiber Jumper (3 Mtrs.,.50 Micron, Gray, Mm St-Lc)	8		
12	Provide & Install 48 Port Cat 6A Patch Panel	3		
13	Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	40		
14	Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)	40		
15	Cat 6 Jumper (3 Mtrs, Gray)	160		
16	J Hooks (Supply And Install)	3600		
	IDF B – 232 data drops, 2 floor standing racks	QTY	UNIT COST	TOTAL COST
17	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1		
18 19	Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max	1		+
20	Provide & Install 19" Rack Chatsworth # 55053-X03, Silver)	2		
21	Provide & Install 10' Section Ladder Tray	3		
22	Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu)	4		
23	Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	4		
24	Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	2		
25	Provide And Install Fiber Patch Panel (24 Pt)	1		
26	Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation	1		

27	Fiber Jumper (3 Mtrs.,.50 Micron, Gray, Mm St-Lc)	2		
28	Provide & Install 48 Port Cat 6A Patch Panel	5		
29	Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	125		
30	Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)	125		
31	Cat 6 Jumper (3 Mtrs, Gray)	500		
32	J Hooks (Supply And Install)	11250		
	IDF C – 232 data drops, 2 floor standing racks	QTY	UNIT COST	TOTAL COST
33	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1		
34	Provide & Install Grounding Bus Bar (Labor Only)	1		
35	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max	1		
36	Provide & Install 19" Rack Chatsworth # 55053-X03, Silver)	2		
37	Provide & Install 10' Section Ladder Tray	3		
38	Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu)	4		
39	Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	4		
40	Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	2		
41	Provide And Install Fiber Patch Panel (24 Pt)	4		
42	Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation	1		
43	Fiber Jumper (3 Mtrs.,.50 Micron, Gray, Mm St-Lc)	8		
44	Provide & Install 48 Port Cat 6A Patch Panel	5		
45	Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	125		
46	Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)	125		
47	Cat 6 Jumper (3 Mtrs, Gray)	500		
48	J Hooks (Supply And Install)	11250		
	IDF D – 43 data drops, 1 floor standing rack	QTY	UNIT COST	TOTAL COST
49	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1		
50	Provide & Install Grounding Bus Bar (Labor Only)	1		
51	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max	1		
52	Provide & Install 19" Rack Chatsworth # 55053-X03, Silver)	1		
53	Provide & Install 10' Section Ladder Tray	3		
	Provide & Install Horiz. Cable Mgmt			
54	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu)	2		
55	Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	2		

56				ı
	Provide & Install Rack Mount Power Strips			
00	(Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	1		
57	Provide And Install Fiber Patch Panel (24 Pt)	4		
58	Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation	1		
59	Fiber Jumper (3 Mtrs.,.50 Micron, Gray, Mm St-Lc)	8		
60	Provide & Install 48 Port Cat 6A Patch Panel	5		
61	Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	25		
62	Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)	25		
63	Cat 6 Jumper (3 Mtrs, Gray)	100		
64	J Hooks (Supply And Install)	2250		
	Portable Building Connection - Wireless Bridge	QTY	UNIT COST	TOTAL COST
65	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			
66	Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	2		
67	Provide & Install 24 Port Cat 6A Patch Panel	1		
68	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		
69	Cat 6 Jumper (3 Mtrs, Gray)	24		
70	Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	2		
71	Install PA Speaker (Drop Tile) (Labor Only)	2		
72	Install Network Switch (owner provided, bidder to install and verify port connectivity)	1		
73	Install IP phones (owner provided, bidder to install and verify port connectivity)	2		
	Other Campus Cabling Items	QTY	UNIT COST	TOTAL COST
74	Provide & Install Conduit (1") - 10' Section (Including All Necessary Connectors, Bends, Etc.)	15		
75	Provide & Install Conduit (2") - 10' Section (Including All Necessary Connectors, Bends, Etc.)	4.5	1	
13	Trovide a histail conduct (2) 10 Section (melading 7 in recessary connectors, Bends, 2007	15		
76	Install (Wap) Wireless Access Point - Interior (Labor Only)	15	 	
76	Install (Wap) Wireless Access Point - Interior (Labor Only)	120		
76 77	Install (Wap) Wireless Access Point - Interior (Labor Only) Install PA Speaker (Drop Tile) (Labor Only)	120 40		
76 77 78	Install (Wap) Wireless Access Point - Interior (Labor Only) Install PA Speaker (Drop Tile) (Labor Only) Install PA Speaker (Concrete, Brick, Sheetrock,Etc) (Labor Only)	120 40 10		
76 77 78 79	Install (Wap) Wireless Access Point - Interior (Labor Only) Install PA Speaker (Drop Tile) (Labor Only) Install PA Speaker (Concrete, Brick, Sheetrock,Etc) (Labor Only) Install PA Horn - Exterior (Concrete, Brick, Sheetrock,Etc) (Labor Only)	120 40 10 10	UNIT	TOTAL
76 77 78 79	Install (Wap) Wireless Access Point - Interior (Labor Only) Install PA Speaker (Drop Tile) (Labor Only) Install PA Speaker (Concrete, Brick, Sheetrock,Etc) (Labor Only) Install PA Horn - Exterior (Concrete, Brick, Sheetrock,Etc) (Labor Only) Project Mgmt - Cabling Of Small School Campus	120 40 10 10 1	_	_
76 77 78 79	Install (Wap) Wireless Access Point - Interior (Labor Only) Install PA Speaker (Drop Tile) (Labor Only) Install PA Speaker (Concrete, Brick, Sheetrock,Etc) (Labor Only) Install PA Horn - Exterior (Concrete, Brick, Sheetrock,Etc) (Labor Only) Project Mgmt - Cabling Of Small School Campus Other Billable Items Anticipated By Bidder for Complete Campus Cabling	120 40 10 10 1	_	_
76 77 78 79	Install (Wap) Wireless Access Point - Interior (Labor Only) Install PA Speaker (Drop Tile) (Labor Only) Install PA Speaker (Concrete, Brick, Sheetrock,Etc) (Labor Only) Install PA Horn - Exterior (Concrete, Brick, Sheetrock,Etc) (Labor Only) Project Mgmt - Cabling Of Small School Campus Other Billable Items Anticipated By Bidder for Complete Campus Cabling	120 40 10 10 1	_	_
76 77 78 79	Install (Wap) Wireless Access Point - Interior (Labor Only) Install PA Speaker (Drop Tile) (Labor Only) Install PA Speaker (Concrete, Brick, Sheetrock,Etc) (Labor Only) Install PA Horn - Exterior (Concrete, Brick, Sheetrock,Etc) (Labor Only) Project Mgmt - Cabling Of Small School Campus Other Billable Items Anticipated By Bidder for Complete Campus Cabling	120 40 10 10 1	_	_
76 77 78 79	Install (Wap) Wireless Access Point - Interior (Labor Only) Install PA Speaker (Drop Tile) (Labor Only) Install PA Speaker (Concrete, Brick, Sheetrock,Etc) (Labor Only) Install PA Horn - Exterior (Concrete, Brick, Sheetrock,Etc) (Labor Only) Project Mgmt - Cabling Of Small School Campus Other Billable Items Anticipated By Bidder for Complete Campus Cabling	120 40 10 10 1	_	_
76 77 78 79	Install (Wap) Wireless Access Point - Interior (Labor Only) Install PA Speaker (Drop Tile) (Labor Only) Install PA Speaker (Concrete, Brick, Sheetrock,Etc) (Labor Only) Install PA Horn - Exterior (Concrete, Brick, Sheetrock,Etc) (Labor Only) Project Mgmt - Cabling Of Small School Campus Other Billable Items Anticipated By Bidder for Complete Campus Cabling	120 40 10 10 1	_	_

	Pricing Example #2 - Campus Installation			
	MDF A – 77 data drops, 3 floor standing racks (1 GAATN, 1 station cabling, 1 core equipment/backbone cabling)	QTY	UNIT COST	TOTAL COST
1	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1		- 0031
2	Provide & Install Grounding Bus Bar (Labor Only)	1		
3	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max	1		
4	Provide & Install 19" Rack			
	Chatsworth # 55053-X03, Silver)	3		
5	Provide & Install 10' Section Ladder Tray	3		
6	Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2-Sided Horizontal Cable Mgr 19" 2Rmu)	6		
7	Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	6		
8	Provide & Install Rack Mount Power Strips	0		
	(Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	3		
9	Provide And Install Fiber Patch Panel (24 Pt)	8		
10	Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation	1		
11	Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc)	16		
12	Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Prop. Ob. (21 To 100) (0.150 St.) Bloomy (Material & Labor Included)	3 40		
14	Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)	40		
15	Cat 6 Jumper (3 Mtrs, Gray)	160		
16	J Hooks (Supply And Install)	3600		
	IDF B – 232 data drops, 2 floor standing racks	QTY	UNIT	TOTAL
17	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included	1	COST	COST
18 19	Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' May	1		
	Provide & Install 19" Rack			
20	Chatsworth # 55053-X03, Silver)	2		
21	Provide & Install 10' Section Ladder Tray	3		
22	Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2-Sided Horizontal Cable Mgr 19" 2Rmu)	4		
23	Provide & Install Vert. Cable Mgmt			
	(Chatsworth # 30162-703 2-Sided Vertical Cable Mgr)	4		
24	Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	2		
25	Provide And Install Fiber Patch Panel (24 Pt)	1		
26	Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation	1		
27	Fiber Jumper (3 Mtrs.,,50 Micron, Gray, Mm St-Lc)	2		
28	Provide & Install 48 Port Cat 6A Patch Panel	5		
29	Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	125		
30	Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Cat 6 Jumper (3 Mtrs, Gray)	125 500		
32	J Hooks (Supply And Install)	11250		
	IDF C – 232 data drops, 2 floor standing racks	QTY	UNIT	TOTAL
33	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1	C031	2031
34	Provide & Install Grounding Bus Bar (Labor Only)	1		
35	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max	1		
36	Provide & Install 19" Rack			
37	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray	3		
٠.	Provide & Install Horiz. Cable Mgmt	3		
38				
38	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt	4		
38 39	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	4		
	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt			
39	(Chatsworth # 30530-719 2-Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips	4		
39 40	(Chatsworth # 30530-719 2-Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	2		
39 40 41 42 43	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc)	4 2 4 1 8		
39 40 41 42 43 44	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel	4 2 4 1 8 5		
39 40 41 42 43 44 45 46	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included	4 2 4 1 1 8 5 125 125		
39 40 41 42 43 44 45 46 47	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included Cat 6 Jumper (3 Mtrs, Gray)	4 2 4 1 8 5 125 125 500		
39 40 41 42 43 44 45 46	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included Cat 6 Jumper (3 Mtrs, Gray) J Hooks (Supply And Install)	4 2 4 1 8 5 125 125 500 11250	UNIT	TOTAL
39 40 41 42 43 44 45 46 47 48	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included Cat 6 Jumper (3 Mtrs, Gray) J Hooks (Supply And Install) IDF D – 43 data drops, 1 floor standing rack	4 2 4 1 8 5 125 125 500	UNIT	_
39 40 41 42 43 44 45 46 47 48	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs.,,50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included Cat 6 Jumper (3 Mtrs, Gray) J Hooks (Supply And Install) IDF D – 43 data drops, 1 floor standing rack Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	4 2 4 1 8 5 125 125 500 11250 QTY		_
39 40 41 42 43 44 45 46 47 48	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 3R Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included Cat 6 Jumper (3 Mtrs, Gray) I Hooks (Supply And Install) IDF D – 43 data drops, 1 floor standing rack Provide & Install Grounding Bus Bar (Labor Only)	4 2 4 1 8 5 125 125 500 11250 QTY 1		TOTAL
39 40 41 42 43 44 45 46 47 48	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 3R Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included Cat 6 Jumper (3 Mtrs, Gray) I Hooks (Supply And Install) IDF D – 43 data drops, 1 floor standing rack Provide & Install 4X8' Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max	4 2 4 1 8 5 125 125 500 11250 QTY		_
39 40 41 42 43 44 45 46 47 48	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 3R Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included Cat 6 Jumper (3 Mtrs, Gray) I Hooks (Supply And Install) IDF D – 43 data drops, 1 floor standing rack Provide & Install Grounding Bus Bar (Labor Only)	4 2 4 1 8 5 125 125 500 11250 QTY 1		_

54				
54	Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu)	2		
55	Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	2		
56	Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	1		
57	Provide And Install Fiber Patch Panel (24 Pt)	4		
58	Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation	1		
59	Fiber Jumper (3 Mtrs.,.50 Micron, Gray, Mm St-Lc)	8		
60	Provide & Install 48 Port Cat 6A Patch Panel	5		
61 62	Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included	25 25		
63	Cat 6 Jumper (3 Mitrs, Gray)	100		
64	J Hooks (Supply And Install)	2250	UNIT	TOTAL
65	IDF E – 232 data drops, 2 floor standing racks Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included	QTY 1	COST	COST
66	Frovide & Install Grounding Bus Bar (Labor Only) Provide & Install Grounding Bus Bar (Labor Only)	1		
67	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max	1		
68	Provide & Install 19" Rack Chatsworth # 55053-X03, Silver)	2		
69	Provide & Install 10' Section Ladder Tray	3		
70	Provide & Install Horiz. Cable Mgmt	3		
	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt	4		
71	(Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	4		
72	Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	2		
73	Provide And Install Fiber Patch Panel (24 Pt)	1		
74	Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation	1		
75 76	Fiber Jumper (3 Mtrs.,.50 Micron, Gray, Mm St-Lc)	2		
77	Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	5 125		
78	Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)	125		
79	Cat 6 Jumper (3 Mtrs, Gray)	500		
80	J Hooks (Supply And Install)	11250	UNIT	TOTAL
	IDF F – 232 data drops, 2 floor standing racks	QTY	COST	COST
81	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1		
82	Provide & Install Grounding Bus Bar (Labor Only)	1		
83	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max	1		
84	Provide & Install 19" Rack Chatsworth # 55053-X03, Silver)	2		
84 85	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray			
	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu)	2		
85	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt	2 3 4		
85 86	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips	2 3 4		
85 86 87 88	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	2 3 4 4 2		
85 86 87 88 89	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt)	2 3 4 4 2 4		
85 86 87 88 89 90	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation	2 3 4 4 2 4 1		
85 86 87 88 89 90	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs.,.50 Micron, Gray, Mm St-Lc)	2 3 4 4 2 4 1		
85 86 87 88 89 90	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel	2 3 4 4 2 4 1 8 5		
85 86 87 88 89 90 91 92 93 94	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included	2 3 4 4 2 4 1 8 5 125 125		
85 86 87 88 89 90 91 92 93 94 95	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Cripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Cat 6 Jumper (3 Mtrs, Gray)	2 3 4 4 2 4 1 8 5 125 125 500		
85 86 87 88 89 90 91 92 93 94	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide & Install Fiber Patch Panel (24 Pt) Provide & Install I 2 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install Single Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included Cat 6 Jumper (3 Mtrs, Gray) J Hooks (Supply And Install)	2 3 4 4 2 4 1 8 5 125 125 125 125 125	UNIT	TOTAL
85 86 87 88 89 90 91 92 93 94 95 96	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Cripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Cat 6 Jumper (3 Mtrs, Gray)	2 3 4 4 2 4 1 8 5 125 125 500	UNIT	TOTAL
85 86 87 88 89 90 91 92 93 94 95 96	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide & Install Fiber Patch Panel (24 Pt) Provide & Install I 2 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install Single Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included Cat 6 Jumper (3 Mtrs, Gray) J Hooks (Supply And Install)	2 3 4 4 2 4 1 8 5 125 125 125 125 125		
85 86 87 88 89 90 91 92 93 94 95 96	Chatsworth # 55053-X03, Silver) Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Horiz. Cable Mgmt (Chatsworth # 30510-703 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide & Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs.,50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included 2at 6 Jumper (3 Mtrs, Gray) J Hooks (Supply And Install) IDF G – 43 data drops, 1 floor standing rack Provide & Install Grounding Bus Bar (Labor Only)	2 3 4 4 2 4 1 8 5 125 125 500 11250 QTY		
85 86 87 88 89 90 91 92 93 94 95 96	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included Cat 6 Jumper (3 Mtrs, Gray) J Hooks (Supply And Install) IDF G - 43 data drops, 1 floor standing rack Provide & Install Grounding Bus Bar (Labor Only) Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max	2 3 4 4 2 4 1 8 5 125 125 500 11250 QTY		
85 86 87 88 89 90 91 92 93 94 95 96	Chatsworth # 55053-X03, Silver) Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Horiz. Cable Mgmt (Chatsworth # 30510-703 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide & Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs.,50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included 2at 6 Jumper (3 Mtrs, Gray) J Hooks (Supply And Install) IDF G – 43 data drops, 1 floor standing rack Provide & Install Grounding Bus Bar (Labor Only)	2 3 4 4 2 4 1 8 5 125 125 500 11250 QTY 1		
85 86 87 88 89 90 91 92 93 94 95 96	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30503-192 - Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 8 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included Cat 6 Jumper (3 Mtrs, Gray) J Hooks (Supply And Install) IDF G – 43 data drops, 1 floor standing rack Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack	2 3 4 4 4 2 4 1 8 5 125 125 500 11250 QTY 1 1 1		
85 86 87 88 89 90 91 92 93 94 95 96 97 98 99	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-T19 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Roriz. Cable Mgmt (Chatsworth # 30162-703 2- Sided Horizontal Cable Mgr) Provide & Install Roriz. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included Cat 6 Jumper (3 Mtrs, Gray) J Hooks (Supply And Install) IDF G – 43 data drops, 1 floor standing rack Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver)	2 3 4 4 2 4 1 8 5 125 125 500 11250 QTY 1 1 1		
85 86 87 88 89 90 91 92 93 94 95 96 97 98 99	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz Cable Might (Chatsworth # 30530-719 2- Sided Horizontal Cable Might 19" 2Rmu) Provide & Install Vert. Cable Might (Chatsworth # 30530-719 2- Sided Horizontal Cable Might 19" 2Rmu) Provide & Install Rack Mount Power Strips Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide & Install Rack Mount Power Strips Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide & Install Fiber Patch Panel (24 Pt) Provide & Install I 2 Strand 5M Fiber (300 Pt.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 38 Fort Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Pt.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (21 To 100); (0-150 Pt.) Plenum (Material & Labor Included Cat 6 Jumper (3 Mtrs., Gray) J Hooks (Supply And Install) IDF G – 43 data drops, 1 floor standing rack Provide & Install Grounding Bus Bar (Labor Only) Provide & Install Grounding Bus Bar (Labor Only) Provide & Install 19" Rack Chatsworth # 55053-N03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install 10' Section Ladder Tray Provide & Install 10' Section Ladder Tray Provide & Install 10 Fortion Ladder Might (Chatsworth # 30530-719 2- Sided Horizontal Cable Might 19" 2Rmu) Provide & Install Vert. Cable Might	2 3 4 4 2 4 1 8 5 125 125 500 11250 QTY 1 1 1 1 2		
85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz Cable Migmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Migmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobant 1/2/Dultra Surgesuppressor 12/Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide & Install Fiber Patch Panel (24 Pt) Provide & Install 1 Fiber Patch Panel (24 Pt) Provide & Install 1 2 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This includes Aerial Cable Installation Fiber Jumper (3 Mirs., 50 Micron, Gray, Mm St-Lc) Provide & Install 1 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Potch Panel Provide & Install Single Cat 6A Orop Qty (11 (151-300 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Orop Qty (11 (151-300 Ft.) Plenum (Material & Labor Included Cat 6 Jumper (3 Mirs, Gray) J Hooks (Supply And Install) IDF G – 43 data drops, 1 floor standing rack Provide & Install Grounding Bus Bar (Labor Only) Provide & Install Grounding Bus Bar (Labor Only) Provide & Install 10' Rack Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install 10' Section Ladder Tray Provide & Install 10' Section Ladder Tray Provide & Install Hort. Cable Mgmt (Chatsworth # 30507-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Hort. Cable Mgmt (Chatsworth # 30162-703 2- Sided Horizontal Cable Mgr)	2 3 4 4 4 2 4 1 8 5 125 500 11250 QTY 1 1 1 1 1 3		
85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103	Chatsworth # 55053-X03, Silver) Provide & Install 107 Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 3052-703 2- Sided Vertical Cable Mgr) Provide & Install Roriz. Mount Power Strips (Tripplite Isobar 12/20Ultrs Surgesuppressor 12/0utlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide & Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-tc) Provide & Install 13 Sport Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1 (151-300 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1 (151-300 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1 (151-300 Ft.) Plenum (Material & Labor Included) IDF G – 43 data drops, 1 floor standing rack Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install 10 Section Ladder Tray Provide & Install 10 Section Ladder Tray Provide & Install 10 Foction Ladder Tray Provide & Install 10	2 3 4 4 4 2 4 1 8 5 125 500 11250 QTY 1 1 1 1 2 1 2 1		
85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz, Cable Mgmt (Chatsworth # 30530-719.2-Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2-Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 8 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included Cat 6 Jumper (3 Mtrs, Gray) J Hooks (Supply And Install) IDF G – 43 data drops, 1 floor standing rack Provide & Install 4X8' Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install Grounding Bus Bar (Labor Only) Provide & Install 19" Rack Chatsworth # 30553-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install 11' Section Ladder Tray Provide & Install 11' Section Ladder Tray Provide & Install 11' Section Ladder Tray P	2 3 4 4 4 2 4 1 8 5 125 500 11250 QTY 1 1 1 1 2 2 2 1 4		
85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19' 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30152-7303 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar 12/200 Urta Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide & Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 38 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Trovide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Provide & Install Grounding Bus Bar (Labor Only) Provide & Install 119' Rack Chatsworth # 55053-X03, Silver) Provide & Install In O's Ecction Ladder Tray Pro	2 3 4 4 4 2 4 1 8 5 125 500 11250 QTY 1 1 1 1 2 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1		
85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Horizontal Cable Mgr) Provide & Install Back Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide & Install Back Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (2A Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Parch Panel Provide & Install Single Cat 6A Drop City (1) (151-300 Ft.) Plenum (Material & Labor Included Provide & Install Single Cat 6A Drop City (1) (151-300 Ft.) Plenum (Material & Labor Included Thomas (Supply And Install) IDF G - 43 data drops, 1 floor standing rack Provide & Install 4X'8' Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install Single Cat 6A Drop City (1) (151-300 Ft.) Plenum (Material & Labor Included) Provide & Install Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install Single Cat 6A Drop City (1) (151-300 Ft.) Plenum (1) Plenum (1) Plenum (1) Plenum (1) Plenum (1) Provide & Install Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install Single Cat 6A Drop City (1) Plenum (2 3 4 4 4 2 4 1 8 5 125 125 500 11250 QTY 1 1 1 1 2 1 3 2 2 1 4 1 8		
85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19' 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30152-7303 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar 12/200 Urta Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide & Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 38 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Trovide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Provide & Install Grounding Bus Bar (Labor Only) Provide & Install 119' Rack Chatsworth # 55053-X03, Silver) Provide & Install In O's Ecction Ladder Tray Pro	2 3 4 4 4 2 4 1 8 5 125 500 11250 QTY 1 1 1 1 2 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1		
85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108	Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install 12 Strand SM Fiber (and Explain SM) (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr) Provide & Install 18 Explain Chapter Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide & Install 18 Explain Explain Size (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 4 Strip Ct Cat 6A Drop City (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install 36 Port Cat 6A Drop City (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included Provide & Install 5 Insple Cat 6A Drop City (11) (151-300 Ft.) Plenum (Material & Labor Included Provide & Install 4 Xing Fire Rated Plywood Board Painted (Material & Labor Included) DF G – 43 data drops, 1 floor standing rack Provide & Install 6 Fort Grounding Bus Bar (Labor Only) DF G – 43 data drops, 1 floor standing rack Provide & Install 6 Fort Grounding Bus Bar (Labor Only) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr) Provide & Install Side Fort Sided Vertical Cable Mgr) Provide & Install Side Fort Sided Vertical Cable Mgr) Provide & Install Side Fort Sided Vertical Cable Mgr) Provide & Install 10' Section Ladder Tray Provide & Install 14' Sided Vertical Cable Mgr) Provide & Install 14' Sided Vertical Cable Mgr) Provi	2 3 4 4 4 2 4 1 8 5 125 500 11250 QTY 1 1 1 1 1 4 1 8 5 5 125 500 11250 11250		

	Portable Building #1 Connection - Wireless Bridge	QTY	UNIT	TOTAL
	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.		COST	COST
	installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	2		
	Provide & Install 24 Port Cat 6A Patch Panel	1		
	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		
	Cat 6 Jumper (3 Mtrs, Gray) Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	24		
	install PA Speaker (Drop Tile) (Labor Only)	2		
120	install Network Switch (owner provided, bidder to install and verify port connectivity	1		
121	install IP phones (owner provided, bidder to install and verify port connectivity,	2		
I	Portable Building #2 Connection - Wireless Bridge	QTY	UNIT COST	TOTA COST
	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			
	Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details) Provide & Install 24 Port Cat 6A Patch Panel	1		
	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		
126	Cat 6 Jumper (3 Mtrs, Gray)	24		
	install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP,	2		
	install PA Speaker (Drop Tile) (Labor Only) Install Network Switch (owner provided, bidder to install and verify port connectivity)	1		
	install IP phones (owner provided, bidder to install and verify port connectivity)	2		
I	Portable Building #3 Connection - Wireless Bridge	QTY	UNIT	COST
	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			
	installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	2		
	Provide & Install 24 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	1 12	1	1
	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included, Cat 6 Jumper (3 Mtrs, Gray)	12 24	<u> </u>	
	Local Osmiper (2) minds, Gray) Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	2		
137	install PA Speaker (Drop Tile) (Labor Only)	2		
	install Network Switch (owner provided, bidder to install and verify port connectivity)	1		
139	install IP phones (owner provided, bidder to install and verify port connectivity)	2	115117	TOTA
I	Portable Building #4 Connection - Wireless Bridge	QTY	UNIT COST	TOTA COST
	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			
	installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	2		
	Provide & Install 24 Port Cat 6A Patch Panel	1		
	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included; Cat 6 Jumper (3 Mtrs, Gray)	12 24		-
	Lact of unitipe (1.5 units), Gray) Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	24		
	install PA Speaker (Drop Tile) (Labor Only)	2		
	install Network Switch (owner provided, bidder to install and verify port connectivity	1		
	install IP phones (owner provided, bidder to install and verify port connectivity)	2	UNIT	TOTA
	Portable Building #5 Connection - Wireless Bridge	QTY	COST	COST
4=0	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			
	Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details) Provide & Install 24 Port Cat 6A Patch Panel	2		
	Provide & Install 24 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included	1 12		
	Cat 6 Jumper (3 Mtrs, Gray)	24		
	install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	2		
	install PA Speaker (Drop Tile) (Labor Only)	2		
	Install Network Switch (owner provided, bidder to install and verify port connectivity) Install IP phones (owner provided, bidder to install and verify port connectivity)	2		
	Portable Building #6 Connection - Wireless Bridge	QTY	UNIT	TOTA
158	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.		COST	COST
	installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	2		
160	Provide & Install 24 Port Cat 6A Patch Panel	1		
	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		
	Cat 6 Jumper (3 Mtrs, Gray)	24	1	1
	Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP) Install PA Speaker (Drop Tile) (Labor Only)	2	 	
	install Network Switch (owner provided, bidder to install and verify port connectivity)	1		1
	install IP phones (owner provided, bidder to install and verify port connectivity)	2	LINIT	TOTA
	Other Campus Cabling Items	QTY	UNIT COST	COST
	Provide & Install Conduit (1") - 10' Section (Including All Necessary Connectors, Bends, Etc.	30		<u> </u>
	Provide & Install Conduit (2") - 10' Section (Including All Necessary Connectors, Bends, Etc. Install (Wap) Wireless Access Point - Interior (Labor Only)	30 200	-	-
	install PA Speaker (Drop Tile) (Labor Only)	70	 	1
171	install PA Speaker (Concrete, Brick, Sheetrock,Etc) (Labor Only)	15	<u> </u>	
	install PA Horn - Exterior (Concrete, Brick, Sheetrock,Etc) (Labor Only) Project Mgmt - Cabling Of Mid-Size School Campus	15 1		
	Other Billable Items Anticipated By Bidder for Complete Campus Cabling	QTY	UNIT	TOTA
	Note: Bidders should add any additional items that they consider necessary for completion of a campus wiring project	- Q.I.	COST	COST
	,			
		_		1

Item Pi	ricing Example #3 - Campus Installation			
M	IDF A – 77 data drops, 3 floor standing racks (1 GAATN, 1 station cabling, 1 core equipment/backbone cabling)	QTY	UNIT	COST
1 Pr	rovide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1		
2 _{Pr}	rovide & Install Grounding Bus Bar (Labor Only)	1		
3 Pr	rovide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max	1		
4	rovide & Install 19" Rack hatsworth # 55053-X03, Silver)	3		
_	rovide & Install 10' Section Ladder Tray	3		
6 Pr	rovide & Install Horiz. Cable Mgmt			
(C	Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) rovide & Install Vert. Cable Mgmt	6		
/ (C	Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	6		
8	rovide & Install Rack Mount Power Strips Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	3		
	rovide And Install Fiber Patch Panel (24 Pt)	4		
40	rovide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation	1		
44	ber Jumper (3 Mtrs.,.50 Micron, Gray, Mm St-Lc)	8		
12 Pr	rovide & Install 48 Port Cat 6A Patch Panel	3		
	rovide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	40		
45	rovide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)	40		-
Cc	at 6 Jumper (3 Mtrs, Gray) Hooks (Supply And Install)	160 3600		
	OF B – 250 data drops, 2 floor standing racks	QTY	UNIT	TOT
	rovide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1	COST	cos
	rovide & Install Grounding Bus Bar (Labor Only)	1		
	rovide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max rovide & Install 19" Rack	1		
20	hatsworth # 55053-X03, Silver)	2		
	rovide & Install 10' Section Ladder Tray	3		
22	rovide & Install Horiz. Cable Mgmt Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu)	4		
23 Pr	rovide & Install Vert. Cable Mgmt Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	4		
	rovide & Install Rack Mount Power Strips Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	2		
0.5	rovide And Install Fiber Patch Panel (24 Pt)	1		
26 Pr	rovide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation	1		
	ber Jumper (3 Mtrs.,.50 Micron, Gray, Mm St-Lc)	2		
00	rovide & Install 48 Port Cat 6A Patch Panel	5		-
00	rovide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	125		
31 Ca	rovide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) at 6 Jumper (3 Mtrs, Gray)	125 500		
32 J I	Hooks (Supply And Install)	11250	LINUT	TOTA
IC	OF C – 250 data drops, 2 floor standing racks	QTY	UNIT COST	COS
33 Pr	rovide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1		
34 Pr	rovide & Install Grounding Bus Bar (Labor Only)	1		
	rovide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max	1		
36	rovide & Install 19" Rack hatsworth # 55053-X03, Silver)	2		
	rovide & Install 10' Section Ladder Tray	3		
20	rovide & Install Horiz. Cable Mgmt Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu)	4		
30	rovide & Install Vert. Cable Mgmt Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	4		
40 Pr	rovide & Install Rack Mount Power Strips			
44	Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) rovide And Install Fiber Patch Panel (24 Pt)	4		
	rovide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation	1		
40	ber Jumper (3 Mtrs.,.50 Micron, Gray, Mm St-Lc)	8		
	rovide & Install 48 Port Cat 6A Patch Panel rovide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	5 125		
46 Pr	rovide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)	125		
	at 6 Jumper (3 Mtrs, Gray)	500		-
	Hooks (Supply And Install)	11250	UNIT	TOTA
	DF D – 43 data drops, 1 floor standing rack	QTY	COST	cos
49 Pr	rovide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1		

51	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max	1		
	Provide & Install 19" Rack			
52	Chatsworth # 55053-X03, Silver)	1		
53	Provide & Install 10' Section Ladder Tray	3		
	Provide & Install Horiz. Cable Mgmt			
54	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu)	2		
	Provide & Install Vert. Cable Mgmt			
55	(Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	2		
56	Provide & Install Rack Mount Power Strips			
30	(Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	1		
57	Provide And Install Fiber Patch Panel (24 Pt)	4		
58	Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation	1		
59 60	Fiber Jumper (3 Mtrs.,.50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel	- 8 - 5		
61	Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	25		
62	Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)	25		
63	Cat 6 Jumper (3 Mtrs, Gray)	100		
64	J Hooks (Supply And Install)	2250	LINIT	TOTAL
	IDF E – 200 data drops, 2 floor standing racks	QTY	UNIT	TOTAL COST
65	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1	C031	6031
66	Provide & Install Grounding Bus Bar (Labor Only)	1		
67	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max	1		
68	Provide & Install 19" Rack			
	Chatsworth # 55053-X03, Silver)	2		
69	Provide & Install 10' Section Ladder Tray	3		
70	Provide & Install Horiz. Cable Mgmt			
	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt	4		
71	(Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	4		
70	Provide & Install Rack Mount Power Strips			
72	(Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	2		
73	Provide And Install Fiber Patch Panel (24 Pt)	1		
74	Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation	1		
75	Fiber Jumper (3 Mtrs.,:50 Micron, Gray, Mm St-Lc)	2		
76	Provide & Install 48 Port Cat 6A Patch Panel	5		
77	Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	100		
78				
79	Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Cat 6 Jumper (3 Mtrs, Gray)	100 400		
80	Late obtainer (3 Mrts, dray) J Hooks (Supply And Install)	9000		
	IDF F – 200 data drops, 2 floor standing racks	QTY	UNIT	TOTAL
	157 1 255 data di opo, 2 1656 Stationing (data	۹		
81			COST	COST
82	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1	COST	COST
83	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install Grounding Bur Rev (Labor Only)	1	COSI	COST
	Provide & Install Grounding Bus Bar (Labor Only)	1	COST	COST
	Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max		COSI	COST
84	Provide & Install Grounding Bus Bar (Labor Only)	1	COSI	COST
84 85	Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray	1	COST	COST
	Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt	1 1 2 3	COST	COST
85 86	Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu)	1 1 2	COST	COST
85	Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	1 1 2 3	COST	COST
85 86	Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips	1 1 2 3 4	COST	COST
85 86 87 88	Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	1 1 2 3 4 4	COST	COST
85 86 87 88 89	Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt)	1 1 2 3 4 4 2 4	COST	COST
85 86 87 88 89 90	Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	1 1 2 3 4 4	COST	COST
85 86 87 88 89 90	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Horiz. Cable Mgmt (Chatsworth # 30162-703 2- Sided Horizontal Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide & Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc)	1 1 2 3 4 4 2 4 1 8	COST	COST
85 86 87 88 89 90 91	Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel	1 1 2 3 4 4 2 4 1 8 5	COST	COST
85 86 87 88 89 90 91 92	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	1 2 3 4 4 2 4 1 8 5 100	COST	COST
85 86 87 88 89 90 91	Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel	1 1 2 3 4 4 2 4 1 8 5	COST	COST
85 86 87 88 89 90 91 92 93 94 95	Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Cat 6 Jumper (3 Mtrs, Gray)	1 2 3 4 4 2 4 1 8 5 100 100 400	COST	COST
85 86 87 88 89 90 91 92 93	Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install I 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30530-719 2- Sided Vertical Cable Mgr) Provide & Install Roth Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Cat 6 Jumper (3 Mtrs, Gray) J Hooks (Supply And Install)	1 1 2 3 4 4 4 2 4 1 8 5 100 100 400 9000	UNIT	
85 86 87 88 89 90 91 92 93 94 95	Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Cat 6 Jumper (3 Mtrs, Gray)	1 2 3 4 4 2 4 1 8 5 100 100 400		
85 86 87 88 89 90 91 92 93 94 95 96	Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 3053-730 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Triplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (11 (151-300 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (11 (151-300 Ft.) Plenum (Material & Labor Included) Ibos (Supply And Install) IDF G - 250 data drops, 2 floor standing racks Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1 1 2 3 4 4 4 2 4 1 8 5 100 100 400 9000 QTY 1	UNIT	TOTAL
85 86 87 88 89 90 91 92 93 94 95 96	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install #19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Horizontal Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide & Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Cat 6 Jumper (3 Mtrs, Gray) J Hooks (Supply And Install) IDF G - 250 data drops, 2 floor standing racks Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install Grounding Bus Bar (Labor Only)	1 1 2 3 4 4 4 2 4 1 8 5 100 100 400 9000 QTY 1 1	UNIT	TOTAL
85 86 87 88 89 90 91 92 93 94 95 96	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19'' Rack Chatsworth # 55053-X03, Silver) Provide & Install Boriz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19'' 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Horizontal Cable Mgr) Provide & Install Rack Mount Power Strips (Cripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide & Install Fack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 4P Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) IDF G - 250 data drops, 2 floor standing racks Provide & Install Grounding Bus Bar (Labor Only) Provide & Install Grounding Bus Bar (Labor Only) Provide & Install Grounding Bus Bar (Labor Only) Provide & Install H6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max	1 1 2 3 4 4 4 2 4 1 8 5 100 100 400 9000 QTY 1	UNIT	TOTAL
85 86 87 88 89 90 91 92 93 94 95 96	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 3030-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Rack Mount Power Strips (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide & Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Ibf G - 250 data drops, 2 floor standing racks Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (20 Ft.) Plenum (Material & Labor Included) IDF G - 250 data drops, 2 floor standing racks Provide & Install 1'X8' Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install Brounding Bus Bar (Labor Only) Provide & Install Brounding Bus Bar (Labor Only) Provide & Install 1'X8' Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install Brounding Bus Bar (Labor Only) Provide & Install 1'X8' Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install 1'X8' Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install 1'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1 1 2 3 4 4 4 2 4 1 8 5 100 100 400 9000 QTY 1 1 1	UNIT	TOTAL
85 86 87 88 89 90 91 92 93 94 95 96	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 3053-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Horiz. Cable Mgmt (Chatsworth # 30162-703 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide & Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 3 Ingle Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Provide & Install 4X8' Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install 4X8' Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install 5 Ft. Provi	1 1 2 3 4 4 4 2 4 1 8 5 100 100 400 9000 QTY 1 1 1 2	UNIT	TOTAL
85 86 87 88 89 90 91 92 93 94 95 96	Provide & Install Brounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10" Section Ladder Tray Provide & Install 10" Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30520-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 305162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install Single Cat 6A Drop City (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop City (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Cat 6 Jumper (3 Mtrs., Gray) J Hooks (Supply And Install) IDF G — 250 data drops, 2 floor standing racks Provide & Install Grounding Bus Bar (Labor Only) Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray	1 1 2 3 4 4 4 2 4 1 8 5 100 100 400 9000 QTY 1 1 1	UNIT	TOTAL
85 86 87 88 89 90 91 92 93 94 95 96	Provide & Install Brounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 10' Section Ladder Tray Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Wert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Horizontal Cable Mgr) Provide & Install Rock Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 18 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Cty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Cty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Cty (1) (151-300 Ft.) Plenum (Material & Labor Included) DF G — 250 data drops, 2 floor standing racks Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install Grounding Bus Bar (Labor Only) Provide & Install 19' Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt	1 1 2 3 4 4 4 2 4 1 8 5 100 100 400 9000 QTY 1 1 1 2 3	UNIT	TOTAL
85 86 87 88 89 90 91 92 93 94 95 96	Provide & Install Brounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10" Section Ladder Tray Provide & Install 10" Section Ladder Tray Provide & Install Horiz. Cable Mgmt (Chatsworth # 30520-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt (Chatsworth # 305162-703 2- Sided Vertical Cable Mgr) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install Single Cat 6A Drop City (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop City (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Cat 6 Jumper (3 Mtrs., Gray) J Hooks (Supply And Install) IDF G — 250 data drops, 2 floor standing racks Provide & Install Grounding Bus Bar (Labor Only) Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 19" Rack Chatsworth # 55053-X03, Silver) Provide & Install 10' Section Ladder Tray	1 1 2 3 4 4 4 2 4 1 8 5 100 100 400 9000 QTY 1 1 1 2	UNIT	TOTAL
85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101	Provide & Install Grounding Bus Bar (Labor Only) Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 10' Section Ladder Tray Provide & Install To' Section Ladder Tray Provide & Install Rack Mount Power Strips (Chatsworth # 30360-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Rack Mount Power Strips (Tripplite Isobar12/2/Dultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord) Provide And Install Fiber Patch Panel (24 Pt) Provide And Install Fiber Patch Panel (24 Pt) Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc) Provide & Install 3 Fiber Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (11 (151-300 Ft.) Plenum (Material & Labor Included) Cat 6 Jumper (3 Mtrs, Gray) J Hooks (Supply And Install) IDF G – 250 data drops, 2 floor standing racks Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included) Provide & Install 19" Rack Chatsworth # 50553-X03, Silver) Provide & Install 10' Section Ladder Tray	1 1 2 3 4 4 4 2 4 1 8 5 100 100 400 9000 QTY 1 1 1 2 3	UNIT	TOTAL

	Provide & Install Rack Mount Power Strips			
104	(Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	2		
105	Provide And Install Fiber Patch Panel (24 Pt)	1		
106 107	Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc)	2		
108 109	Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	5 125		
110 111	Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Cat 6 Jumper (3 Mtrs, Gray)	125 500		
112	J Hooks (Supply And Install)	11250		
	IDF H – 200 data drops, 2 floor standing racks	QTY	UNIT	COST
113	Drouido 9 Jestall 4/V9! Fire Dated Dhugaed Deard Dristed (Material 9 Jahos Jesluded)	1	CO31	C031
	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)			
114	Provide & Install Grounding Bus Bar (Labor Only)	1		
115	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max Provide & Install 19" Rack	1		
116	Chatsworth # 55053-X03, Silver)	2		
117	Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt	3		
118	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu) Provide & Install Vert. Cable Mgmt	4		
119	(Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	4		
120	Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	2		
121	Provide And Install Fiber Patch Panel (24 Pt)	4		
122	Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation	1		
123	Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc)	8		
124	Provide & Install 48 Port Cat 6A Patch Panel	5		
125	Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	100		
126 127	Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included) Cat 6 Jumper (3 Mtrs, Gray)	100 400		
128	J Hooks (Supply And Install)	9000		
120			UNIT	TOTA
	IDF I – 43 data drops, 1 floor standing rack	QTY	COST	cos
129	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1		
130	Provide & Install Grounding Bus Bar (Labor Only)	1		
131	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max	1		
	Provide & Install 19" Rack			
132	Chatsworth # 55053-X03, Silver)	1		
133	Provide & Install 10' Section Ladder Tray Provide & Install Horiz. Cable Mgmt	3		
134	(Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu)	2		
	Provide & Install Vert. Cable Mgmt			
135	(Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	2		
136	Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	1		
137	Provide And Install Fiber Patch Panel (24 Pt)	4		
138	Provide & Install 12 Strand SM Fiber (300 Ft.) Osp (Material & Labor Included) St/Sc/Lc Terminations On Both Sides. This Includes Aerial Cable Installation	1		
139	Fiber Jumper (3 Mtrs., 50 Micron, Gray, Mm St-Lc)	8		
140	Provide & Install 48 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Patch Panel Provide & Install Single Cat 6A Page Oty (24 To 100) (0.150 Ft.) Planum (Material & Labor Instituted)	5 25		
L41 L42	Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included) Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)	25		
L43	Cat 6 Jumper (3 Mtrs, Gray)	100		
144	J Hooks (Supply And Install)	2250	LINIT	TOT
	Portable Building #1 Connection - Wireless Bridge	QTY	UNIT COST	COS
145	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			
146	Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	2		
L47 L48	Provide & Install 24 Port Cat 6A Patch Panel Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	1 12		
149	Cat 6 Jumper (3 Mtrs, Gray)	24		
L50	Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	2		
51	Install PA Speaker (Drop Tile) (Labor Only)	1		
L52 L53	Install Network Switch (owner provided, bidder to install and verify port connectivity) Install IP phones (owner provided, bidder to install and verify port connectivity	2		
	Portable Building #2 Connection - Wireless Bridge	QTY	UNIT	TOT
.54	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.		COST	COS
.55	Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	2		
.56	Provide & Install 24 Port Cat 6A Patch Panel	1		
57	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		
158 159	Cat 6 Jumper (3 Mtrs, Gray) Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	24		
160	Install PA Speaker (Drop Tile) (Labor Only)	2		
161	Install Network Switch (owner provided, bidder to install and verify port connectivity)	1		

162	Install IP phones (owner provided, bidder to install and verify port connectivity	2		
	Portable Building #3 Connection - Wireless Bridge	QTY	UNIT	TOTAL
163	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.		C031	CO31
164	Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	2		
165	Provide & Install 24 Port Cat 6A Patch Panel	1		
166	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		
167	Cat 6 Jumper (3 Mtrs, Gray)	24		
168 169	Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP) Install PA Speaker (Drop Tile) (Labor Only)	2 2		
170	Install Network Switch (owner provided, bidder to install and verify port connectivity)	1		
171	Install IP phones (owner provided, bidder to install and verify port connectivity	2		
	Portable Building #4 Connection - Wireless Bridge	QTY	UNIT	TOTAL
172	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			
173	Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	2		
174	Provide & Install 24 Port Cat 6A Patch Panel	1		
175	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		
176	Cat 6 Jumper (3 Mtrs, Gray)	24		
177	Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	2		
178	Install PA Speaker (Drop Tile) (Labor Only)	2		
179 180	Install Network Switch (owner provided, bidder to install and verify port connectivity) Install IP phones (owner provided, bidder to install and verify port connectivity	2		
100	install in phones (owner provided, bluder to install and verify port connectivity	2	UNIT	TOTAL
	Portable Building #5 Connection - Wireless Bridge	QTY	COST	COST
181	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			
182	Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	2		
183	Provide & Install 24 Port Cat 6A Patch Panel	1		
184	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		
185	Cat 6 Jumper (3 Mtrs, Gray)	24		
186	Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	2		
187	Install PA Speaker (Drop Tile) (Labor Only)	2		1
188 189	Install Network Switch (owner provided, bidder to install and verify port connectivity) Install IP phones (owner provided, bidder to install and verify port connectivity	2		-
189			UNIT	TOTAL
100	Portable Building #6 Connection - Wireless Bridge	QTY	COST	COST
190	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			1
191	Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	2		
192	Provide & Install 24 Port Cat 6A Patch Panel	1		
193	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		1
194	Cat 6 Jumper (3 Mtrs, Gray) Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	24		
195 196	Install PA Speaker (Drop Tile) (Labor Only)	2		
197	Install Network Switch (owner provided, bidder to install and verify port connectivity)	1		-
198	Install IP phones (owner provided, bidder to install and verify port connectivity	2		
	Portable Building Connection #7 - Wireless Bridge	QTY	UNIT	TOTAL
199	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.	1	COST	COST
		2		
200 201	Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details) Provide & Install 24 Port Cat 6A Patch Panel	1		+
201	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		+
203	Cat 6 Jumper (3 Mts, Gray)	24		
204	Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	2		
205	Install PA Speaker (Drop Tile) (Labor Only)	2		
206	Install Network Switch (owner provided, bidder to install and verify port connectivity)	1		
207	Install IP phones (owner provided, bidder to install and verify port connectivity	2		
	Other Campus Cabling Items	QTY	UNIT	TOTAL
208	Provide & Install Conduit (1") - 10' Section (Including All Necessary Connectors, Bends, Etc.)	45	COST	COST
209	Provide & Install Conduit (2") - 10' Section (Including All Necessary Connectors, Bends, Etc.)	45	1	
210	Install (Wap) Wireless Access Point - Interior (Labor Only)	250		
211	Install PA Speaker (Drop Tile) (Labor Only)	100		
212	install PA Speaker (Concrete, Brick, Sheetrock,Etc) (Labor Only)	25		
213	install PA Horn - Exterior (Concrete, Brick, Sheetrock,Etc) (Labor Only)	20		
214	Project Mgmt - Cabling Of Large School Campus	1		
	Other Billable Items Anticipated By Bidder for Complete Campus Cabling	QTY	UNIT	TOTAL
	Note: Bidders should add any additional items that they consider necessary for completion of a campus wiring project			2031
				
	TOTAL COST ESTIMATE FOR THIS PROJECT			

Item	Pricing Example #5 Campus Repair (estimate 1 hour for each repair item listed)			
	Campus #1	QTY	UNIT	TOTAL
1	Data Drop Troubleshooting & Repair (NTE New Cable Drop Installation Cost)	10		
2	AP Cabling Troubleshooting & Repair (NTE New Cable Drop Installation Cost)	15		
3	PA speaker Troubleshooting & Repair (NTE New Installation Cost)	20		
4	Fiber Troubleshooting & Repair (NTE New Installation Cost) (SM or MM)	3		
5	Wireless Bridge Link Troubleshooting & Repair (NTE New Installation Cost,)	2		
6	Reloc. Existing Rack (With Equipment Installed)	1		<u> </u>
7	Bidder should add line items for any additional charges anticipated (trip/travel, hourly, etc.			
	Campus #2 (estimate 1 hour for each repair)	QTY	UNIT COST	TOTAL
8	Data Drop Troubleshooting & Repair (NTE New Cable Drop Installation Cost)	20		
9 10	AP Cabling Troubleshooting & Repair (NTE New Cable Drop Installation Cost) PA speaker Troubleshooting & Repair (NTE New Installation Cost)	20		-
11	Fiber Troubleshooting & Repair (NTE New Installation Cost) Fiber Troubleshooting & Repair (NTE New Installation Cost) (SM or MM)	15		1
12	Wireless Bridge Link Troubleshooting & Repair (NTE New Installation Cost,)	4		+
13	Reloc. Existing Rack (With Equipment Installed)	2		+
14	Bidder should add line items for any additional charges anticipated (trip/travel, hourly, etc.)	2		
	Campus #3	QTY	UNIT	TOTA
15	Removal/Salvage Of Old Network Equipment - Large School Campus (10 - 15+ closets) - (Switches, Aps, Ups, Pa, Fiber/Copper Panels)	1		
16	Removal Of Old Fiber - Large School Campus (10 - 15+ closets)	1		
17	Bidder should add line items for any additional charges anticipated (trip/travel, hourly, etc.)			

			1	т — —
	C	OTV.	UNIT	TOTAL
	Campus #4	QTY	COST	COST
18	Removal/Salvage Of Old Network Equipment - Medium School (5-10 closets) - (Switches, Aps, Ups, Pa, Fiber/Copper Panels)	1		
19	Removal Of Old Fiber - Medium School (5-10 closets)	1		
20	Bidder should add line items for any additional charges anticipated (trip/travel, hourly, etc.)			
	TOTAL COST ESTIMATE FOR THIS PROJECT			<u></u>
	TOTAL COST ESTIMATE FOR THIS PROJECT			