



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

November 28, 2018

Item 1: Layout of Appendix A

Item 1:

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

Item	Description			
HORIZONTAL CABLING		Labor	Materials	Total Cost
<i>All Cabling services should include testing, verification, reporting at no extra charge.</i>				
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)			

	<u>RISER & TIE CABLES - FIBER</u>	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)			
	<u>RISER & TIE CABLES - COPPER</u>	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)			
	<u>NETWORK CLOSET BUILD OUT / RENNOVATION</u>	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			
	<u>OTHER CABLING SERVICES</u>	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)			
	<u>DEMOLITION SERVICES</u>	Labor	Materials	Total Cost

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		
	<u>ADDITIONAL SERVICES</u>	Labor	Materials	Total Cost
	<i>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.</i>			
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)			
	<u>OTHER BILLING PREFERENCES</u>	Labor	Materials	Total Cost
	<i>AISD prefers that costs comply with these policies. Bidders should confirm that their pricing is in compliance or provide detailed explanation of exceptions.</i>			
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		
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 (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	Provide & Install Grounding Bus Bar (Labor Only)	1		
19	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		
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	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.)	15		
76	Install (Wap) Wireless Access Point - Interior (Labor Only)	120		
77	Install PA Speaker (Drop Tile) (Labor Only)	40		
78	Install PA Speaker (Concrete, Brick, Sheetrock,Etc) (Labor Only)	10		
79	Install PA Horn - Exterior (Concrete, Brick, Sheetrock,Etc) (Labor Only)	10		
80	Project Mgmt - Cabling Of Small School Campus	1		
Other Billable Items Anticipated By Bidder for Complete Campus Cabling		QTY	UNIT COST	TOTAL COST
Note: Bidders should add any additional items that they consider necessary for completion of a campus wiring projec				
TOTAL COST ESTIMATE FOR THIS PROJECT				

Item	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		
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 (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	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	Provide & Install Grounding Bus Bar (Labor Only)	1		
19	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Ma	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		

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	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		
	IDF E – 232 data drops, 2 floor standing racks	QTY	UNIT COST	TOTAL COST
65	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1		
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)	4		
71	Provide & Install Vert. Cable Mgmt (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	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)	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		
	IDF F – 232 data drops, 2 floor standing racks	QTY	UNIT COST	TOTAL 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		
85	Provide & Install 10' Section Ladder Tray	3		
86	Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu)	4		
87	Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	4		
88	Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	2		
89	Provide And Install Fiber Patch Panel (24 Pt)	4		
90	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		
91	Fiber Jumper (3 Mtrs.,50 Micron, Gray, Mm St-Lc)	8		
92	Provide & Install 48 Port Cat 6A Patch Panel	5		
93	Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	125		
94	Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)	125		
95	Cat 6 Jumper (3 Mtrs, Gray)	500		
96	J Hooks (Supply And Install)	11250		
	IDF G – 43 data drops, 1 floor standing rack	QTY	UNIT COST	TOTAL COST
97	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1		
98	Provide & Install Grounding Bus Bar (Labor Only)	1		
99	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max	1		
100	Provide & Install 19" Rack Chatsworth # 55053-X03, Silver)	1		
101	Provide & Install 10' Section Ladder Tray	3		
102	Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu)	2		
103	Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	2		
104	Provide & Install Rack Mount Power Strips (Tripplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	1		
105	Provide And Install Fiber Patch Panel (24 Pt)	4		
106	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		
107	Fiber Jumper (3 Mtrs.,50 Micron, Gray, Mm St-Lc)	8		
108	Provide & Install 48 Port Cat 6A Patch Panel	5		
109	Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	25		
110	Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)	25		
111	Cat 6 Jumper (3 Mtrs, Gray)	100		
112	J Hooks (Supply And Install)	2250		

		QTY	UNIT COST	TOTAL COST
Portable Building #1 Connection - Wireless Bridge				
113	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			
114	Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	2		
115	Provide & Install 24 Port Cat 6A Patch Panel	1		
116	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		
117	Cat 6 Jumper (3 Mtrs, Gray)	24		
118	Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	2		
119	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		
Portable Building #2 Connection - Wireless Bridge				
122	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			
123	Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	2		
124	Provide & Install 24 Port Cat 6A Patch Panel	1		
125	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		
126	Cat 6 Jumper (3 Mtrs, Gray)	24		
127	Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	2		
128	Install PA Speaker (Drop Tile) (Labor Only)	2		
129	Install Network Switch (owner provided, bidder to install and verify port connectivity)	1		
130	Install IP phones (owner provided, bidder to install and verify port connectivity)	2		
Portable Building #3 Connection - Wireless Bridge				
131	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			
132	Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	2		
133	Provide & Install 24 Port Cat 6A Patch Panel	1		
134	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		
135	Cat 6 Jumper (3 Mtrs, Gray)	24		
136	Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	2		
137	Install PA Speaker (Drop Tile) (Labor Only)	2		
138	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		
Portable Building #4 Connection - Wireless Bridge				
140	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			
141	Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	2		
142	Provide & Install 24 Port Cat 6A Patch Panel	1		
143	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		
144	Cat 6 Jumper (3 Mtrs, Gray)	24		
145	Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	2		
146	Install PA Speaker (Drop Tile) (Labor Only)	2		
147	Install Network Switch (owner provided, bidder to install and verify port connectivity)	1		
148	Install IP phones (owner provided, bidder to install and verify port connectivity)	2		
Portable Building #5 Connection - Wireless Bridge				
149	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			
150	Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	2		
151	Provide & Install 24 Port Cat 6A Patch Panel	1		
152	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		
153	Cat 6 Jumper (3 Mtrs, Gray)	24		
154	Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	2		
155	Install PA Speaker (Drop Tile) (Labor Only)	2		
156	Install Network Switch (owner provided, bidder to install and verify port connectivity)	1		
157	Install IP phones (owner provided, bidder to install and verify port connectivity)	2		
Portable Building #6 Connection - Wireless Bridge				
158	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			
159	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		
161	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		
162	Cat 6 Jumper (3 Mtrs, Gray)	24		
163	Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	2		
164	Install PA Speaker (Drop Tile) (Labor Only)	2		
165	Install Network Switch (owner provided, bidder to install and verify port connectivity)	1		
166	Install IP phones (owner provided, bidder to install and verify port connectivity)	2		
Other Campus Cabling Items				
167	Provide & Install Conduit (1") - 10' Section (Including All Necessary Connectors, Bends, Etc.)	30		
168	Provide & Install Conduit (2") - 10' Section (Including All Necessary Connectors, Bends, Etc.)	30		
169	Install (Wap) Wireless Access Point - Interior (Labor Only)	200		
170	Install PA Speaker (Drop Tile) (Labor Only)	70		
171	Install PA Speaker (Concrete, Brick, Sheetrock, Etc) (Labor Only)	15		
172	Install PA Horn - Exterior (Concrete, Brick, Sheetrock, Etc) (Labor Only)	15		
173	Project Mgmt - Cabling Of Mid-Size School Campus	1		
Other Billable Items Anticipated By Bidder for Complete Campus Cabling				
	<i>Note: Bidders should add any additional items that they consider necessary for completion of a campus wiring project</i>			
TOTAL COST ESTIMATE FOR THIS PROJECT				

Item	Pricing Example #3 - Campus Installation	QTY	UNIT COST	TOTAL COST
	MDF A – 77 data drops, 3 floor standing racks (1 GAATN, 1 station cabling, 1 core equipment/backbone cabling)			
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		
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 (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 – 250 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	Provide & Install Grounding Bus Bar (Labor Only)	1		
19	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 – 250 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		
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 (Triplite 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		
	IDF E – 200 data drops, 2 floor standing racks	QTY	UNIT COST	TOTAL COST
65	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1		
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)	4		
71	Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	4		
72	Provide & Install Rack Mount Power Strips (Triplite 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	Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)	100		
79	Cat 6 Jumper (3 Mtrs, Gray)	400		
80	J Hooks (Supply And Install)	9000		
	IDF F – 200 data drops, 2 floor standing racks	QTY	UNIT COST	TOTAL 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		
85	Provide & Install 10' Section Ladder Tray	3		
86	Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu)	4		
87	Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	4		
88	Provide & Install Rack Mount Power Strips (Triplite Isobar12/20Ultra Surgesuppressor 12Outlet 20A 10-Rear 2-Front Rackmnt 15' Power Cord)	2		
89	Provide And Install Fiber Patch Panel (24 Pt)	4		
90	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		
91	Fiber Jumper (3 Mtrs.,50 Micron, Gray, Mm St-Lc)	8		
92	Provide & Install 48 Port Cat 6A Patch Panel	5		
93	Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	100		
94	Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)	100		
95	Cat 6 Jumper (3 Mtrs, Gray)	400		
96	J Hooks (Supply And Install)	9000		
	IDF G – 250 data drops, 2 floor standing racks	QTY	UNIT COST	TOTAL COST
97	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1		
98	Provide & Install Grounding Bus Bar (Labor Only)	1		
99	Provide & Install #6 Awg Stranded Cable For Grounding Bus Bar And Racks (Material & Labor Included) 30' Max	1		
100	Provide & Install 19" Rack Chatsworth # 55053-X03, Silver)	2		
101	Provide & Install 10' Section Ladder Tray	3		
102	Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu)	4		
103	Provide & Install Vert. Cable Mgmt (Chatsworth # 30162-703 2- Sided Vertical Cable Mgr)	4		

104	Provide & Install Rack Mount Power Strips (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	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		
107	Fiber Jumper (3 Mtrs.,.50 Micron, Gray, Mm St-Lc)	2		
108	Provide & Install 48 Port Cat 6A Patch Panel	5		
109	Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	125		
110	Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)	125		
111	Cat 6 Jumper (3 Mtrs, Gray)	500		
112	J Hooks (Supply And Install)	11250		
	IDF H – 200 data drops, 2 floor standing racks	QTY	UNIT COST	TOTAL COST
113	Provide & Install 4'X8' Fire Rated Plywood Board Painted (Material & Labor Included)	1		
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	1		
116	Provide & Install 19" Rack Chatsworth # 55053-X03, Silver)	2		
117	Provide & Install 10' Section Ladder Tray	3		
118	Provide & Install Horiz. Cable Mgmt (Chatsworth # - 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu)	4		
119	Provide & Install Vert. Cable Mgmt (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	Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)	100		
127	Cat 6 Jumper (3 Mtrs, Gray)	400		
128	J Hooks (Supply And Install)	9000		
	IDF I – 43 data drops, 1 floor standing rack	QTY	UNIT COST	TOTAL COST
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		
132	Provide & Install 19" Rack Chatsworth # 55053-X03, Silver)	1		
133	Provide & Install 10' Section Ladder Tray	3		
134	Provide & Install Horiz. Cable Mgmt (Chatsworth # 30530-719 2- Sided Horizontal Cable Mgr 19" 2Rmu)	2		
135	Provide & Install Vert. Cable Mgmt (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	5		
141	Provide & Install Single Cat 6A Drop Qty (21 To 100) (0-150 Ft.) Plenum (Material & Labor Included)	25		
142	Provide & Install Single Cat 6A Drop Qty (1) (151-300 Ft.) Plenum (Material & Labor Included)	25		
143	Cat 6 Jumper (3 Mtrs, Gray)	100		
144	J Hooks (Supply And Install)	2250		
	Portable Building #1 Connection - Wireless Bridge	QTY	UNIT COST	TOTAL COST
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		
147	Provide & Install 24 Port Cat 6A Patch Panel	1		
148	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		
149	Cat 6 Jumper (3 Mtrs, Gray)	24		
150	Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	2		
151	Install PA Speaker (Drop Tile) (Labor Only)	2		
152	Install Network Switch (owner provided, bidder to install and verify port connectivity)	1		
153	Install IP phones (owner provided, bidder to install and verify port connectivity)	2		
	Portable Building #2 Connection - Wireless Bridge	QTY	UNIT COST	TOTAL COST
154	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			
155	Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	2		
156	Provide & Install 24 Port Cat 6A Patch Panel	1		
157	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		
158	Cat 6 Jumper (3 Mtrs, Gray)	24		
159	Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	2		
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 COST	TOTAL COST
163	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			
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	Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	2		
169	Install PA Speaker (Drop Tile) (Labor Only)	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 COST	TOTAL COST
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	Install Network Switch (owner provided, bidder to install and verify port connectivity)	1		
180	Install IP phones (owner provided, bidder to install and verify port connectivity)	2		
Portable Building #5 Connection - Wireless Bridge		QTY	UNIT COST	TOTAL 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		
188	Install Network Switch (owner provided, bidder to install and verify port connectivity)	1		
189	Install IP phones (owner provided, bidder to install and verify port connectivity)	2		
Portable Building #6 Connection - Wireless Bridge		QTY	UNIT COST	TOTAL COST
190	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			
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		
194	Cat 6 Jumper (3 Mtrs, Gray)	24		
195	Install (Wap) Wireless Access Point - Interior (Labor Only) (owner provided AP)	2		
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 COST	TOTAL COST
199	These items are required for connectivity of a portable. AISD prefers a single set price per portable for all installation services.			
200	Installation of wireless bridge (labor & installation materials, AP provided separately, exterior building/portable, see technical specifications for details)	2		
201	Provide & Install 24 Port Cat 6A Patch Panel	1		
202	Provide & Install Single Cat 6A Drop Qty (12) (0-60 Ft.) Plenum (Material & Labor Included)	12		
203	Cat 6 Jumper (3 Mtrs, 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 COST	TOTAL COST
208	Provide & Install Conduit (1") - 10' Section (Including All Necessary Connectors, Bends, Etc.)	45		
209	Provide & Install Conduit (2") - 10' Section (Including All Necessary Connectors, Bends, Etc.)	45		
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 COST	TOTAL COST
<i>Note: Bidders should add any additional items that they consider necessary for completion of a campus wiring project</i>				
TOTAL COST ESTIMATE FOR THIS PROJECT				

	Campus #4	QTY	UNIT COST	TOTAL 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	<i>Bidder should add line items for any additional charges anticipated (trip/travel, hourly, etc.)</i>			
	TOTAL COST ESTIMATE FOR THIS PROJECT			