

Adobe Acres Elementary

Electronics Summary

Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 75
Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required-12
Commscope/Uniprise Cat 6 Data Drops: Total required- 37

MDF 1.0- RM.102 Install (11) Cat 6 Yellow network drops and (1) Cat 6 48 port patch panel.

Lounge Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP

Work Room Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP

Sub IDF 1.01- RM.105 (3) Cat 6 Yellow network drops.

RM. 105 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP

RM. 109 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP

RM. 113 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP

Sub IDF 1.02-RM. 101 Remove HP WAP/Replace w/ Aruba WAP.

IDF 2.0- RM. U133: Install (1) Cat 6 48 port patch panel.

Sub IDF 2.01- RM. C-10: Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP

Sub IDF 2.02- RM. C-11: Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 2.03- RM. C-13: Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP

Sub IDF 2.04- RM. C-14: Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 2.05- RM. C-15: Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 2.06- RM. C-16: Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 2.07- RM. C-17: Remove HP WAP/Replace w/ Aruba WAP.

IDF 3.0- RM. U111: Install (1) Cat 6 48 port patch panel.

Sub IDF 3.01- CAFETERIA: Remove HP WAP/Replace w/ Aruba WAP.

IDF 4.0- RM. 122: Install (1) Cat 6 48 port patch panel.

Stack Area 126 Remove HP WAP/Replace w/ Aruba WAP.

Reading 120 Remove HP WAP/Replace w/ Aruba WAP.

IDF 5.0- RM. P101: Install (1) Cat 6 Yellow network drop and (1) Cat 6 48 port patch panel.

RM. P103 Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 6.0- RM. 16: Remove HP WAP/Replace w/ Aruba WAP. Install (1) Cat 6 48 port patch panel.

Sub IDF 6.01- RM. 15: Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 13 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 6.02- RM. 14: Remove HP WAP/Replace w/ Aruba WAP.

IDF 7.0- RM. 7: Install (1) Cat 6 48 port patch panel. Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 7.01-RM. 5: Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 7.02-RM. 6: Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 7.03-RM. 8: Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 8.0- RM. 4: Install (1) Cat 6 48 port patch panel. Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 8.01-RM. 3: Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 8.02-RM. 1: Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 8.03-RM. 2: Remove HP WAP/Replace w/ Aruba WAP.

IDF 9.0- RM. 12: Install (1) Cat 6 48 port patch panel. Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 9.01-RM. C-107: Install (1) Cat 6 Data drop.

RM. 11 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 9.02-RM. A-114: Install (1) Cat 6 Data drop.

RM. 9 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 9.03-RM. 10: Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 10.0-RM. 20: Install (1) Cat 6 48 port patch panel. Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 10.01-RM. 19: Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 10.02-RM. 17: Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 10.03-RM. 18: Remove HP WAP/Replace w/ Aruba WAP.

IDF 11.0- RM. TELECOM 1A: Install (4) Cat6 Yellow network drops and (1) Cat 6 48 port patch panel.

RM. ART/MUSIC Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. K-1 Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. K-2 Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. K-3 Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 12.0- RM. TELECOM 10: Install (4) Cat6 Yellow network drops and (1) Cat 6 48 port patch panel.

RM. K-4 Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. K-5 Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. K-6 Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Portables

Sub IDF DP-5- Install (1) Cat 6 Data Drop/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF D 475- Install (1) Cat 6 Data Drop/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF D 476- Install (1) Cat 6 Data Drop/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF SC-789- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-357- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-18- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-704- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF NMD-001- Install (1) Cat 6 Data Drop/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF D 461- Install (1) Cat 6 Data Drop/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF D 372- Install (2) Cat 6 Data Drops/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF D 178- Install (2) Cat 6 Data Drops/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF SC-803- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-712- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of the room, at 10' a.f.f. per APS District Standards. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold applications, which may include complying with fire blocking requirements per NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. All WAP patch cords must be labeled with TO

port designation. Example: 2.0-1-12. Coordinate with APS IT on label installation requirements. Clean all areas after work has been performed.

Note: 1- Cat 6 Patch Cord per WAP, 1- Cat 6 Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod and swivel application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements.

Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Alamosa Elementary

Electronics Summary

Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 69
Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required-10
Commscope/Uniprise Cat 6 Data Drops: Total required- 37

MDF 1.0- RM. M-105 Install (10) Cat 6 Yellow network drop and (1) Cat 6 48 port patch panel.

Library Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 2.0- MULTI-PURPOSE Remove HP WAP/Replace w/ Aruba WAP. Install (1) Cat 6 48 port patch panel.

IDF 3.0- RM. LOUNGE: Install (1) Cat 6 Yellow network drop, and (1) Cat 6 48 port patch panel.

Principal Remove HP WAP/Replace w/ Aruba WAP.

Office 104 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 4.0- RM. R-3: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install (1) Cat 6 48 port patch panel.

R-1 Remove HP WAP/Replace w/ Aruba WAP.

R-4 Remove HP WAP/Replace w/ Aruba WAP.

R-12 Remove HP WAP/Replace w/ Aruba WAP.

IDF 5.0- RM. C101: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install (1) Cat 6 48 port patch panel.

R-115 Remove HP WAP/Replace w/ Aruba WAP.

R-117 Remove HP WAP/Replace w/ Aruba WAP.

R-119 Remove HP WAP/Replace w/ Aruba WAP.

IDF 6.0- RM. R-8: Install (2) Cat 6 Data Drops/ Move WAP to center of room/Replace with Aruba WAP. Install (1) Cat 6 48 port patch panel.

R-5 Remove HP WAP/Replace w/ Aruba WAP.

R-7 Remove HP WAP/Replace w/ Aruba WAP.

R-6 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 7.0- RM. R-16: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install (1) Cat 6 48 port patch panel.

R-13 Remove HP WAP/Replace w/ Aruba WAP.

R-14 Remove HP WAP/Replace w/ Aruba WAP.

R-15 Remove HP WAP/Replace w/ Aruba WAP.

IDF 8.0- RM. 17B: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install (1) Cat 6 48 port patch panel.

R-18 Remove HP WAP/Replace w/ Aruba WAP.

R-19 Remove HP WAP/Replace w/ Aruba WAP.

R-20 Remove HP WAP/Replace w/ Aruba WAP.

IDF 9.0- GYM STORAGE: Install (1) Cat 6 48 port patch panel. Remove HP WAP/Replace w/ Aruba WAP.

IDF 10.0- RM. TELECOM 129: Install (5) Cat 6 Data Drops. Install (1) Cat 6 48 port patch panel.

RM.102 Remove HP WAP/Replace w/ Aruba WAP.

RM.105 Remove HP WAP/Replace w/ Aruba WAP.

RM. 110 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 113 Remove HP WAP/Replace w/ Aruba WAP

RM. 116 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 117 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 122 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 127 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 7.01-RM. 5: Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 7.02-RM. 6: Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 7.03-RM. 8: Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 8.0- RM. 4: Install (1) Cat 6 48 port patch panel. Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 8.01-RM. 3: Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 8.02-RM. 1: Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 8.03-RM. 2: Remove HP WAP/Replace w/ Aruba WAP.

IDF 9.0- RM. 12: Install (1) Cat 6 48 port patch panel. Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 9.01-RM. C-107: Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 11 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 9.02-RM. A-114: Install (1) Cat 6 Data drop58/ Move WAP to center of room/Replace with Aruba WAP.

RM. 9 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 9.03-RM. 10: Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 10.0-RM. 20: Install (1) Cat 6 48 port patch panel. Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 10.01-RM. 19: Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 10.02-RM. 17: Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 10.03-RM. 18: Remove HP WAP/Replace w/ Aruba WAP.

Portables

Sub IDF SC-739- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-600- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-446- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-771- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-787- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-511- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-764- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-492- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-273- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SR-7- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-176- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-80- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-71- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-628- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF OT-1- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-216- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF FK-18- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF D-427- Install (1) Cat 6 Data Drop/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF D-232- Install (1) Cat 6 Data Drop/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF D-81- Install (1) Cat 6 Data Drop/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF D-478- Install (1) Cat 6 Data Drop/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF D-477- Install (1) Cat 6 Data Drop/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of the room, at 10' a.f.f. per APS District Standards. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold applications, which may include complying with fire blocking requirements per NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. All WAP patch cords must be labeled with TO port designation. Example: 2.0-1-12. Coordinate with APS IT on label installation requirements. Clean all areas after work has been performed.

Note: 1- Cat 6 Patch Cord per WAP, 1- Cat 6 Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod and swivel application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements.

Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Armijo Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-4
HP Power Supply (JD362B) Total Required-8
Aruba 48G Copper Switch (JL322A) Total Required- 5
Aruba 24G Copper Switch (JL320A) Total Required- 10
Aruba Power Supply (JL087A) Total required-15
Aruba Stacking Module (JL325A) Total Required- 2
Aruba Stacking Cable (J9734A) Total Required- 1
Fiber SFP LC SX (JD118B) Total Required- 23
Fiber SFP LC SX (J4858C) Total Required-15
Aruba WAP 515 (Q9H63A) Total Required- 6

Wireless Summary

Install (6) Cat 6 Data Drops in center of rooms for new Aruba 515 WAP's
Install (30) Cat 6 Data Drops in center of rooms / Relocate existing WAP.
Provide (36) Ceiling Mounts for Aruba WAP's.
Note: Coordinate with APS IT prior to installation. Refer to
APS IT wireless installation specifications requirements.

MDF 1.0- Workroom: Install (1) HP Fiber Switch (JG933A), and (10) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.01- Computer Lab: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.02- Computer Lab: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0- Storage: Install (1) HP Fiber Switch (JG933A), and (5) Fiber SFP's LC SX (JD118B), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 2.01- Cafe: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 2.03- RM. 103: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- RM. 200: Install (1) HP Fiber Switch (JG933A), and (7) Fiber SFP's LC SX (JD118B), Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 3.02- RM. 203: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 3.03- RM. 204: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 3.04- RM. 107: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 3.05- RM. 106: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- RM. 300: Install (2) Aruba 24G Copper Switches (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 5.0- 401: Install (1) HP Fiber Switch (JG933A), and (6) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- RM. 522: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Atrisco Heritage Academy High

Electronics Summary

HP Fiber Switch (JG933A) Total Required-5
HP Power Supply (JD362B) Total Required-10
Aruba 48G Copper Switch (JL322A) Total Required- 58
Aruba 24G Copper Switch (JL320A) Total Required- 7
Aruba Power Supply (JL087A) Total required-65
Aruba Stacking Module (JL325A) Total Required- 70
Aruba Stacking Cable (J9734A) Total Required- 33
Fiber SFP LC SX (JD118B) Total Required- 20
Fiber SFP LC SX (J4858C) Total Required-33

MDF 1.0- G-107: Install (5) HP Fiber Switches (JG933A), and (20) Fiber SFP's LC SX (JD118B).

IDF 2.0- F1-117: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), Install (2) Aruba 48G Copper Switches (JL322A), (4) Aruba Stacking Modules (JL325A), and (2) Aruba Stacking Cables (J9734A).

Sub IDF 2.01- Prep F1-121: Install (4) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (6) Aruba Stacking Modules (JL325A), and (3) Aruba Stacking Cables (J9734A).

IDF 3.0- F1-210: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), Install (2) Aruba 48G Copper Switches (JL322A), (4) Aruba Stacking Modules (JL325A), and (2) Aruba Stacking Cables (J9734A).

Sub IDF 3.01- F1-214: Install (3) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (4) Aruba Stacking Modules (JL325A), and (2) Aruba Stacking Cables (J9734A).

IDF 4.0- F1-309: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 4.01-F1-313: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 5.0- E1-112B: Install (3) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (4) Aruba Stacking Modules (JL325A), and (2) Aruba Stacking Cables (J9734A).

Sub IDF 5.01-E1-119: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 5.02-E2-101: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 5.03-TECH LAB E-111: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0-E2-212: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 6.01-E2-219: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 6.02-E2-223: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0-A4-112: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 7.01-CU-107: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 8.0-A2-107: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 9.0-A4-201: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 10.0-H-202: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 11.0-A1-312: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 12.0-B2-172: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 13.0.0-B2-116: Install (3) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (4) Aruba Stacking Modules (JL325A), and (2) Aruba Stacking Cables (J9734A).

IDF 14.0.0-C1-105: Install (3) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (4) Aruba Stacking Modules (JL325A), and (2) Aruba Stacking Cables (J9734A).

Sub IDF 14.01-B2-102: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 15.0.-C2-119: Install (4) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (6) Aruba Stacking Modules (JL325A), and (3) Aruba Stacking Cables (J9734A).

IDF 16.0.-B1-129: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 17.0.-D1-113: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 17.01-D1-121: Install (2) Aruba 48G Copper Switches (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (4) Aruba Stacking Modules (JL325A), and (2) Aruba Stacking Cable (J9734A).

Sub IDF 17.02-D2-103: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 17.03-D1-123: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 17.04-D3-114: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 18.0.-D2-214: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 18.01-D2-222: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 18.02-D2-211: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Bel-Air Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-1
HP Power Supply (JD362B) Total Required-2
Aruba 48G Copper Switch (JL322A) Total Required- 7
Aruba 24G Copper Switch (JL320A) Total Required- 10
Aruba Power Supply (JL087A) Total required-17
Aruba Stacking Module (JL325A) Total Required- 2
Aruba Stacking Cable (J9734A) Total Required- 1
Fiber SFP LC SX (JD118B) Total Required- 16
Fiber SFP LC SX (J4858C) Total Required-38

Wireless Summary

Install (41) Cat 6 Data Drops in center of rooms / Relocate existing WAP.

Provide (41) Ceiling Mounts for Aruba WAP's.

Note: Coordinate with APS IT prior to installation. Refer to APS IT wireless installation specifications requirements.

MDF 1.0- No Room #: Install (1) HP Fiber Switch (JG933A), and (16) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 1.01- RM. 303: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0- RM. 306: Install (1) Aruba 48G Copper Switch (JL322A), (4) Fiber SFP's LC SX (J4858C).

Sub IDF 2.01- RM. 305: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- Work RM.: Install (1) Aruba 24G Copper Switch (JL320A), (4) Fiber SFP's LC SX (J4858C).

IDF 4.0- RM. 211: Install (1) Aruba 24G Copper Switch (JL320A), (4) Fiber SFP's LC SX (J4858C).

IDF 5.0- 207: Install (1) Aruba 48G Copper Switch (JL322A), (2) Fiber SFP's LC SX (J4858C).

Sub IDF 5.01- RM. 208: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- Admin: Install (1) Aruba 24G Copper Switch (JL320A), (3) Fiber SFP's LC SX (J4858C).

Sub IDF 6.01- RM. 202: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- Work Room: Install (1) Aruba 48G Copper Switch (JL322A), (2) Fiber SFP's LC SX (J4858C).

IDF 8.0- 103: Install (1) Aruba 24G Copper Switch (JL322A), (4) Fiber SFP's LC SX (J4858C).

IDF 9.0- No Rm. #: Install (1) Aruba 48G Copper Switch (JL322A), (4) Fiber SFP's LC SX (J4858C).

IDF 10.0- RM 109: Install (1) Aruba 24G Copper Switch (JL320A), (4) Fiber SFP's LC SX (J4858C).

IDF 11.0 Gym Storage: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 12.0- RM. 113: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking

team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Chelwood Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-2

HP Power Supply (JD362B) Total Required-4

Aruba 48G Copper Switch (JL322A) Total Required- 10
Aruba 24G Copper Switch (JL320A) Total Required- 6
Aruba Power Supply (JL087A) Total required-16
Aruba Stacking Module (JL325A) Total Required- 6
Aruba Stacking Cable (J9734A) Total Required- 3
Fiber SFP LC SX (JD118B) Total Required- 19
Fiber SFP LC SX (J4858C) Total Required-14

Wireless Summary

Install (29) Cat 6 Data Drops in center of room / Relocate existing WAP.

Provide (29) Ceiling Mounts

Note: Coordinate with APS IT prior to installation. Refer to
APS IT wireless installation specifications requirements.

MDF 1.0- RM. 104: Install (1) HP Fiber Switch (JG933A), and (8) Fiber SFP's LC SX (JD118B), (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 2.0- RM. 209: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- Library Office: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- Tele. U-101: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- Tele. U-183: Install (1) HP Fiber Switch (JG933A), and (11) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- RM. 105: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- RM. 205B: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 8.0- RM. 212B: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Portables

Sub IDF SC16- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF SC556- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D494 Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D493 Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D491 Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D492 Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Collet Park Elementary

Electronics Summary

Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 45

Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required-11

Commscope/Uniprise Cat 6 Data Drops: Total required- 21

MDF 1.0- NO RM. # Install (9) Cat 6 Yellow network drop and (1) Cat 6 48 port patch panel.

Library Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 2.0- RM. 305 Install (1) Cat 6 Yellow network drop and (1) Cat 6 48 port patch panel. Remove HP WAP/Replace w/ Aruba WAP.

Rm. 303 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 304 Remove HP WAP/Replace w/ Aruba WAP.

IDF 3.0- RM. 301: Install (1) Cat 6 Yellow network drop, and (1) Cat 6 48 port patch panel. Remove HP WAP/Replace w/ Aruba WAP.

Rm. 302 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 4.0- RM. 311: Install (2) Cat 6 Data Drops/ Move WAP to center of room/Replace with Aruba WAP. Install (1) Cat 6 48 port patch panel.

Rm. 308 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 309 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 310 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 312 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 313 Remove HP WAP/Replace w/ Aruba WAP.

IDF 5.0- KITCHEN: Install (1) Cat 6 Data Drop. Install (1) Cat 6 48 port patch panel.

Cafeteria Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 6.0- NO RM. #: Install (3) Cat 6 Data Drops. Install (1) Cat 6 48 port patch panel.

Rm. No # Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. No # Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. No # Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 7.0- RM. 106: Install (2) Cat 6 Data Drops/ Move WAP to center of room/Replace with Aruba WAP. Install (1) Cat 6 48 port patch panel.

Rm. 105 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 107 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 108 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 8.0- RM. 203: Install (2) Cat 6 Data Drops/ Move WAP to center of room/Replace with Aruba WAP. Install (1) Cat 6 48 port patch panel.

Rm. 201 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 202 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 204 Remove HP WAP/Replace w/ Aruba WAP.

IDF 9.0- RM. 102: Install (2) Cat 6 Data Drops/ Add Aruba WAP to center of room.
Install (1) Cat 6 48 port patch panel.

Rm. 101 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 103 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 104 Remove HP WAP/Replace w/ Aruba WAP.

IDF 10.0- NO RM. #: Install (1) Cat 6 Data Drop. Install (1) Cat 6 48 port patch panel.

Gym Office Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 11.0- NO RM. #: Install (6) Cat 6 Data Drops. Install (1) Cat 6 48 port patch panel.

Rm. No # Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. No # Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. No # Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. No # Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. No # Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. No # Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of

the room, at 10' a.f.f. per APS District Standards. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold applications, which may include complying with fire blocking requirements per NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. All WAP patch cords must be labeled with TO port designation. Example: 2.0-1-12. Coordinate with APS IT on label installation requirements. Clean all areas after work has been performed.

Note: 1- Cat 6 Patch Cord per WAP, 1- Cat 6 Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod and swivel application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements.

Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Coronado Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-1
HP Power Supply (JD362B) Total Required-2
Aruba 48G Copper Switch (JL322A) Total Required- 5
Aruba 24G Copper Switch (JL320A) Total Required- 1
Aruba Power Supply (JL087A) Total required-6
Aruba Stacking Module (JL325A) Total Required- 2
Aruba Stacking Cable (J9734A) Total Required- 1
Fiber SFP LC SX (JD118B) Total Required- 12
Fiber SFP LC SX (J4858C) Total Required-5

Wireless Summary

Install (16) Cat 6 Data Drops in center of room / Relocate existing WAP.

Provide (16) Ceiling Mounts

Note: Coordinate with APS IT prior to installation. Refer to
APS IT wireless installation specifications requirements.

MDF 1.0- Library: Install (1) HP Fiber Switch (JG933A), and (12) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.01- Library Classroom: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0- TR 143: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 3.0- Rm. 222: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- Gym Storage: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Corrales Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-1
HP Power Supply (JD362B) Total Required-2
Aruba 48G Copper Switch (JL322A) Total Required- 9
Aruba 24G Copper Switch (JL320A) Total Required- 3
Aruba Power Supply (JL087A) Total required-12
Aruba Stacking Module (JL325A) Total Required- 2
Aruba Stacking Cable (J9734A) Total Required- 1
Fiber SFP LC SX (JD118B) Total Required- 15
Fiber SFP LC SX (J4858C) Total Required-11
Aruba WAP 515 (Q9H63A) Total Required- 2

Wireless Summary

Install (2) Cat 6 Data Drops in center of rooms for new Aruba 515 WAP's
Install (36) Cat 6 Data Drops in center of rooms / Relocate existing WAP.
Provide (38) Ceiling Mounts for Aruba WAP's.
Note: Coordinate with APS IT prior to installation. Refer to
APS IT wireless installation specifications requirements.

MDF 1.0- TECH ROOM: Install (1) HP Fiber Switch (JG933A), and (15) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0- ELECTRICAL ROOM IN WORK ROOM (BLDG.1): Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 2.01-CAFETERIA OFFICE: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 2.02- RM. 36: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- RM. 12: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- RM. 18: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Module (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 5.0- RM. 34: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- RM. 31: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- RM. 32: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 8.0- BOOK ROOM: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 9.0- LOUNGE: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Desert Ridge Middle

Electronics Summary

HP Fiber Switch (JG933A) Total Required-2
HP Power Supply (JD362B) Total Required-4
Aruba 48G Copper Switch (JL322A) Total Required- 18
Aruba 24G Copper Switch (JL320A) Total Required- 6
Aruba Power Supply (JL087A) Total required-24
Aruba Stacking Module (JL325A) Total Required- 12
Aruba Stacking Cable (J9734A) Total Required- 6
Fiber SFP LC SX (JD118B) Total Required- 22
Fiber SFP LC SX (J4858C) Total Required-28

MDF 1.0- LIBRARY: Install (1) HP Fiber Switch (JG933A), and (16) Fiber SFP's LC SX (JD118B), (3) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (4) Aruba Stacking Modules (JL325A), (2) Aruba Stacking Cables (J9734A).

Sub IDF 1.01-RM. 201: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.02-RM. 202: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0- ADMIN. STORAGE: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 3.0- OFFICE A105S: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

Sub IDF 3.01-RM. 108: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 4.0- OFFICE A107S: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 4.01-RM. 102: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- GYM: Install (1) HP Fiber Switch (JG933A), and (6) Fiber SFP's LC SX (JD118B), (1) Aruba 24G Copper Switches (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 5.02-RM. 505: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 5.03-RM. 502: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- OFFICE A175: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- RM. 313: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

Sub IDF 7.01-RM. 310: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 7.02-RM. 309: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 8.0- STORAGE: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 8.01-RM. 410: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 8.02-RM. 409: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Dolores Gonzales Elementary

Electronics Summary

Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 53
Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required-6
Commscope/Uniprise Cat 6 Data Drops: Total required- 33

MDF 1.0- NO RM. #: Install (1) Cat 6 48 port patch panel. Install (9) Cat 6 Data Drops.

Work Rm. Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 1.01- RM. 13 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 1.02- RM. 12 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 1.03- RM. 11 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 1.04- RM. 10 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 1.05- LIBRARY Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 2.0- JANITOR CLOSET Install (1) Cat 6 Data Drop. Install (1) Cat 6 48 port patch panel.

Rm. No # Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 2.01- NO RM. #

Rm. 9 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 2.02- RM. 8 Remove HP WAP/Replace w/ Aruba WAP.

IDF 3.0- RM. 7: Install (1) Cat 6 48 port patch panel. Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 3.01- RM. 6 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 3.02- RM. 5 Remove HP WAP/Replace w/ Aruba WAP.

IDF 4.0- RM. TECH OFFICE: Install (7) Cat 6 Data Drops. Install (1) Cat 6 48 port patch panel.

Rm. 117 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 115 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 110 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 109 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 104 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

NURSE OFFICE Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 117 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

OFFICE A103 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 4.01- RM. 1A: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 4.04- RM. 2A: Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 4.05- RM. 3A: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 4.07- RM. 4A: Remove HP WAP/Replace w/ Aruba WAP.

IDF 5.0- RM. ELECTRICAL U209: Install (1) Cat 6 Data Drop. Install (1) Cat 6 48 port patch panel.

GYM Remove HP WAP/Replace w/ Aruba WAP.

GYM OFFICE Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 6.0- RM. LOUNGE: Install (1) Cat 6 48 port patch panel. Remove HP WAP/Replace w/ Aruba WAP.

IDF 7.0- RM. I.T.S. 214: Install (10) Cat 6 Data Drops. Install (1) Cat 6 48 port patch panel.

RM. 203 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 204 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 205 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 206 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 207 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 208 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 220 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 221 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 222 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 223 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 8.0- STORAGE 127:

Rm. Art/Music 126 Remove HP WAP/Replace w/ Aruba WAP.

Portables

Sub IDF SC-841- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-826- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-825- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF NM-007- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF NM-09- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF D-334- Install (1) Cat 6 Data Drop/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of the room, at 10' a.f.f. per APS District Standards. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold applications, which may include complying with fire blocking requirements per NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. All WAP patch cords must be labeled with TO port designation. Example: 2.0-1-12. Coordinate with APS IT on label installation requirements. Clean all areas after work has been performed.

Note: 1- Cat 6 Patch Cord per WAP, 1- Cat 6 Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod and swivel application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements.

Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Duranes Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-1
HP Power Supply (JD362B) Total Required- 2
Aruba 48G Copper Switch (JL322A) Total Required- 12
Aruba 24G Copper Switch (JL320A) Total Required- 4
Aruba Power Supply (JL087A) Total required-16
Aruba Stacking Module (JL325A) Total Required- 2
Aruba Stacking Cable (J9734A) Total Required- 1
Fiber SFP LC SX (JD118B) Total Required- 9

Fiber SFP LC SX (J4858C) Total Required-27

Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 37

Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required-12

Commscope/Uniprise Cat 6 Data Drops: Total required- 37

MDF/IDF/Sub IDF/SW IP Designation/SW Port Designation

MDF 1.0- SW 1 (24): IP .10: 9 LC SFP's.

MDF 1.0- SW 2 (48): IP .11: 1-44 Blue, Rest Open

IDF 2.0- SW 1 (48): IP .20: 34, 43, 45-48 Open, Rest are Blue. (4 LC SFP's).

IDF 2.0- SW 2 (48): IP .24: 1-20 Blue, 25, 27 Yellow, 26 Green, Rest are Open.

Sub IDF 2.01- SW 1 (24): IP .21: 2-5, 19, 21-24 Open, Rest are Blue.

Sub IDF 2.02- SW 1 (48): IP .22: 1, 2, 38 Yellow, 9, 11, 13, 15, 17, 19, 21, 34-37, 39, 41-48 Open, Rest are Blue.

Sub IDF 2.03- SW 1 (24): IP .23: 1, 2, 3, 10, 12 16, 18, 20-24 Open, Rest are Blue.

IDF 3.0- SW 1 (24): IP .30: 1-20 Blue, Rest are Open. (4 LC SFP's).

IDF 3.0- SW 2 (8): IP .Unknown: 1-4 Green, Rest are Open.

Sub IDF 3.01- SW 1 (48): IP .31: 3, 5, 9, 12, 14, 15, 45, 47, 48 Open, 11, 13 Yellow, Rest are Blue.

Sub IDF 3.02- SW 1 (48): IP .32: 7-11, 13, 15, 47, 48 Open, 17, 19, 21 Yellow, Rest are Blue.

Sub IDF 3.03- SW 1 (48): IP .33: 1-36, 45 Blue, 47, 48 Yellow, Rest are Open.

IDF 4.0- SW 1 (48): IP .40: 1-36 Blue, 46-48 Yellow, Rest are Open.

IDF 5.0- SW 1 (48): IP .50: 1-25, 27-46 Blue, 26, 48 Yellow, 47 Open.

IDF 6.0- SW 1 (24): IP .60: 1-8, 10, 24 Blue, Rest are Open. (2 LC SFP's).

IDF 7.0- SW 1 (48): IP .70: 1, 2, 3 Green, 4-24 Blue, 42 Purple, 43-46 Yellow, Rest are Open.

IDF 8.0- SW 1 (24): IP .80: 1-6 Blue, 8 Green, 10 Yellow, Rest are Open.

Portables

Sub IDF CDD 249- SW 1 (8): IP .193: 1-4 Blue, Rest are Open.

Sub IDF D 481- SW 1 (48): IP .81: 2-18, 20, 22, 24, 26, 34, 36, 38 Blue, Rest are Open.

MDF 1.0- Library: Install (1) HP Fiber Switch (JG933A), and (9) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C), (3) Cat 6 Yellow network drops and (1) Cat 6 48 port patch panels.

Library Install (1) Cat 6 Data Drop/ Move WAP to center of room.

IDF 2.0- RM. 3: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (1) Aruba Stacking Module (JL325A), (1) Aruba Stacking Cable (J9734A), (2) Cat6 Yellow network drops and (1) Cat 6 48 port patch panel.

RM. 1 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install 1" e.m.t. raceway (30') / down rod swivel application.

RM. 3 Install (1) Cat 6 Data Drop.

Sub IDF 2.01- No Room #: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), and (1) Cat 6 48 port patch panel.

Sub IDF 2.02- RM. 4: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Cat6 Yellow network drops, and (1) Cat 6 48 port patch panel.

RM. 4 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install 1" e.m.t. raceway (30') / down rod swivel application.

Main Office Install (1) Cat 6 Data Drop/ Move WAP to center of room.

Sub IDF 2.03- RM. 2: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (1) Cat6 Yellow network drop, and (1) Cat 6 48 port patch panel.

RM. 2 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install 1" e.m.t. raceway (30') / down rod swivel application.

IDF 3.0- RM. 10: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C), (1) Cat6 Yellow network drop, and (1) Cat 6 48 port patch panel.

Lounge Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install down rod swivel.

Sub IDF 3.01- RM. 9: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Cat6 Yellow network drops, and (1) Cat 6 48 port patch panel.

RM. 7 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install down rod swivel.

RM. 9 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install down rod swivel.

Sub IDF 3.02- RM. 15: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C), (4) Cat6 Yellow network drops, and (1) Cat 6 48 port patch panel.

RM. 11 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install down rod swivel.

RM. 13 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install down rod swivel.

RM. 15 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install down rod swivel.

RM. 17 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install down rod swivel.

Sub IDF 3.03- RM. 14: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C), (3) Cat6 Yellow network drops, and (1) Cat 6 48 port patch panel.

RM. 12 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install down rod swivel.

RM. 14 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install down rod swivel.

RM. 16 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install down rod swivel.

IDF 4.0- RM. 19: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C), (3) Cat6 Yellow network drops, and (1) Cat 6 48 port patch panel.

RM.18 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install 1" e.m.t. raceway (30').

RM.18 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install 1" e.m.t. raceway (30').

RM.19 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install 1" e.m.t. raceway (30').

RM.20 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install 1" e.m.t. raceway (30').

IDF 5.0- RM. 23: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C), (4) Cat6 Yellow network drops and (1) Cat 6 48 port patch panel.

RM. 21 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install 1" e.m.t. raceway (30').

RM. 22 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install 1" e.m.t. raceway (30').

RM. 23 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install 1" e.m.t. raceway (30').

RM. 24 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install 1" e.m.t. raceway (30').

IDF 6.0- RM. CAFETERIA: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (1) Cat6 Yellow network drops and (1) Cat 6 48 port patch panel.

RM. Cafeteria Install (1) Cat 6 Data Drop.

IDF 7.0- RM. 109: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C), (6) Cat6 Yellow network drops and (1) Cat 6 48 port patch panel.

RM. 101 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install 1" e.m.t. raceway (40') / down rod swivel application.

RM. 102 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install 1" e.m.t. raceway (40') / down rod swivel application.

RM. 103 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install 1" e.m.t. raceway (40') / down rod swivel application.

RM. 104 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install 1" e.m.t. raceway (40') / down rod swivel application.

RM. 105 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install 1" e.m.t. raceway (40') / down rod swivel application.

RM. 106 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Install 1" e.m.t. raceway (40') / down rod swivel application.

IDF 8.0- RM. Gym Storage: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Cat6 Yellow network drops and (1) Cat 6 48 port patch panel.

RM. Gym Install (1) Cat 6 Data Drop.

RM. Gym Office Install (1) Cat 6 Data Drop/ Move WAP to center of room.

Portables

Sub IDF CDD 249- Install (2) Cat 6 Data Drops (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF D 481- Install (2) Cat 6 Data Drops (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of

the room, at 10' a.f.f. per APS District Standards. Demo existing WAP drops back to the patch panels in respective IDF's. Demo of old and abandoned cables per NEC code. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold applications, which may include complying with fire blocking requirements per NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. If the WAP is already installed in the center of the room, install (1) Cat 6 drop to existing location. All WAP patch cords must be labeled with TO port designation. Example: 2.0-1-12. Coordinate with APS IT on label installation requirements. Clean all areas after work has been performed.

Note: 1- Cat 6 Patch Cord per WAP, 1- Cat 6 Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod and swivel application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements.

Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

East San Jose Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required- 5
HP Power Supply (JD362B) Total Required- 10

Aruba 48G Copper Switch (JL322A) Total Required- 4
Aruba 24G Copper Switch (JL320A) Total Required- 13
Aruba Power Supply (JL087A) Total required- 17
Aruba Stacking Module (JL325A) Total Required- 2
Aruba Stacking Cable (J9734A) Total Required- 1
Fiber SFP LC SX (JD118B) Total Required- 49
Aruba WAP 515 (Q9H63A) Total Required- 3

Wireless Summary

Install (3) Cat 6 Data Drops in center of rooms for new Aruba 515 WAP's
Install (19) Cat 6 Data Drops in center of rooms / Relocate existing WAP.
Provide (22) Ceiling Mounts for Aruba WAP's.

Note: Coordinate with APS IT prior to installation. Refer to
APS IT wireless installation specifications requirements.

MDF 1.0- No Rm. #: Install (1) HP Fiber Switch (JG933A), and (10) Fiber SFP's LC SX (JD118B), (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 2.0- RM. C13: Install (1) HP Fiber Switch (JG933A), and (12) Fiber SFP's LC SX (JD118B).

Sub IDF 2.04- RM. C15: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- No Room #: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- TECH RM.: Install (1) HP Fiber Switch (JG933A), and (9) Fiber SFP's LC SX (JD118B), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- 13B: Install (1) HP Fiber Switch (JG933A), and (9) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 5.02- RM. 8A: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 5.05- RM. 12: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 5.07- RM. 16: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- RM. 18: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 6.01- RM. 17: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- RM. 21: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 8.0- RM. K3: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 9.0- C11: Install (1) HP Fiber Switch (JG933A), and (9) Fiber SFP's LC SX (JD118B), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Portables

Sub IDF D459- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF TL2- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF SC371- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Georgia O’Keefe Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-1
HP Power Supply (JD362B) Total Required-2
Aruba 48G Copper Switch (JL322A) Total Required- 11
Aruba 24G Copper Switch (JL320A) Total Required- 3
Aruba Power Supply (JL087A) Total required-14
Aruba Stacking Module (JL325A) Total Required- 16
Aruba Stacking Cable (J9734A) Total Required- 8
Fiber SFP LC SX (JD118B) Total Required- 8
Fiber SFP LC SX (J4858C) Total Required- 6

MDF 1.0- RM. 127: Install (1) HP Fiber Switch (JG933A), and (8) Fiber SFP’s LC SX (JD118B), (3) Aruba 48G Copper Switches (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (6) Aruba Stacking Modules (JL325A), (3) Aruba Stacking Cables (J9734A).

IDF 2.0- RM. 106: Install (3) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (4) Aruba Stacking Modules (JL325A), (2) Aruba Stacking Cable (J9734A).

IDF 3.0- CAFETERIA: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- RM. 238: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 5.0- RM. 211: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 6.0- RM. 211: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Governor Bent Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-2
HP Power Supply (JD362B) Total Required-4
Aruba 48G Copper Switch (JL322A) Total Required- 4
Aruba 24G Copper Switch (JL320A) Total Required- 7
Aruba Power Supply (JL087A) Total required-11
Aruba Stacking Module (JL325A) Total Required- 0
Aruba Stacking Cable (J9734A) Total Required- 0
Fiber SFP LC SX (JD118B) Total Required- 28
Fiber SFP LC SX (J4858C) Total Required- 11
Aruba WAP 515 (Q9H63A) Total Required- 6

Wireless Summary

Install (6) Cat 6 Data Drops in center of rooms for new Aruba 515 WAP's

Install (33) Cat 6 Data Drops in center of rooms / Relocate existing WAP.

Provide (39) Ceiling Mounts for Aruba WAP's.

Note: Coordinate with APS IT prior to installation. Refer to

APS IT wireless installation specifications requirements.

MDF 1.0- No Rm. #: Install (2) HP Fiber Switches (JG933A), and (28) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0- RM. 107: Install (1) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- RM. 113: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- RM. A1: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- RM. B6: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- RM. K1: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- C10: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 8.0- D15: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 10.0- Custodian: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Portables

Sub IDF D112 Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D482 Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Hayes Middle

Electronics Summary

HP Fiber Switch (JG933A) Total Required- 5
HP Power Supply (JD362B) Total Required- 10
Aruba 48G Copper Switch (JL322A) Total Required- 5
Aruba 24G Copper Switch (JL320A) Total Required- 15
Aruba Power Supply (JL087A) Total required-20
Aruba Stacking Module (JL325A) Total Required- 6
Aruba Stacking Cable (J9734A) Total Required- 3
Fiber SFP LC SX (JD118B) Total Required- 70
Fiber SFP LC SX (J4858C) Total Required- 17
Aruba WAP 515 (Q9H63A) Total Required- 3

Wireless Summary

Install (3) Cat 6 Data Drops in center of rooms for new Aruba 515 WAP's
Install (39) Cat 6 Data Drops in center of rooms / Relocate existing WAP.
Provide (42) Ceiling Mounts for Aruba WAP's.

Note: Coordinate with APS IT prior to installation. Refer to
APS IT wireless installation specifications requirements.

MDF 1.0- COMM. A131: Install (1) HP Fiber Switch (JG933A), and (16) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 1.01- Nurse: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.03- RM. 303: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.04- RM. 203: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.05- RM. 205: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.06- RM. 305: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0- STUDENT RECORDS 119: Install (1) HP Fiber Switch (JG933A), and (16) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch, (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 3.0- RM. 200: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 3.01- RM. 202: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 3.02- RM. 204: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- RM. 108: Install (1) HP Fiber Switch (JG933A), and (21) Fiber SFP's LC SX (JD118B), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- 502: Install (1) HP Fiber Switch (JG933A), and (5) Fiber SFP's LC SX (JD118B), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 5.01- Cafe: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- RM. 522: Install (1) HP Fiber Switch (JG933A), and (8) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch, (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 6.02- RM. 404: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- RM. 300: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Portables

Sub IDF D45- Install (1) Aruba 24G Copper Switch, (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Helen Cordero Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-1

HP Power Supply (JD362B) Total Required- 2

Aruba 48G Copper Switch (JL322A) Total Required- 15

Aruba 24G Copper Switch (JL320A) Total Required- 2

Aruba Power Supply (JL087A) Total required- 17
Aruba Stacking Module (JL325A) Total Required- 18
Aruba Stacking Cable (J9734A) Total Required- 9
Fiber SFP LC SX (JD118B) Total Required- 9
Fiber SFP LC SX (J4858C) Total Required-8
Aruba WAP 515 (Q9H63A) Total Required- 3

Wireless Summary

Install (3) Cat 6 Data Drops in center of rooms for new Aruba 515 WAP's
Install (49) Cat 6 Data Drops in center of rooms / Relocate existing WAP.
Provide (52) Ceiling Mounts for Aruba WAP's.

Note: Coordinate with APS IT prior to installation. Refer to
APS IT wireless installation specifications requirements.

MDF 1.0- RM. 404: Install (1) HP Fiber Switch (JG933A), and (9) Fiber SFP's LC SX (JD118B), (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 1.01- RM. 408: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0- RM. N154: Install (3) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (4) Aruba Stacking Modules (JL325A), and (2) Aruba Stacking Cable (J9734A).

IDF 3.0- TELE. RM.: Install (3) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (4) Aruba Stacking Modules (JL325A), and (2) Aruba Stacking Cable (J9734A).

IDF 4.0- RM. S140: Install (3) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (4) Aruba Stacking Modules (JL325A), and (2) Aruba Stacking Cable (J9734A).

IDF 5.0- RM. A105: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 6.0- TELE. RM.: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 7.0- GYM: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Hodgin Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-4
HP Power Supply (JD362B) Total Required- 8
Aruba 48G Copper Switch (JL322A) Total Required- 5
Aruba 24G Copper Switch (JL320A) Total Required- 17
Aruba Power Supply (JL087A) Total required- 22
Aruba Stacking Module (JL325A) Total Required- 4
Aruba Stacking Cable (J9734A) Total Required- 2
Fiber SFP LC SX (JD118B) Total Required- 48
Fiber SFP LC SX (J4858C) Total Required-20

Wireless Summary

Install (57) Cat 6 Data Drops in center of room / Relocate existing WAP.

Provide (57) Ceiling Mounts

Note: Coordinate with APS IT prior to installation. Refer to
APS IT wireless installation specifications requirements.

MDF 1.0- LOUNGE 109: Install (2) HP Fiber Switches (JG933A), and (19) Fiber SFP's LC SX (JD118B), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0- IDF 112: Install (1) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- OFFICE M105: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- RM. 30: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 4.01- RM. 31B: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 4.02- RM. 32B: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 4.03- RM. 33B: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- MULTI-PURPOSE 34: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- COUNSELOR A107: Install (1) HP Fiber Switch (JG933A), and (8) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

Sub IDF 6.02- RM. 4: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 6.06- Principal: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- Work Room: Install (1) HP Fiber Switch (JG933A), and (21) Fiber SFP's LC SX (JD118B), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 7.03- RM. 11: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 8.0- COMPUTER LAB RP153: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 9.0- RM. 21: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 9.03- RM. 15: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 10.0- RM. 24: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Portables

Sub IDF D500- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D325- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D10- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Hoover Middle

Electronics Summary

HP Fiber Switch (JG933A) Total Required-1
HP Power Supply (JD362B) Total Required- 2
Aruba 48G Copper Switch (JL322A) Total Required- 11
Aruba 24G Copper Switch (JL320A) Total Required- 7
Aruba Power Supply (JL087A) Total required- 18
Aruba Stacking Module (JL325A) Total Required- 10
Aruba Stacking Cable (J9734A) Total Required- 5
Fiber SFP LC SX (JD118B) Total Required- 21
Fiber SFP LC SX (J4858C) Total Required-13
Aruba WAP 515 (Q9H63A) Total Required- 4

Wireless Summary

Install (4) Cat 6 Data Drops in center of rooms for new Aruba 515 WAP's
Install (50) Cat 6 Data Drops in center of rooms / Relocate existing WAP.
Provide (54) Ceiling Mounts for Aruba WAP's.
Note: Coordinate with APS IT prior to installation. Refer to
APS IT wireless installation specifications requirements.

MDF 1.0- COMM/DATA 135: Install (1) HP Fiber Switch (JG933A), and (21) Fiber SFP's LC SX (JD118B), (3) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (4) Aruba Stacking Modules (JL325A), and (2) Aruba Stacking Cable (J9734A).

IDF 2.0- SCIENCE PREP.: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- RM. W-01: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- RM. 69: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- RM. W-22: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- RECEPTION: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 7.0- RM. E-26: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 7.01- RM. E-24: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A)

IDF 8.0- LAB PREP. E-23: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 9.0- RM. E-32: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 9.01- RM. E-36: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 10.0- Computer Lab 100: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 11.0- Kitchen: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Hubert Humphrey Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-1

HP Power Supply (JD362B) Total Required- 2

Aruba 48G Copper Switch (JL322A) Total Required- 7

Aruba 24G Copper Switch (JL320A) Total Required- 3

Aruba Power Supply (JL087A) Total required- 10

Aruba Stacking Module (JL325A) Total Required- 4

Aruba Stacking Cable (J9734A) Total Required- 2

Fiber SFP LC SX (JD118B) Total Required- 14

Aruba WAP 515 (Q9H63A) Total Required- 2

Wireless Summary

Install (2) Cat 6 Data Drops in center of rooms for new Aruba 515 WAP's

Install (21) Cat 6 Data Drops in center of rooms / Relocate existing WAP.

Provide (23) Ceiling Mounts for Aruba WAP's.

Note: Coordinate with APS IT prior to installation. Refer to

APS IT wireless installation specifications requirements.

MDF 1.0- STORAGE A103S: Install (1) HP Fiber Switch (JG933A), and (14) Fiber SFP's LC SX (JD118B), Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 2.0- RM. R-119: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 3.0- COMP. LAB SB-101: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- RM. R-115: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- ELECTRICAL RM. 122: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- LOUNGE A-107: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 8.0- OFFICE M-103: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 9.0- CAFETERIA: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Inez Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-2
HP Power Supply (JD362B) Total Required- 4
Aruba 48G Copper Switch (JL322A) Total Required- 5
Aruba 24G Copper Switch (JL320A) Total Required- 6
Aruba Power Supply (JL087A) Total required- 11
Aruba Stacking Module (JL325A) Total Required- 6
Aruba Stacking Cable (J9734A) Total Required- 3
Fiber SFP LC SX (JD118B) Total Required- 23
Fiber SFP LC SX (J4858C) Total Required- 8
Aruba WAP 515 (Q9H63A) Total Required- 2

Wireless Summary

Install (2) Cat 6 Data Drops in center of rooms for new Aruba 515 WAP's

Install (38) Cat 6 Data Drops in center of rooms / Relocate existing WAP.

Provide (40) Ceiling Mounts for Aruba WAP's.

Note: Coordinate with APS IT prior to installation. Refer to
APS IT wireless installation specifications requirements.

MDF 1.0- AV STORAGE A-115S: Install (1) HP Fiber Switch (JG933A), and (12) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 2.0- RM. R-111: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- RM. R-115: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- RM. R-125: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- COMM: Install (1) HP Fiber Switch (JG933A), and (11) Fiber SFP's LC SX (JD118B), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- RM. 129: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 8.0- LOUNGE: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 9.0- ELECTRICAL RM. 117: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

James Monroe Middle

Electronics Summary

HP Fiber Switch (JG933A) Total Required- 3
HP Power Supply (JD362B) Total Required- 6
Aruba 48G Copper Switch (JL322A) Total Required- 11
Aruba 24G Copper Switch (JL320A) Total Required- 16
Aruba Power Supply (JL087A) Total required- 27
Aruba Stacking Module (JL325A) Total Required- 12
Aruba Stacking Cable (J9734A) Total Required- 6
Fiber SFP LC SX (JD118B) Total Required- 40
Fiber SFP LC SX (J4858C) Total Required- 22

MDF 1.0- B-117: Install (1) HP Fiber Switch (JG933A), and (15) Fiber SFP's LC SX (JD118B), (3) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (4) Aruba Stacking Modules (JL325A), and (2) Aruba Stacking Cable (J9734A).

IDF 2.0- RM. C-210: Install (1) HP Fiber Switch (JG933A), and (16) Fiber SFP's LC SX (JD118B), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 2.01- RM. C-101: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 2.02- LAB C-102: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 2.03- RM. C-103: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 2.12- RM. C-205: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- NO RM. #: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 3.01- RM. E-201: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- ELECTRICAL RM. 113: Install (1) HP Fiber Switch (JG933A), and (9) Fiber SFP's LC SX (JD118B), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 4.01- RM. PE/OT/PT: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 4.04- CAFETERIA: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 4.08- CAD F-137: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- STORAGE E-102: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 7.0- LAB D-101: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 8.0- COMM. D-206A: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 8.01- RM. D-201: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 9.0- WORK RM.: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 9.01- RM. E-36: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 10.0- NO RM. #: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 10.01- RM. B-201: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Portables

Sub IDF D-432: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D-471: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW. Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Janet Kahn Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required- 3
HP Power Supply (JD362B) Total Required- 6
Aruba 48G Copper Switch (JL322A) Total Required- 2
Aruba 24G Copper Switch (JL320A) Total Required- 7
Aruba Power Supply (JL087A) Total required- 9
Aruba Stacking Module (JL325A) Total Required- 0
Aruba Stacking Cable (J9734A) Total Required- 0
Fiber SFP LC SX (JD118B) Total Required- 30
Fiber SFP LC SX (J4858C) Total Required-10
Aruba WAP 515 (Q9H63A) Total Required- 2

Wireless Summary

Install (2) Cat 6 Data Drops in center of rooms for new Aruba 515 WAP's
Install (27) Cat 6 Data Drops in center of rooms / Relocate existing WAP.
Provide (29) Ceiling Mounts for Aruba WAP's.
Note: Coordinate with APS IT prior to installation. Refer to APS IT wireless installation specifications requirements.

MDF 1.0- No Rm. #: Install (1) HP Fiber Switch (JG933A), and (16) Fiber SFP's LC SX (JD118B), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.04- RM. 19: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0- RM. 9: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 2.02- RM. 5: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- Library: Install (1) HP Fiber Switch (JG933A), and (7) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 3.01- RM. 10 Nurse: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- RM. 26: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- RM. 24: Install (1) HP Fiber Switch (JG933A), and (7) Fiber SFP's LC SX (JD118B).

Portables

Sub IDF D228- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D223- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

John Baker Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required- 1
HP Power Supply (JD362B) Total Required- 2
Aruba 48G Copper Switch (JL322A) Total Required- 8
Aruba 24G Copper Switch (JL320A) Total Required- 2
Aruba Power Supply (JL087A) Total required- 10
Aruba Stacking Module (JL325A) Total Required- 6
Aruba Stacking Cable (J9734A) Total Required- 3
Fiber SFP LC SX (JD118B) Total Required- 9
Fiber SFP LC SX (J4858C) Total Required- 7

Wireless Summary

Install (18) Cat 6 Data Drops in center of room / Relocate existing WAP.

Provide (18) Ceiling Mounts

Note: Coordinate with APS IT prior to installation. Refer to APS IT wireless installation specifications requirements.

MDF 1.0- MDF EQUIPMENT 121: Install (1) HP Fiber Switch (JG933A), and (9) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 2.0- IDF 137: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 3.0- IDF 198: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 4.0- STORAGE 176: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- RM. 217: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- RM. 102: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- RM. 204: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Juvenile Detention Center Middle

Electronics Summary

Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 17
Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required-1
Commscope/Uniprise Cat 6 Data Drops: Total required- 5

MDF 1.0- COMPUTER LAB: Install (1) Cat 6 48 port patch panel. Install (6) Cat 6 Data Drops/ Move WAP to center of room/Replace with Aruba WAP.

Library Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Class room #1 Remove HP WAP/Replace w/ Aruba WAP.

Class room #2 Remove HP WAP/Replace w/ Aruba WAP.

Class room #3 Remove HP WAP/Replace w/ Aruba WAP.

Class room #4 Remove HP WAP/Replace w/ Aruba WAP.

Class room #5 Remove HP WAP/Replace w/ Aruba WAP.

Class room #6 Remove HP WAP/Replace w/ Aruba WAP.

Class room #7 Remove HP WAP/Replace w/ Aruba WAP.

Class room #8 Remove HP WAP/Replace w/ Aruba WAP.

Counseling Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

No room # (Opposite Counseling) Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Portables

Sub IDF P3- Install (1) Cat 6 Data drop/ Add new Aruba WAP to center of room.

Sub IDF D-271- Install (2) Cat 6 Data drops/ Add new Aruba WAP to each side of portable.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of the room, at 10' a.f.f. per APS District Standards. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold

applications, which may include complying with fire blocking requirements per NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. All WAP patch cords must be labeled with TO port designation. Example: 2.0-1-12. Coordinate with APS IT on label installation requirements. Clean all areas after work has been performed.

Note: 1- Cat 6 Patch Cord per WAP, 1- Cat 6 Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod and swivel application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements.

Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Kit Carson Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required- 4

HP Power Supply (JD362B) Total Required- 8

Aruba 48G Copper Switch (JL322A) Total Required- 11

Aruba 24G Copper Switch (JL320A) Total Required- 10

Aruba Power Supply (JL087A) Total required- 21

Aruba Stacking Module (JL325A) Total Required- 4
Aruba Stacking Cable (J9734A) Total Required- 2
Fiber SFP LC SX (JD118B) Total Required- 70
Fiber SFP LC SX (J4858C) Total Required- 19
Aruba WAP 515 (Q9H63A) Total Required- 5

Wireless Summary

Install (5) Cat 6 Data Drops in center of rooms for new Aruba 515 WAP's
Install (27) Cat 6 Data Drops in center of rooms / Relocate existing WAP.
Provide (32) Ceiling Mounts for Aruba WAP's.

Note: Coordinate with APS IT prior to installation. Refer to
APS IT wireless installation specifications requirements.

MDF 1.0- No Rm. #: Install (1) HP Fiber Switch (JG933A), and (15) Fiber SFP's LC SX (JD118B), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.01- RM. 51: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.02- RM. 40: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.03- RM. 66 Work Room: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0- RM. C10: Install (2) HP Fiber Switches (JG933A), and (48) Fiber SFP's LC SX (JD118B), (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 3.0- RM. C17: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- Cafe: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- RM. C27: Install (1) HP Fiber Switch (JG933A), and (7) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 6.05- RM. C25: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- RM. C23: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 8.0- RM. K106: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 9.0- K109: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 10.0- Electrical Room: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 11.0- RM. 201: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Portables

Sub IDF LD3- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF ACD78- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D378- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF ACDF76- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D23- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

La Cueva High

Electronics Summary

HP Fiber Switch (JG933A) Total Required- 6
HP Power Supply (JD362B) Total Required- 12
Aruba 48G Copper Switch (JL322A) Total Required- 29
Aruba 24G Copper Switch (JL320A) Total Required- 5
Aruba Power Supply (JL087A) Total required- 34
Aruba Stacking Module (JL325A) Total Required- 14
Aruba Stacking Cable (J9734A) Total Required- 7
Fiber SFP LC SX (JD118B) Total Required- 28
Fiber SFP LC SX (J4858C) Total Required- 27

MDF 1.0- STORAGE RB-179S: Install (6) HP Fiber Switches (JG933A), and (28) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.01- RM. G5: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.02- RM. G2: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.03- RM. G3: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.04- STORAGE RB-169S: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.05- RM. G1: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.06- RM. G9: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.07- RM. G10: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0- RM. F10: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 3.0- RM. F6: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- OFFICE RI-112: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

Sub IDF 4.01- RM. D9: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 4.02- OFFICE RP-119: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- LOUNGE A159: Install (2) Aruba 48G Copper Switches (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (4) Aruba Stacking Modules (JL325A), (2) Aruba Stacking Cables (J9734A).

IDF 6.0- RM. C5: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- STORAGE U169: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 8.0- STORAGE U159: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 9.0- RM. R309: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 10.0- MEDIA CENTER: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 10.01- MEDIA CENTER: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 11.0- RM. B8: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 11.01- RM. B5: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 11.02- RM. B2: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 12.0- PREP MINI LAB: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 13.0- CAFETERIA: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 14.0- BAND OFFICE: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 15.01- : Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

La Luz Elementary

Electronics Summary

Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 42
Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required-5
Commscope/Uniprise Cat 6 Data Drops: Total required- 12

MDF 1.0- M-103: Install (1) Cat 6 48 port patch panel, Install (9) Cat 6 Data Drops.

Sub IDF 1.01- RM. R-01 Install (2) Cat 6 Data Drops/ Move WAP to center of room/Replace with Aruba WAP.

R-03 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 1.02- RM. RK-02 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 1.03- RM. RK-04 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 1.04- RM. R-06 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 1.05- RM. R-05 Remove HP WAP/Replace w/ Aruba WAP.

Rm. R-07 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 1.06- RM. R-08 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 1.07- RM. C-109 Remove HP WAP/Replace w/ Aruba WAP/ Install (1) Cat 6 Data Drop.

Lounge Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 2.0- FILE RM. A-121 Install (1) Cat 6 Data Drop. Install (1) Cat 6 48 port patch panel.

Rm. A-09 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 2.01- RM. R-10 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 2.02- RM. R-11 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 2.03- RM. R-12 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 2.04- RM. R-13 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 2.05- LOUNGE Remove HP WAP/Replace w/ Aruba WAP.

Hall 110 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 2.06- LIBRARY Install (1) Cat 6 48 port patch panel. Remove HP WAP/Replace w/ Aruba WAP.

IDF 3.0- NO RM. #: Install (1) Cat 6 48 port patch panel. Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 17 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 3.01- RM. R-16 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 3.02- RM. R-15 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 4.0- CAFETERIA: Install (1) Cat 6 48 port patch panel. Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 4.01- STORAGE P-101

Office A-119 Remove HP WAP/Replace w/ Aruba WAP.

IDF 5.0- TELE/COMM: Install (2) Cat 6 Data Drops. Install (1) Cat 6 48 port patch panel.

Rm. 20 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 22 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 25 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 26 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 27 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 28 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Portables

Sub IDF SC-792- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-12- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-456- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of the room, at 10' a.f.f. per APS District Standards. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold applications, which may include complying with fire blocking requirements per NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. All WAP patch cords must be labeled with TO port designation. Example: 2.0-1-12. Coordinate with APS IT on label installation requirements. Clean all areas after work has been performed.

Note: 1- Cat 6 Patch Cord per WAP, 1- Cat 6 Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod and swivel application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements.

Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of

electronics per SoW. Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

La Mesa Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-4
HP Power Supply (JD362B) Total Required- 8
Aruba 48G Copper Switch (JL322A) Total Required- 3
Aruba 24G Copper Switch (JL320A) Total Required- 35
Aruba Power Supply (JL087A) Total required- 38
Aruba Stacking Module (JL325A) Total Required- 0
Aruba Stacking Cable (J9734A) Total Required- 0
Fiber SFP LC SX (JD118B) Total Required- 42
Fiber SFP LC SX (J4858C) Total Required-39
Aruba WAP 515 (Q9H63A) Total Required- 2

Wireless Summary

Install (2) Cat 6 Data Drops in center of rooms for new Aruba 515 WAP's
Install (33) Cat 6 Data Drops in center of rooms / Relocate existing WAP.
Provide (35) Ceiling Mounts for Aruba WAP's.

Note: Coordinate with APS IT prior to installation. Refer to
APS IT wireless installation specifications requirements.

MDF 1.0- WORK RM. A111: Install (2) HP Fiber Switches (JG933A), and (27) Fiber SFP's LC SX (JD118B), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.01- RM. 107: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.02- RM. 109: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.03- RM. 111: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.04- RM. 106: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.05- RM. 104: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.06- RM. 102: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0- RM. 120: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- RM. 121: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- RM. 126: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 4.01- RM. 123: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 4.02- RM. 122: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 4.03- RM. 101: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 4.04- RM. 103: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 4.05- RM. 105: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- 108: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 5.01- RM. 110: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 5.02- RM. 112: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- RM. 114: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 6.01- RM. 116: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 6.02- RM. 118: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- P.E. Storage: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 7.01- Café Storage: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 7.02- RM. 119: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 7.03- RM. 117: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 7.04- RM. 115: Install (1) Aruba 24G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 8.0- 230: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 8.01- 228: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 8.02- 229: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 8.03- 231: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 9.0- RM. 222: Install (1) HP Fiber Switch (JG933A), and (8) Fiber SFP's LC SX (JD118B).

Sub IDF 9.01- 218: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 9.02- 219: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 10.0- TELE.: Install (1) HP Fiber Switch (JG933A), and (7) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 10.02- 212: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Portables

Sub IDF D373- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D462- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D496- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D495- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Longfellow Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-1
HP Power Supply (JD362B) Total Required- 2
Aruba 48G Copper Switch (JL322A) Total Required- 6
Aruba 24G Copper Switch (JL320A) Total Required- 6
Aruba Power Supply (JL087A) Total required- 12
Aruba Stacking Module (JL325A) Total Required- 4
Aruba Stacking Cable (J9734A) Total Required- 2
Fiber SFP LC SX (JD118B) Total Required- 9
Fiber SFP LC SX (J4858C) Total Required-10

Wireless Summary

Install (29) Cat 6 Data Drops in center of room / Relocate existing WAP.

Provide (29) Ceiling Mounts

Note: Coordinate with APS IT prior to installation. Refer to

APS IT wireless installation specifications requirements.

MDF 1.0- RM. TIA: Install (1) HP Fiber Switch (JG933A), and (9) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 2.0- RM. W-10: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 2.01- RM. W-6: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- W-4: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- W-7: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- Office B: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 5.01- COACH OFFICE: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- RM. E-25: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- E-23: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 8.0- S-16: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Los Padillas Elementary

Electronics Summary

Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 49

Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required-8

Commscope/Uniprise Cat 6 Data Drops: Total required- 28

MDF 1.0- OFFICE 105: Install (1) Cat 6 48 port patch panel/ Install (8) Cat 6 Data Drops.

Library Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 2.0- WORK ROOM A-115 Install (3) Cat 6 Data Drops. Install (1) Cat 6 48 port patch panel.

Multi-Purpose F-101 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Office A-105 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Office A-101 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 3.0- RM. 1: Install (1) Cat 6 48 port patch panel/ Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 3.01- RM. 2 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 3.02- RM. 3 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 3.03- RM. 4 Remove HP WAP/Replace w/ Aruba WAP.

IDF 4.0- RM. 5: Install (1) Cat 6 48 port patch panel/ Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 4.01- RM. 6: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 4.02- RM. 7: Remove HP WAP/Replace w/ Aruba WAP.

IDF 5.0- RM. GYM STORAGE: Install (1) Cat 6 48 port patch panel.

GYM Remove HP WAP/Replace w/ Aruba WAP.

IDF 6.0- RM. 11: Install (1) Cat 6 48 port patch panel. Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 6.01- RM. 12: Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 6.02- RM. 10: Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 6.03- RM. 9: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 6.04- RM. 8: Remove HP WAP/Replace w/ Aruba WAP.

IDF 7.0- ELECTRICAL ROOM 109: Install (2) Cat 6 Data Drops. Install (1) Cat 6 48 port patch panel.

RM. 115 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 114: Remove HP WAP/Replace w/ Aruba WAP.

RM. 102: Remove HP WAP/Replace w/ Aruba WAP.

RM. 118: Remove HP WAP/Replace w/ Aruba WAP.

RM. 119 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 8.0- BLDG. 9 STORAGE: Install (1) Cat 6 48 port patch panel.

Sub IDF 8.01- RM. 14: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 8.02- RM. 15: Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 8.03- RM. 16: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 8.04- RM. 17: Remove HP WAP/Replace w/ Aruba WAP.

Portables

Sub IDF SC-314- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-122- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-93- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-413- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF K-9- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF HSD-1- Install (2) Cat 6 Data Drops/Replace HP WAP's with new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF SC-767- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-247- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-370- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-518- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-395- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-751- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-201- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-231- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of the room, at 10' a.f.f. per APS District Standards. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold applications, which may include complying with fire blocking requirements per

NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. All WAP patch cords must be labeled with TO port designation. Example: 2.0-1-12. Coordinate with APS IT on label installation requirements. Clean all areas after work has been performed.

Note: 1- Cat 6 Patch Cord per WAP, 1- Cat 6 Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod and swivel application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements.

Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW. Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

MacArthur Elementary

Electronics Summary

Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 36
Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required-7
Commscope/Uniprise Cat 6 Data Drops: Total required- 15

MDF 1.0- NO RM. #: Install (1) Cat 6 48 port patch panel/ Install (4) Cat 6 Data Drops.

Rm. SD-107 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 110 Remove HP WAP/Replace w/ Aruba WAP.

Library Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 2.0- WORK ROOM A-119 Install (2) Cat 6 Data Drops. Install (1) Cat 6 48 port patch panel.

Office A-107 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Nurse A-121 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Lounge Remove HP WAP/Replace w/ Aruba WAP.

Rm. S-103 Remove HP WAP/Replace w/ Aruba WAP.

Rm. SC-101 Remove HP WAP/Replace w/ Aruba WAP.

Counselor A-11 Remove HP WAP/Replace w/ Aruba WAP.

IDF 3.0- RM. C-101: Install (1) Cat 6 48 port patch panel. Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 4.0- STORAGE 304: Install (1) Cat 6 48 port patch panel/ Install (1) Cat 6 Data Drop.

Cafeteria Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 5.0- RM. 202: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install (1) Cat 6 48 port patch panel.

Rm. 201 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 203 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 204 Remove HP WAP/Replace w/ Aruba WAP.

IDF 6.0- RM. 206: Install (1) Cat 6 48 port patch panel/ Install (1) Cat 6 Data Drop/
Remove HP WAP/Replace w/ Aruba WAP.

Rm. 207 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with
Aruba WAP.

Rm. 208 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 6.01- RM. UTILITY: Install (1) Cat 6 Data Drop.

Coach's Office Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace
with Aruba WAP.

IDF 7.0- RM. 211: Install (1) Cat 6 Data Drop. Install (1) Cat 6 48 port patch panel/
Remove HP WAP/Replace w/ Aruba WAP.

Rm. 209 Remove HP WAP/Replace w/ Aruba WAP.

RM. 210 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with
Aruba WAP.

Rm. 110 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 114 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 120 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 121 Remove HP WAP/Replace w/ Aruba WAP.

Portables

Sub IDF CDD-442- Install (2) Cat 6 Data drops (Both sides of portable)/ Move WAP
to center of room/Replace with Aruba WAP/Add new Aruba WAP to opposite
side.

Sub IDF D-498- Install (1) Cat 6 Data drop/Add new Aruba WAP/ Remove HP
WAP/Replace w/ Aruba WAP.

Sub IDF SC-315- Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF D-212- - Install (1) Cat 6 Data drop/Add new Aruba WAP/ Remove HP
WAP/Replace w/ Aruba WAP.

Sub IDF SC-553- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF K-1- Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of the room, at 10' a.f.f. per APS District Standards. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold applications, which may include complying with fire blocking requirements per NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. All WAP patch cords must be labeled with TO port designation. Example: 2.0-1-12. Coordinate with APS IT on label installation requirements. Clean all areas after work has been performed.

Note: 1- Cat 6 Patch Cord per WAP, 1- Cat 6 Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod and swivel application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements.

Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW. Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Madison Middle

Electronics Summary

HP Fiber Switch (JG933A) Total Required-2
HP Power Supply (JD362B) Total Required- 4
Aruba 48G Copper Switch (JL322A) Total Required- 15
Aruba 24G Copper Switch (JL320A) Total Required- 4
Aruba Power Supply (JL087A) Total required- 19
Aruba Stacking Module (JL325A) Total Required- 10
Aruba Stacking Cable (J9734A) Total Required- 5

Fiber SFP LC SX (JD118B) Total Required- 23

Fiber SFP LC SX (J4858C) Total Required-25

Aruba WAP 515 (Q9H63A) Total Required- 4

Wireless Summary

Install (4) Cat 6 Data Drops in center of rooms for new Aruba 515 WAP's

Install (37) Cat 6 Data Drops in center of rooms / Relocate existing WAP.

Provide (41) Ceiling Mounts for Aruba WAP's.

Note: Coordinate with APS IT prior to installation. Refer to

APS IT wireless installation specifications requirements.

IDF 1.0- WORK RM. 227: Install (1) HP Fiber Switch (JG933A), and (15) Fiber SFP's LC SX (JD118B), (2) Aruba 48G Copper Switches (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (4) Aruba Stacking Modules (JL325A), and (2) Aruba Stacking Cable (J9734A).

IDF 2.0- LOUNGE: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 3.0- HOME EC. RH-101: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- RM. 8: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- RM. 10: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- RM. H-102: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- CAFE OFFICE: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 8.0- GYM: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 9.0- RM. 11: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 10.0- OFFICE A-103: Install (1) HP Fiber Switch (JG933A), and (8) Fiber SFP's LC SX (JD118B), (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 10.01- RM. 24: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 11.0- AV STORAGE 506: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 13.0- TELECOM 124: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 13.01- RM. STORAGE 109: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Mary Ann Binford Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required- 4

HP Power Supply (JD362B) Total Required- 8

Aruba 48G Copper Switch (JL322A) Total Required- 7

Aruba 24G Copper Switch (JL320A) Total Required- 9

Aruba Power Supply (JL087A) Total required- 16

Aruba Stacking Module (JL325A) Total Required- 2

Aruba Stacking Cable (J9734A) Total Required- 1

Fiber SFP LC SX (JD118B) Total Required- 48

Fiber SFP LC SX (J4858C) Total Required- 15

MDF 1.0- LIB. M-103: Install (1) HP Fiber Switch (JG933A), and (24) Fiber SFP's LC SX (JD118B), (2) Aruba 48G Copper Switches (JL322A), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 2.0- RM. 118: Install (1) HP Fiber Switch (JG933A), and (6) Fiber SFP's LC SX (JD118B), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- RM. 123: Install (1) HP Fiber Switch (JG933A), and (6) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 3.02-RM.126: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- TELCOM 134: Install (1) HP Fiber Switch (JG933A), and (12) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 4.01-K1: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 4.02-K2: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- RM. 106: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0-RM. 102: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0-RM. 128: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Portables

Sub IDF D-49: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF FK-14: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF SC-208: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D-149: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D-468: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

McCollum Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required- 2
HP Power Supply (JD362B) Total Required- 4
Aruba 48G Copper Switch (JL322A) Total Required- 5
Aruba 24G Copper Switch (JL320A) Total Required- 7
Aruba Power Supply (JL087A) Total required- 12
Aruba Stacking Module (JL325A) Total Required- 0
Aruba Stacking Cable (J9734A) Total Required- 0
Fiber SFP LC SX (JD118B) Total Required- 22
Fiber SFP LC SX (J4858C) Total Required- 11

Wireless Summary

Install (43) Cat 6 Data Drops in center of room / Relocate existing WAP.
Provide (43) Ceiling Mounts
Note: Coordinate with APS IT prior to installation. Refer to APS IT wireless installation specifications requirements.

MDF 1.0- RM. A123: Install (1) HP Fiber Switch (JG933A), and (11) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 2.0- RM. 4: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- RM. 16: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- RM. 28: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- RM. 24: Install (1) HP Fiber Switch (JG933A), and (11) Fiber SFP's LC SX (JD118B). (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 5.01- MECHANICAL RM. INSIDE OF GYM BLDG.: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- RM. C122: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- RM. B112: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 8.0- RM. 5: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 9.0- RM. 14: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 10.0- RM. 23: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Mitchell Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-1
HP Power Supply (JD362B) Total Required- 2
Aruba 48G Copper Switch (JL322A) Total Required- 4
Aruba 24G Copper Switch (JL320A) Total Required- 8
Aruba Power Supply (JL087A) Total required- 12
Aruba Stacking Module (JL325A) Total Required- 4
Aruba Stacking Cable (J9734A) Total Required- 2
Fiber SFP LC SX (JD118B) Total Required- 16
Fiber SFP LC SX (J4858C) Total Required-10

Wireless Summary

Install (34) Cat 6 Data Drops in center of room / Relocate existing WAP.

Provide (34) Ceiling Mounts

Note: Coordinate with APS IT prior to installation. Refer to APS IT wireless installation specifications requirements.

MDF 1.0- RM. 3: Install (1) HP Fiber Switch (JG933A), and (16) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 2.0- RM. 8: Install (1) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- RM. 9: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- RM. Gym Vestibule: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- Admin Hall: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- RM. 24: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- RM. 18: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 8.0- Library: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 9.0- Kitchen: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Portables

Sub IDF D234 Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW. Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Navajo Elementary

Electronics Summary

Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 62
Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required-6
Commscope/Uniprise Cat 6 Data Drops: Total required- 42

MDF 1.0- TELECOM: Install (1) Cat 6 48 port patch panel/ Install (3) Cat 6 Data Drop.

Rm. R-145 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 1.02- RM. R-143 Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF 1.03- RM. R-141 Remove HP WAP/Replace w/ Aruba WAP.

Remove HP WAP/Replace w/ Aruba WAP.

IDF 2.0- TELECOM A118B: Install (4) Cat 6 Data Drops. Install (1) Cat 6 48 port patch panel.

Lounge A138 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Vestibule A118A Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Dining A122 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Reception A103 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 3.0- ELECTRICAL RM.: Install (1) Cat 6 48 port patch panel/ Install (5) Cat 6 Data Drops.

Rm. 01 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 03 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 05 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 06 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 08 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 09 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 11 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 12 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 3.01- RM. 25 CLOSET Install (1) Cat 6 Data Drop.

Rm. 14 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 15 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 17 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 25 Remove HP WAP/Replace w/ Aruba WAP.

Office 144 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 4.0- GYM STORAGE: Install (1) Cat 6 Data Drop. Install (1) Cat 6 48 port patch panel.

Gym Office A-121 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 5.0- TELECOM: Install (2) Cat 6 Data Drops. Install (1) Cat 6 48 port patch panel.

Library M-102 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Computer Lab M-106 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 6.0- TELECOM C114: Install (1) Cat 6 48 port patch panel/ Install (3) Cat 6 Data Drops.

RM. C110 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. C108 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 9 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 7 Remove HP WAP/Replace w/ Aruba WAP.

RM. 6 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF 6.01- NO RM. #: Install (1) Cat 6 Data Drop/ Install (1) Cat 6 48 port patch panel.

RM. 1 Remove HP WAP/Replace w/ Aruba WAP.

RM. 2 Remove HP WAP/Replace w/ Aruba WAP.

RM. 3 Remove HP WAP/Replace w/ Aruba WAP.

RM. 4 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 5 Remove HP WAP/Replace w/ Aruba WAP.

Portables

Sub IDF D-530- Install (1) Cat 6 Data Drop/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF SC-823- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-586- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-431- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-651- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-60- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-733- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF D-131- Install (1) Cat 6 Data Drop/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF SC-136- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-410- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF D-24- Install (1) Cat 6 Data Drop/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF SC-737- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-719- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SE-2- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF D-30- Install (1) Cat 6 Data Drop/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF D-531- Install (1) Cat 6 Data Drop/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF D-532- Install (2) Cat 6 Data Drops/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF D-533- Install (2) Cat 6 Data Drops/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF D-27- Install (2) Cat 6 Data Drops/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF D-185- Install (1) Cat 6 Data Drop/Replace HP WAP's (Both sides of portable, (1) ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of the room, at 10' a.f.f. per APS District Standards. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold applications, which may include complying with fire blocking requirements per NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. All WAP patch cords must be labeled with TO port designation. Example: 2.0-1-12. Coordinate with APS IT on label installation requirements. Clean all areas after work has been performed.

Note: 1- Cat 6 Patch Cord per WAP, 1- Cat 6 Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod and swivel application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements.

Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW. Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Oñate Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-1
HP Power Supply (JD362B) Total Required- 2
Aruba 48G Copper Switch (JL322A) Total Required- 11
Aruba 24G Copper Switch (JL320A) Total Required- 3
Aruba Power Supply (JL087A) Total required-14
Aruba Stacking Module (JL325A) Total Required- 14
Aruba Stacking Cable (J9734A) Total Required- 7
Fiber SFP LC SX (JD118B) Total Required- 8

Fiber SFP LC SX (J4858C) Total Required-8

Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 39

Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required-7

Commscope/Uniprise Cat 6 Data Drops: Total required- 9

MDF/IDF/Sub IDF/SW IP Designation/SW Port Designation

MDF 1.0- SW 1 (24): IP .10: 8 LC SFP's.

MDF 1.0- SW 2 (48): IP .11: 1 LC SFP's, All Blue

MDF 1.0- SW 3 (48): IP .12: 40-45 Yellow, 46-47 Green, Rest are White

MDF 1.0- SW 4 (24): IP .13: 11, 13-23 Gray, 14 Blue, Rest are Open

IDF 2.0- SW 1 (48): IP .20: 1, 3, 4, 5, 6 Gray, 2, 8, 29 Green, 47, 48 Open, Rest are Blue.

IDF 3.0- SW 1 (48): IP .30: 33-38 Yellow, 31, 32, 39, 40, 47, 48 Open, Rest are White.

IDF 3.0- SW 2 (48): IP .31: 4, 6 Green, 24-30 Gray, Rest are White/Blue.

IDF 5.0- SW 1 (24): IP .50: 1, 2, 3 Green, 7 Gray, Rest are Blue.

IDF 6.0- SW 1 (48): IP .60: 1-45, 47 Blue, 46-Solar, 48 Open.

IDF 6.0- SW 2 (48): IP .61: 1-12 Yellow, 13,15,17,19,21,23,25 Gray, 14,16,18,20 Black, 22, 24, 25 Purple, 39,41,43,45,47 Green.

IDF 7.0- SW 1 (48): IP .70: 1-12, 14, 16, 18, 20, 22 Blue, 13, 15, 17 Yellow, Rest are Open.

IDF 7.0- SW 2 (48): IP .71: 1,3,5,7,9,11,13,15,26,38,40 Blue, 2,4,37,39,41,43,45,47 Green, 16,18,20,22,24 Purple, 28,30,32,34,36 Black, 17,21,25,29,33 Yellow.

IDF 8.0- SW 1 (48): IP .80: 1-48 Blue.

IDF 8.0- SW 2 (48): IP .81: 1-29,33,35,37,39,41,43,45,47 Blue, 30,34,38,42,46 Yellow.

IDF 8.0- SW 3 (24): IP .82: 1,3 Green, 5,7,9,11,13 Gray, Rest Open.

MDF 1.0- Rm. A-5: Install (1) HP Fiber Switch (JG933A), (8) Fiber SFP's LC SX (JD118B), (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C) (1) Aruba 24G Copper Switch (JL320A), (4) Aruba Stacking Modules (JL325A), (2) Aruba Stacking Cables (J9734A), (1) Cat 6 48 Port Patch Panel, Install (3) Cat 6 Data Drops.

Rm A-1: Remove HP WAP/Replace w/ Aruba WAP.

Rm A-2: Remove HP WAP/Replace w/ Aruba WAP.

Rm A-3: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm A-4: Remove HP WAP/Replace w/ Aruba WAP.

Rm A-5: Remove HP WAP/Replace w/ Aruba WAP.

Rm A-6: Remove HP WAP/Replace w/ Aruba WAP.

Rm A-7: Remove HP WAP/Replace w/ Aruba WAP.

Rm A-8: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Music Rm: Remove HP WAP/Replace w/ Aruba WAP.

Media Ctr: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 2.0- Staff Lounge: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C), (1) Cat 6 48 port patch panel, (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 3.0- Rm B-9: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A), (1) Cat 6 48 Port Patch Panel, Remove HP WAP/Replace w/ Aruba WAP.

Rm B-10: Remove HP WAP/Replace w/ Aruba WAP.

Rm B-11: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm B-12: Remove HP WAP/Replace w/ Aruba WAP.

Rm B-13: Remove HP WAP/Replace w/ Aruba WAP.

Rm B-14: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm B-15: Remove HP WAP/Replace w/ Aruba WAP.

Rm B-16: Remove HP WAP/Replace w/ Aruba WAP.

4.0- Gym: Remove HP WAP/Replace w/ Aruba WAP.

IDF 5.0- Cafeteria: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (1) Cat 6 48 port patch panel, Remove HP WAP/Replace w/ Aruba WAP.

IDF 6.0- K-IT Rm: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable, (1) Cat 6 48 Port Patch Panel.

Rm K-4: Remove HP WAP/Replace w/ Aruba WAP.

Rm K-5: Remove HP WAP/Replace w/ Aruba WAP.

Rm K-8: Remove HP WAP/Replace w/ Aruba WAP.

Rm K-11: Remove HP WAP/Replace w/ Aruba WAP.

Rm K-14: Remove HP WAP/Replace w/ Aruba WAP.

IDF 7.0- 1st Fl. IT Rm: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable, (1) Cat 6 48 Port Patch Panel.

Rm 109: Remove HP WAP/Replace w/ Aruba WAP.

Rm 110: Remove HP WAP/Replace w/ Aruba WAP.

Rm 111: Remove HP WAP/Replace w/ Aruba WAP.

Rm 112: Remove HP WAP/Replace w/ Aruba WAP.

O/PT Rm: Remove HP WAP/Replace w/ Aruba WAP.

IDF 8.0- 2nd Fl. IT Rm: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A), (1) Cat 6 48 port patch panel.

Rm 203: Remove HP WAP/Replace w/ Aruba WAP.

Rm 204: Remove HP WAP/Replace w/ Aruba WAP.

Rm 205 Remove HP WAP/Replace w/ Aruba WAP.

Rm 206: Remove HP WAP/Replace w/ Aruba WAP.

Computer Lab: Remove HP WAP/Replace w/ Aruba WAP.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of the room, at 10' a.f.f. per APS District Standards. Demo existing WAP drops back to the patch panels in respective IDF's. Demo of old and abandoned cables per NEC code. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold applications, which may include complying with fire blocking requirements per NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. If the WAP is already installed in the center of the room, install (1) Cat 6 drop to existing location. All WAP patch cords must be labeled with TO port designation.

Example: 2.0-1-12. Coordinate with APS IT on label installation requirements.

Clean all areas after work has been performed.

Note: 1- Cat 6 Patch Cord per WAP, 1- Cat 6 Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod and swivel

application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements.

Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Pajarito Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required- 4

HP Power Supply (JD362B) Total Required- 8

Aruba 48G Copper Switch (JL322A) Total Required- 4

Aruba 24G Copper Switch (JL320A) Total Required- 8

Aruba Power Supply (JL087A) Total required- 12

Aruba Stacking Module (JL325A) Total Required- 2
Aruba Stacking Cable (J9734A) Total Required- 1
Fiber SFP LC SX (JD118B) Total Required- 44
Fiber SFP LC SX (J4858C) Total Required- 11
Aruba WAP 515 (Q9H63A) Total Required- 5

Wireless Summary

Install (5) Cat 6 Data Drops in center of rooms for new Aruba 515 WAP's
Install (22) Cat 6 Data Drops in center of rooms / Relocate existing WAP.
Provide (27) Ceiling Mounts for Aruba WAP's.

Note: Coordinate with APS IT prior to installation. Refer to
APS IT wireless installation specifications requirements.

MDF 1.0- STORAGE U127: Install (2) HP Fiber Switches (JG933A), and (26) Fiber SFP's LC SX (JD118B), (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 1.01- RM. 128: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0- RM. 302: Install (1) HP Fiber Switch (JG933A), and (8) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- RM. 313: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- RM. 314: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- RM. 201: Install (1) HP Fiber Switch (JG933A), and (10) Fiber SFP's LC SX (JD118B), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- RM. 209: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- RM. 214: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Portables

Sub IDF D267- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D264- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D321- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

PAPA High

Electronics Summary

HP Fiber Switch (JG933A) Total Required-1
HP Power Supply (JD362B) Total Required- 2
Aruba 48G Copper Switch (JL322A) Total Required- 4
Aruba 24G Copper Switch (JL320A) Total Required- 4
Aruba Power Supply (JL087A) Total required-8
Aruba Stacking Module (JL325A) Total Required- 4
Aruba Stacking Cable (J9734A) Total Required- 2
Fiber SFP LC SX (JD118B) Total Required- 8
Fiber SFP LC SX (J4858C) Total Required-6
Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 32
Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required-6
Commscope/Uniprise Cat 6 Data Drops: Total required- 11

MDF/IDF/Sub IDF/SW IP Designation/SW Port Designation

MDF 1.0- SW 1 (24): IP .10: 8 LC SFP's.

MDF 1.0- SW 2 (24): IP .11: 2-10 Yellow, 11,12 Gray, 13,14,16,23 Blue, 24 Red
1,15,17-22 Open

MDF 1.0- SW 3 (48): IP .12: 17 Gray, 48 Red, Rest are White

IDF 2.0- SW 1 (24): IP .20: 1,2,3 Yellow, 7-12,15,16,18 White, Rest Open

IDF 3.0- SW 1 (48): IP .30: 1-12, 14-40(Even) White, 13 Yellow, Rest are Open.

IDF 4.0- SW 1 (48): IP .40: All White.

IDF 4.0- SW 2 (24): IP .41: 2,4,6,8,10,12 Yellow, 23 Red, Rest White

IDF 5.0- SW 1 (48): IP .50: 1 Yellow, 2-26 Blue/White, Rest Open.

IDF 7.0- SW 1 (24): IP .70: 1,9 Yellow, Rest are white.

MDF 1.0- Comm. Rm: Install (1) HP Fiber Switch (JG933A), (8) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C), (1) Aruba 24G Copper Switch (JL320A), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cables (J9734A), (2) Cat 6 Data Drops, (1) Cat 6 48 Port Patch Panel.

Rm 1: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm 2: Remove HP WAP/Replace w/ Aruba WAP.

Rm 3: Remove HP WAP/Replace w/ Aruba WAP.

Rm 4: Remove HP WAP/Replace w/ Aruba WAP.

Rm 5: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm 6: Remove HP WAP/Replace w/ Aruba WAP.

Rm 7: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm 8: Remove HP WAP/Replace w/ Aruba WAP.

Rm 9: Remove HP WAP/Replace w/ Aruba WAP.

Rm 10: Remove HP WAP/Replace w/ Aruba WAP.

Rm 11: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm 12: Remove HP WAP/Replace w/ Aruba WAP.

Cafeteria: Remove HP WAP/Replace w/ Aruba WAP.

IDF 2.0- Rm 19: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (1) Cat 6 48 port patch panel, (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm 20: Remove HP WAP/Replace w/ Aruba WAP.

Rm 21: Remove HP WAP/Replace w/ Aruba WAP.

Rm 22: Remove HP WAP/Replace w/ Aruba WAP.

IDF 3.0- Computer Lab: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C), (1) Cat 6 48 Port Patch Panel, Remove HP WAP/Replace w/ Aruba WAP.

4.0- Rm 17: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C), (1) Aruba 24G Copper Switch (JL320A), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cables (J9734A), (1) Cat 6 48 Port Patch Panel, (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm 13: Remove HP WAP/Replace w/ Aruba WAP.

Rm 14: Remove HP WAP/Replace w/ Aruba WAP.

Rm 15: Remove HP WAP/Replace w/ Aruba WAP.

Rm 16: Remove HP WAP/Replace w/ Aruba WAP.

Rm 18: Remove HP WAP/Replace w/ Aruba WAP.

Rm 23 Hallway: Remove HP WAP/Replace w/ Aruba WAP.

IDF 5.0- Storeroom A-109: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C), (1) Cat 6 48 port patch panel.

Admin: Remove HP WAP/Replace w/ Aruba WAP.

IDF 6.0- Gym: Remove HP WAP/Replace w/ Aruba WAP.

IDF 7.0- Media Ctr: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (1) Cat 6 48 port patch panel, (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

.

Portables

Sub IDF SC-352: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-642: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of the room, at 10' a.f.f. per APS District Standards. Demo existing WAP drops back to the patch panels in respective IDF's. Demo of old and abandoned cables per NEC code. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold applications, which may include complying with fire blocking requirements per NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. If the WAP is already installed in the center of the room, install (1) Cat 6 drop to existing location. All WAP patch cords must be labeled with TO port designation. Example: 2.0-1-12. Coordinate with APS IT on label installation requirements. Clean all areas after work has been performed.

Note: 1- Cat 6 Patch Cord per WAP, 1- Cat 6 Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod and swivel application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements.

Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Reginald Chavez Elementary

Electronics Summary

Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 41
Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required-5
Commscope/Uniprise Cat 6 Data Drops: Total required- 7

MDF – Comm. Rm: Install (2) Cat 6 Data Drops, (1) Cat 6 48 port patch panel.

IDF 2.0 – Elect. Rm: Install (1) Cat 6 48 port patch panel.

Lounge: Remove HP WAP/Replace w/ Aruba WAP.

Nurse's Office: Remove HP WAP/Replace w/ Aruba WAP.

Admin: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 100: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 101: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 102: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 103: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 104(Sub-IDF 2.06): Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 105: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 106: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 107: Remove HP WAP/Replace w/ Aruba WAP.

Cafeteria (Sub-IDF 2.07): Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Gym: Install (1) Cat 6 Data Drop (Sub-IDF 2.07)/ New Aruba WAP w/mounting bracket in center of Coach's Office.

IDF 3.0 - Rm. 207: Install (1) Cat 6 48 port patch panel, (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP, Install down rod swivel application.

Rm. 202: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 203(Sub-IDF 3.04): Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP, Install down rod swivel application.

Rm. 204: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 205: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 206: Remove HP WAP/Replace w/ Aruba WAP.

IDF 7.0 - Media Center: Install (1) Cat 6 48 port patch panel, Remove (2) HP WAP's/Replace w/ (2) Aruba WAP's, Install (2) down rod swivel applications.

IDF 6.0 – TR 132: Install (1) Cat 6 48 port patch panel.

North Hallway: Remove HP WAP/Replace w/ Aruba WAP.

Center Hallway: Remove HP WAP/Replace w/ Aruba WAP.

South Hallway: Remove HP WAP/Replace w/ Aruba WAP.

Rm. B102: Remove HP WAP/Replace w/ Aruba WAP.

Rm. B103: Remove HP WAP/Replace w/ Aruba WAP.

Rm. B104: Remove HP WAP/Replace w/ Aruba WAP.

Rm. B105: Remove HP WAP/Replace w/ Aruba WAP.

Rm. B108: Remove HP WAP/Replace w/ Aruba WAP.

Rm. B109: Install (1) Cat 6 Data Drop (IDF 8.0)/ New Aruba WAP w/mounting bracket at designated location.

Rm. B110: Remove HP WAP/Replace w/ Aruba WAP.

Rm. B111: Remove HP WAP/Replace w/ Aruba WAP.

Rm. B114: Remove HP WAP/Replace w/ Aruba WAP.

Rm. B115: Remove HP WAP/Replace w/ Aruba WAP.

Rm. B116: Remove HP WAP/Replace w/ Aruba WAP.

Rm. B117: Remove HP WAP/Replace w/ Aruba WAP.

Rm. B118: Remove HP WAP/Replace w/ Aruba WAP, Install down rod swivel application.

Rm. B119: Remove HP WAP/Replace w/ Aruba WAP.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of the room, at 10' a.f.f. per APS District Standards. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold applications, which may include complying with fire blocking requirements per NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. All WAP patch cords must be labeled with TO port designation. Example: 2.0-1-12. Coordinate with APS IT on label installation requirements. Clean all areas after work has been performed.

Note: 1- Cat 6 Patch Cord per WAP, 1- Cat 6 Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod and swivel application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements.

Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Rudolfo Anaya Elementary

Electronics Summary

Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 70
Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required - 5
Commscope/Uniprise Cat 6 Data Drops: Total required- 28

MDF – Comm. Rm: Install (2) Cat 6 Data Drops, 1 - 48 Port Patch Panel.

Cafeteria: Remove HP WAP/Replace w/ Aruba WAP.

Gym: Remove HP WAP/Replace w/ Aruba WAP.

Media Center: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 2.0: Install 1 - 48 Port Patch Panel.

Rm. 142: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 143: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 144: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 145: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 146: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 147: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 148: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 149: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 152: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 153: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 154: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.
Rm. 155: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 156: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 157: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.
Rm. 158: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 159: Remove HP WAP/Replace w/ Aruba WAP.

IDF 3.0: Install 1 - 48 Port Patch Panel.

Rm. 42: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 42A: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 43: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 44: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 45: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.
Rm. 46: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.
Rm. 47: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 48: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 49: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 52: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 53: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.
Rm. 54: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 55: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 56: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.
Rm. 57: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 58: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 59: Remove HP WAP/Replace w/ Aruba WAP.

IDF 4.0: Install 1 - 48 Port Patch Panel.

School Store: Remove HP WAP/Replace w/ Aruba WAP.

Reception: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Admin Hallway: Remove HP WAP/Replace w/ Aruba WAP.

IDF 5.0: Install 1 - 48 Port Patch Panel.

Rm. 123: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 124: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 127: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 128: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 129: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 130: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 133: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 134: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Portables

Portable P-1: Remove HP WAP/Replace w/ Aruba WAP.

Portable P-2: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Portable P-3: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Portable P-4: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Portable P-5: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Portable P-6: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Portable P-7: Remove HP WAP/Replace w/ Aruba WAP.

Portable P-8: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Portable P-9: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Portable P-10: Remove HP WAP/Replace w/ Aruba WAP.

Portable P-11: Remove HP WAP/Replace w/ Aruba WAP.

Portable P-12: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Portable P-13: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Portable P-14: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Portable P-15: Remove HP WAP/Replace w/ Aruba WAP.

Portable P-16: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Portable P-17: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP

Portable P-18: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Portable P-19: Remove HP WAP/Replace w/ Aruba WAP.

Portable P-20: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Portable P-21: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of the room, at 10' a.f.f. per APS District Standards. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold applications, which may include complying with fire blocking requirements per NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. All WAP patch cords must be labeled with TO port designation. Example: 2.0-1-12. Coordinate with APS IT on label installation requirements. Clean all areas after work has been performed.

Note: 1- Cat 6 Patch Cord per WAP, 1- Cat 6 Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod and swivel application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements.

Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

San Antonito Elementary

Electronics Summary

Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 33
Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required-8
Commscope/Uniprise Cat 6 Data Drops: Total required- 13

MDF 1.0- NO RM. #: Install (1) Cat 6 48 port patch panel/ Install (2) Cat 6 Data Drops.

Art Rm. Remove HP WAP/Replace w/ Aruba WAP.

Office-No Rm. # Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 2.0- OFFICE 6B: Install (3) Cat 6 Data Drops. Install (1) Cat 6 48 port patch panel.

Rm. 1 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 2 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 3 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 4 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 5 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 6 Remove HP WAP/Replace w/ Aruba WAP.

Library Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 3.0- LOUNGE: Install (1) Cat 6 48 port patch panel.

Secretary Remove HP WAP/Replace w/ Aruba WAP.

IDF 4.0- RM. COMPUTER LAB: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install (1) Cat 6 48 port patch panel.

Rm. RM-10 Remove HP WAP/Replace w/ Aruba WAP.

IDF 5.0- NO RM. #: Install (1) Cat 6 48 port patch panel/ Remove HP WAP/Replace w/ Aruba WAP.

IDF 6.0- CONFERENCE NP-213

Multi-purpose NP-201 Remove HP WAP/Replace w/ Aruba WAP.

IDF 7.0- NO RM. #: Install (4) Cat 6 Data Drops. Install (1) Cat 6 48 port patch panel.

RM. 101 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 102 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 103 Remove HP WAP/Replace w/ Aruba WAP.

RM. 104 Remove HP WAP/Replace w/ Aruba WAP.

RM. 105 Remove HP WAP/Replace w/ Aruba WAP.

RM. 106 Remove HP WAP/Replace w/ Aruba WAP.

RM. 107 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 109 Install (1) Cat 6 Data Drop/ Add new Aruba WAP to center of room.

IDF 8.0- NO RM. #: Install (2) Cat 6 Data Drops. Install (1) Cat 6 48 port patch panel.

RM. 201 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 202 Remove HP WAP/Replace w/ Aruba WAP.

RM. 203 Remove HP WAP/Replace w/ Aruba WAP.

RM. 204 Remove HP WAP/Replace w/ Aruba WAP.

RM. 205 Remove HP WAP/Replace w/ Aruba WAP.

RM. 206 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

RM. 208 STEM Remove HP WAP/Replace w/ Aruba WAP.

Portables

Sub IDF SC-287- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of the room, at 10' a.f.f. per APS District Standards. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold applications, which may include complying with fire blocking requirements per NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. All WAP patch cords must be labeled with TO port designation. Example: 2.0-1-12. Coordinate with APS IT on label installation requirements. Clean all areas after work has been performed.

Note: 1- Cat 6 7' Patch Cord per WAP, 1- Cat 6 7' Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod

and swivel application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements.

Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW. Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

School on Wheels High

Electronics Summary

Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 17
Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required-4
Commscope/Uniprise Cat 6 Data Drops: Total required- 7

MDF 1.0- CUSTODIAN U-123: Install (1) Cat 6 48 port patch panel/ Install (7) Cat 6 Data Drops.

Rm. 101 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 102 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Lounge Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 104 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 106 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 107 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 108 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 111 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 2.0- RM. 109: Install (1) Cat 6 48 port patch panel/ Remove HP WAP/Replace w/ Aruba WAP.

IDF 3.0- RM. 110: Install (1) Cat 6 48 port patch panel. Remove HP WAP/Replace w/ Aruba WAP.

IDF 4.0- NO RM. #: Install (1) Cat 6 Data Drop/ Install (1) Cat 6 48 port patch panel/ Remove HP WAP/Replace w/ Aruba WAP.

Shop Remove HP WAP/Replace w/ Aruba WAP.

Portables

Sub IDF D-338: Install (1) Cat 6 Data Drop/Replace HP WAP with Aruba WAP/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF D-315: Remove HP WAP/Replace w/ Aruba WAP.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of the room, at 10' a.f.f. per APS District Standards. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold applications, which may include complying with fire blocking requirements per NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. All WAP patch cords must be labeled with TO port designation. Example: 2.0-1-12. Coordinate with APS IT on label installation requirements. Clean all areas after work has been performed.

Note: 1- Cat 6 7' Patch Cord per WAP, 1- Cat 6 7' Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod and swivel application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements.

Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW. Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Sombra Del Monte Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-2
HP Power Supply (JD362B) Total Required- 4
Aruba 48G Copper Switch (JL322A) Total Required- 4
Aruba 24G Copper Switch (JL320A) Total Required- 6
Aruba Power Supply (JL087A) Total required- 10
Aruba Stacking Module (JL325A) Total Required- 6
Aruba Stacking Cable (J9734A) Total Required- 3
Fiber SFP LC SX (JD118B) Total Required- 22
Fiber SFP LC SX (J4858C) Total Required-8

Wireless Summary

Install (38) Cat 6 Data Drops in center of room / Relocate existing WAP.

Provide (38) Ceiling Mounts

Note: Coordinate with APS IT prior to installation. Refer to APS IT wireless installation specifications requirements.

MDF 1.0- No Rm. #: Install (1) HP Fiber Switch (JG933A), and (11) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch

(JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 1.01- Workroom: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0- RM. 304: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- RM. 111: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 4.0- RM. 205: Install (1) HP Fiber Switch (JG933A), and (11) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

IDF 6.0- M.P.R.M: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- Electrical Rm.: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 8.0- RM. 208: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking

team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Sunset View Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-1
HP Power Supply (JD362B) Total Required-2
Aruba 48G Copper Switch (JL322A) Total Required - 11
Aruba 24G Copper Switch (JL320A) Total Required - 1
Aruba Power Supply (JL087A) Total required-12
Aruba Stacking Module (JL325A) Total Required- 10
Aruba Stacking Cable (J9734A) Total Required- 5
Fiber SFP LC SX (JD118B) Total Required- 9
Fiber SFP LC SX (J4858C) Total Required-8

MDF - COMMROOM: Install (1) HP Fiber Switch (JG933A), (8) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

Sub-IDF 1.01 - COMPUTER LAB: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0 - ROOM 150A: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 3.0 - ROOM 50A: Install (3) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (4) Aruba Stacking Modules (JL325A), (2) Aruba Stacking Cables (J9734A).

IDF 4.0- TR 121A: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 5.0- TR 135: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Tierra Antigua Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-1
HP Power Supply (JD362B) Total Required-2
Aruba 48G Copper Switch (JL322A) Total Required - 11
Aruba 24G Copper Switch (JL320A) Total Required - 7
Aruba Power Supply (JL087A) Total required-18
Aruba Stacking Module (JL325A) Total Required- 12
Aruba Stacking Cable (J9734A) Total Required- 6
Fiber SFP LC SX (JD118B) Total Required- 18
Fiber SFP LC SX (J4858C) Total Required-14

MDF - COMMROOM: Install (1) HP Fiber Switch (JG933A), (18) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch

(JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

Sub-IDF 1.01 - COMPUTER LAB: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0 - ROOM 150A: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 3.0 - ROOM 50A: Install (3) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (4) Aruba Stacking Modules (JL325A), (2) Aruba Stacking Cables (J9734A).

IDF 4.0- TR 121A: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 5.0- TR 135: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 6.0- SOCCER FIELD: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Portables

Portable D-214: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Portable D-251: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Portable D-331: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Portable SC-539: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Portable D-174: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Tomasita Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required- 2
HP Power Supply (JD362B) Total Required- 4
Aruba 48G Copper Switch (JL322A) Total Required- 7
Aruba 24G Copper Switch (JL320A) Total Required- 9
Aruba Power Supply (JL087A) Total required- 16
Aruba Stacking Module (JL325A) Total Required- 6
Aruba Stacking Cable (J9734A) Total Required- 3
Fiber SFP LC SX (JD118B) Total Required- 19
Fiber SFP LC SX (J4858C) Total Required- 13

Wireless Summary

Install (19) Cat 6 Data Drops in center of room / Relocate existing WAP.

Provide (19) Ceiling Mounts

Note: Coordinate with APS IT prior to installation. Refer to

APS IT wireless installation specifications requirements.

MDF 1.0- NURSE OFFICE: Install (1) HP Fiber Switch (JG933A), and (10) Fiber SFP's LC SX (JD118B). (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0- FILE ROOM: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 3.0- ELECTRICAL ROOM ON OUTSIDE OF GYM BLDG.: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 4.0- RM. 108: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- RM. 120 (LOUNGE): Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- RM. 125: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 7.0- RM. 126: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 8.0- M-165 (OFFICE): Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 9.0- RM. 135: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 10.0- RM. 136: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Portables

Sub IDF EA-1- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D129- Install (1) HP Fiber Switch (JG933A), and (9) Fiber SFP's LC SX (JD118B), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF D136- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW. Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Tony Hillerman Middle

Electronics Summary

HP Fiber Switch (JG933A) Total Required -1
HP Power Supply (JD362B) Total Required -2
Aruba 48G Copper Switch (JL322A) Total Required - 20
Aruba 24G Copper Switch (JL320A) Total Required - 6
Aruba Power Supply (JL087A) Total Required - 26
Aruba Stacking Module (JL325A) Total Required - 30
Aruba Stacking Cable (J9734A) Total Required - 15
Fiber SFP LC SX (JD118B) Total Required - 11
Fiber SFP LC SX (J4858C) Total Required - 13

MDF - COMMROOM: Install (1) HP Fiber Switch (JG933A), and (11) Fiber SFP's LC SX (JD118B), (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Module (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 2.0 - TR ROOM 109-B: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Module (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 3.0 - TR ROOM 115-A: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Module (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 4.0 - TR ROOM 133-C: Install (3) Aruba 48G Copper Switches (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (6) Aruba Stacking Modules (JL325A), (3) Aruba Stacking Cables (J9734A).

IDF 5.0 - TR ROOM 155: Install (2) Aruba 48G Copper Switches (JL322A), (1) Aruba 24G Copper Switch (JL320A), (2) Fiber SFP's LC SX (J4858C), (4) Aruba Stacking Modules (JL325A), (2) Aruba Stacking Cables (J9734A).

Sub-IDF 5.01 - LAB ROOM 164: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 6.0 - TR ROOM 251-A: Install (4) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (6) Aruba Stacking Modules (JL325A), (3) Aruba Stacking Cables (J9734A).

IDF 7.0 - TR ROOM 213: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 8.0 - TR ROOM 249: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 9.0 - TR ROOM 255-A: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 10.0 – GYM STORAGE ROOM G-129: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Truman Middle School

Electronics Summary

Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 106

Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required- 12

Commscope/Uniprise Cat 6 Data Drops: Total required- 42

MDF – Comm. Rm: Install (9) Cat 6 Data Drops, (1) Cat 6 48 port patch panel.

Rm. 208 Sub-IDF1.01: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 109: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 110: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 200: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 205: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 206: Remove HP WAP/Replace w/ Aruba WAP.
Rm. 207: Remove HP WAP/Replace w/ Aruba WAP.
Library Sub-IDF1.05: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 2.0 – Multi-Purpose: Install (1) Cat 6 48 port patch panel, (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 3.0 – Counselor Office: Install (1) Cat 6 48 port patch panel, (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Reception Sub-IDF3.01: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Nurse's Office: Remove HP WAP/Replace w/ Aruba WAP.

Admin Hallway: Remove HP WAP/Replace w/ Aruba WAP.

Work Rm: Remove HP WAP/Replace w/ Aruba WAP.

Lounge: Remove HP WAP/Replace w/ Aruba WAP.

IDF 4.0 – Rm304 Storage: Install (1) Cat 6 48 port patch panel.

Rm. 300 Sub-IDF4.03: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP, Install down rod swivel application.

Rm. 301: Remove HP WAP/Replace w/ Aruba WAP, leave on wall, special use room.

Rm. 302: Remove HP WAP/Replace w/ Aruba WAP, Install down rod swivel application.

Rm. 303 Sub-IDF4.05: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP, Install down rod swivel application.

Rm. 304: Remove HP WAP/Replace w/ Aruba WAP, leave on wall, special use room.

Rm. 305: Remove HP WAP/Replace w/ Aruba WAP, leave on wall, special use room.

IDF 5.0 - Coach's Office (W): Install (1) Cat 6 48 port patch panel.

Coach's Office (M): Remove HP WAP/Replace w/ Aruba WAP.

Coach's Office (W): Remove HP WAP/Replace w/ Aruba WAP.

Gym Storage: Remove HP WAP/Replace w/ Aruba WAP.

IDF 6.0 - Rm. 107: Install (1) Cat 6 48 port patch panel, (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 101: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 102: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 103: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 104 Sub-IDF6.02: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP, Install down rod swivel application.

Rm. 105: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 106: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 108: Remove HP WAP/Replace w/ Aruba WAP.

IDF 7.0 - Rm. 201: Install (1) Cat 6 48 port patch panel, Remove HP WAP/Replace w/ Aruba WAP.

Rm. 111: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 112 Sub-IDF7.02: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 202: Remove HP WAP/Replace w/ Aruba WAP.

IDF 8.0 - Rm. 204: Install (1) Cat 6 48 port patch panel, Remove HP WAP/Replace w/ Aruba WAP.

Rm. 203: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 114: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 113: Remove HP WAP/Replace w/ Aruba WAP.

IDF 9.0 Rm. 213: Install (1) Cat 6 48 port patch panel, Remove HP WAP/Replace w/ Aruba WAP.

Rm. 214: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 215: Remove HP WAP/Replace w/ Aruba WAP.

IDF 10.0 Rm. 209: Install (1) Cat 6 48 port patch panel, Remove HP WAP/Replace w/ Aruba WAP.

Rm. 210: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 211: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 212 Sub-IDF10.03: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 11.0- 1st Fl. IDF: Install (1) Cat 6 48 port patch panel.

Office 401A: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 402: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 403: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 404: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 405: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP, Install down rod swivel application.

Rm. 407: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 408A: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP, Install down rod swivel application. :

Rm. 408C: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 409: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP, Install down rod swivel application.

IDF 12.0- 2nd Fl. IDF: Install (1) Cat 6 48 port patch panel.

Rm. 421: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP, Install down rod swivel application.

Rm. 422: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 423: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 424: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 425: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP, Install down rod swivel application.

Rm. 426: Remove HP WAP/Replace w/ Aruba WAP.

Rm. 427: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP, Install down rod swivel application.

Rm. 428: Remove HP WAP/Replace w/ Aruba WAP.

Portables

SC-579: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

SC-609: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

SC-223: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

SC-573: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

SC-194: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install 1" e.m.t. raceway (30').

SC-640: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

E-43 B7: Remove HP WAP/Replace w/ Aruba WAP.

B8: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

E-47 B9: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

B10: Remove HP WAP/Replace w/ Aruba WAP.

D-227 B12: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

B13: Remove HP WAP/Replace w/ Aruba WAP.

E-26 B14: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

E-26 B16: Remove HP WAP/Replace w/ Aruba WAP.

D-145 B18: Remove HP WAP/Replace w/ Aruba WAP.

B19: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

SC-325: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

SC-776: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

GS-1: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

SC-541: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

SC-153: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install 1" e.m.t. raceway (30').

SC-254: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install 1" e.m.t. raceway (30').

D-510 B25: Remove HP WAP/Replace w/ Aruba WAP.

B26: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

SC-808: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

SC-177: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install 1" e.m.t. raceway (30').

SC-784: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

D-106 C4: Remove HP WAP/Replace w/ Aruba WAP.

C5: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

D-348 C2: Remove HP WAP/Replace w/ Aruba WAP.

C3: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

LD-4 D1: Remove HP WAP/Replace w/ Aruba WAP.

D2: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of the room, at 10' a.f.f. per APS District Standards. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold applications, which may include complying with fire blocking requirements per NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. All WAP patch cords must be labeled with TO port designation. Example: 2.0-1-12. Coordinate with APS IT on label installation requirements. Clean all areas after work has been performed.

Note: 1- Cat 6 Patch Cord per WAP, 1- Cat 6 Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod and swivel application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements.

Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Washington Middle

Electronics Summary

HP Fiber Switch (JG933A) Total Required-5
HP Power Supply (JD362B) Total Required- 10
Aruba 48G Copper Switch (JL322A) Total Required- 10
Aruba 24G Copper Switch (JL320A) Total Required- 9
Aruba Power Supply (JL087A) Total required- 19
Aruba Stacking Module (JL325A) Total Required- 6
Aruba Stacking Cable (J9734A) Total Required- 3
Fiber SFP LC SX (JD118B) Total Required- 46

Fiber SFP LC SX (J4858C) Total Required-46

Wireless Summary

Install (41) Cat 6 Data Drops in center of room / Relocate existing WAP.

Provide (41) Ceiling Mounts

Note: Coordinate with APS IT prior to installation. Refer to APS IT wireless installation specifications requirements.

MDF 1.0- WORK RM. 116: Install (1) HP Fiber Switch (JG933A), and (15) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), and (1) Aruba Stacking Cable (J9734A).

Sub IDF 1.01- TEL/CO: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.02- RM. L-3: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 1.04- RM. L-2: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0- Lounge: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

Sub IDF 2.02- RM. 204: Install (1) Aruba 48G Copper Switch (JL322A), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 3.0- Band Storage: Install (1) HP Fiber Switch (JG933A), and (7) Fiber SFP's LC SX (JD118B).

IDF 4.0- RM. 301: Install (1) HP Fiber Switch (JG933A), and (10) Fiber SFP's LC SX (JD118B), (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 4.01- Cafe: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 4.02- Nurse: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 5.0- 126: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 6.0- RM. 117: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0- RM. L-1: Install (1) HP Fiber Switch (JG933A), and (7) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 7.05- RM. 110: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 8.0- Storage: Install (1) HP Fiber Switch (JG933A), and (7) Fiber SFP's LC SX (JD118B).

IDF 9.0- RM. 109: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 9.01- RM. 111: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub IDF 9.02- RM. 113: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Wherry Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required -1
HP Power Supply (JD362B) Total Required -2
Aruba 48G Copper Switch (JL322A) Total Required - 12
Aruba 24G Copper Switch (JL320A) Total Required - 1
Aruba Power Supply (JL087A) Total required - 13
Aruba Stacking Module (JL325A) Total Required - 8
Aruba Stacking Cable (J9734A) Total Required - 4
Fiber SFP LC SX (JD118B) Total Required - 13
Fiber SFP LC SX (J4858C) Total Required - 10

MDF - COMMROOM: Install (1) HP Fiber Switch (JG933A), and (13) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub-IDF 1.01 - STORAGE ROOM W101: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

Sub-IDF 1.02 – MEDIA CENTER: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 2.0 - 1st FL. TR ROOM: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Module (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 3.0 - TR ROOM 115-A: Install (2) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (2) Aruba Stacking Module (JL325A), (1) Aruba Stacking Cable (J9734A).

IDF 4.0 – 2ND FL. TR ROOM Install (3) Aruba 48G Copper Switches (JL322A), (1) Fiber SFP LC SX (J4858C), (4) Aruba Stacking Modules (JL325A), (2) Aruba Stacking Cables (J9734A).

IDF 6.0 – KINDER WING MECH ROOM: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

IDF 7.0 - CAFETERIA: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

IDF 10.0 – WEST BLDG. TR ROOM: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C).

School Scope of Work

Remove and replace existing fiber and copper switches, with new Aruba switches. Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.

Whittier Elementary

Electronics Summary

HP Fiber Switch (JG933A) Total Required-2
HP Power Supply (JD362B) Total Required -4
Aruba 48G Copper Switch (JL322A) Total Required- 6
Aruba 24G Copper Switch (JL320A) Total Required- 18
Aruba Power Supply (JL087A) Total required – 24
Aruba Stacking Module (JL325A) Total Required- 2
Aruba Stacking Cable (J9734A) Total Required- 1
Fiber SFP LC SX (JD118B) Total Required- 33
Fiber SFP LC SX (J4858C) Total Required-35
Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 56
Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required-7
Commscope/Uniprise Cat 6 Data Drops: Total required- 40

MDF/IDF/Sub IDF/SW IP Designation/SW Port Designation

MDF 1.0- SW 1 (24): IP .10: 17 LC SFP's.

MDF 1.0- SW 2 (24): IP .18: 16 LC SFP's

MDF 1.0- SW 3 (48): IP .13: 5 Black, 1-4,6-42,44-47 Blue, 43 Green

MDF 1.0- SW 4 (24): IP .19: 1 Yellow, 2-5,8 Green, 6 Blue, 7 Purple, Rest are Open

Sub-IDF 1.01- (24): IP .11: 3 Yellow, Rest Blue

Sub-IDF 1.02- (24): IP .12: 1-12 Blue, 13 White

Sub-IDF 1.03- (24): IP .17: 1-12 Blue, 17 Green, 18 Yellow

Sub-IDF 1.04- (24): IP .104: 1 Green, 2-13 Blue

Sub-IDF 1.05- (24): IP .15: 1-12,24 Blue

Sub-IDF 1.06- (24): IP .16: 1-12,24 Blue

IDF 2.0- (24): IP .20: 1-8,13-19 Blue, 20 White, Rest Open.

Sub-IDF 2.02- (24): IP .22: 1-12 Blue, 13 Yellow, 14-24 Open.

IDF 4.0- (24): IP .40: 1-6,8,9,13-18,21,22 Blue, 7,19 White.

Sub-IDF 4.01- (24): IP .41: 1-12 Blue, 13 White

Sub-IDF 4.02- (24): IP .42: 1-12 Blue, 13 White

Sub-IDF 4.03- (24): IP .43: 1-12 Blue, 13 White

IDF 5.0- (48): IP .50: 1-22,25,26,45 Blue, 28 White, Rest are Open.

IDF 6.0- (48): IP .60: 1-24 Blue, 25 White, 26,27 Green, Rest are Open.

IDF 7.0- (48): IP .70: 1-18 White, 19,33-37 Green, 29,31,32 Yellow, Rest are Open.

IDF 8.0- SW 1 (48): IP .80: 2 Switches will be consolidated into one.

Sub-IDF 8.01- (48): IP .81: 2 Switches will be consolidated into one.

Sub-IDF D-274- (24): IP .200: 1 White, 17 Green, Rest Blue.

Sub-IDF D-489- (24): IP .202: 17 Green, Rest Blue

Sub-IDF D-490- (24): IP .201: All Blue.

MDF 1.0- Comm. Rm: Install (2) HP Fiber Switches (JG933A), (33) Fiber SFP's LC SX (JD118B), (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C) (1) Aruba 24G Copper Switch (JL320A), (2) Aruba Stacking Modules (JL325A), (1) Aruba Stacking Cable (J9734A), (9) Cat 6 Data Drops, (1) Cat 6 48 Port Patch Panel.

Rm 206: Remove HP WAP/Replace w/ Aruba WAP.

Rm 206A: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub-IDF 1.01-Rm205- : Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), Remove HP WAP/Replace w/ Aruba WAP.

Sub-IDF 1.02-Rm203- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub-IDF 1.03-Rm201- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), Remove HP WAP/Replace w/ Aruba WAP.

Sub-IDF 1.04-Rm202- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C).

Sub-IDF 1.05-Rm202- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), Remove HP WAP/Replace w/ Aruba WAP.

Sub-IDF 1.06-Rm204- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), Remove HP WAP/Replace w/ Aruba WAP.

IDF 2.0- Rm 207- Install (1) Aruba 24G Copper Switch (JL320A), (4) Fiber SFP's LC SX (J4858C), (1) Cat 6 48 port patch panel, (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub-IDF 2.01-Rm208- Remove HP WAP/Replace w/ Aruba WAP.

Sub-IDF 2.02-Rm210- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), Remove HP WAP/Replace w/ Aruba WAP.

Sub-IDF 2.03-Rm209- Remove HP WAP/Replace w/ Aruba WAP.

IDF 3.0- Gym: Remove HP WAP/Replace w/ Aruba WAP.

IDF 4.0- Rm 103- Install (1) Aruba 24G Copper Switch (JL320A), (4) Fiber SFP's LC SX (J4858C), (1) Cat 6 48 port patch panel, (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Work Rm.- Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub-IDF 4.01-Rm101- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), Remove HP WAP/Replace w/ Aruba WAP.

Sub-IDF 4.02-Rm102- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), Remove HP WAP/Replace w/ Aruba WAP.

Sub-IDF 4.03-Rm104- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), Remove HP WAP/Replace w/ Aruba WAP.

IDF 5.0- Work Rm. A-111- Install (1) Aruba 48G Copper Switch (JL322A), (3) Fiber SFP's LC SX (J4858C), (1) Cat 6 48 port patch panel.

Office: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install down rod swivel application.

Sub-IDF 5.01-Rm108- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), Remove HP WAP/Replace w/ Aruba WAP.

Sub-IDF 5.02-Rm107- Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), Remove HP WAP/Replace w/ Aruba WAP.

IDF 6.0- Media Center- Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C), (1) Cat 6 48 port patch panel, (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

IDF 7.0- Kinder Wing- Install (1) Aruba 48G Copper Switch (JL322A), (2) Fiber SFP's LC SX (J4858C), (1) Cat 6 48 port patch panel.

Rm K-101: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install down rod swivel application.

Rm K-105: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install down rod swivel application.

Rm K-108: Install (1) Cat 6 Data Drop/ 1 Aruba WAP. Install down rod swivel application.

Rm K-112: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install down rod swivel application.

Rm K-115: Remove HP WAP/Replace w/ Aruba WAP.

Rm K-119: Remove HP WAP/Replace w/ Aruba WAP.

Sub-IDF 7.01-Multi-PurposeRm: Install (1) Cat 6 Data Drop/ 1 Aruba WAP.

IDF 8.0- Rm 34: Install (1) Aruba 48G Copper Switch (JL322A), (2) Fiber SFP's LC SX (J4858C), (1) Cat 6 48 port patch panel, (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install 1" e.m.t. raceway (30') / down rod swivel application.

Rm 31: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install 1" e.m.t. raceway (30') / down rod swivel application.

Sub-IDF 8.01- Rm 33: Install (1) Aruba 48G Copper Switch (JL322A), (1) Fiber SFP LC SX (J4858C), (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install 1" e.m.t. raceway (30') / down rod swivel application.

Rm 32: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install 1" e.m.t. raceway (30') / down rod swivel application.

IDF 9.0- Cafeteria: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install 1" e.m.t. raceway (30') / down rod swivel application.

Portables

Sub IDF SE-3: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-209: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install 1" e.m.t. raceway (30').

Sub IDF SC-188: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install 1" e.m.t. raceway (30').

Sub IDF SC-306: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-144: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install 1" e.m.t. raceway (30').

Sub IDF SC-297: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-568: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP. Install 1" e.m.t. raceway (30').

Sub IDF SC-625: Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF D-274: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), **M:** Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP, **N:** Install (1) Cat 6 Data Drop/ 1 Aruba WAP.

Sub IDF D-489: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), **G-1:** Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP, **H-1:** Install (1) Cat 6 Data Drop/ 1 Aruba WAP.

Sub IDF D-490: Install (1) Aruba 24G Copper Switch (JL320A), (1) Fiber SFP LC SX (J4858C), **J-1:** Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP, **I-1:** Install (1) Cat 6 Data Drop/ 1 Aruba WAP.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of the room, at 10' a.f.f. per APS District Standards. Demo existing WAP drops back to the patch panels in respective IDF's. Demo of old and abandoned cables per NEC code. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold applications, which may include complying with fire blocking requirements per NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. If the WAP is already installed in the center of the room, install (1) Cat 6 drop to existing location. All WAP patch cords must be labeled with TO port designation. Example: 2.0-1-12. Coordinate with APS IT on label installation requirements. Clean all areas after work has been performed.

Note: 1- Cat 6 Patch Cord per WAP, 1- Cat 6 Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod and swivel application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements. **Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW. Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.**

Wilson Middle

Electronics Summary

Aruba WAP's (Q9H63A) w/Mounts (R1C72A) Total Required- 81
Commscope/Uniprise Cat 6 48 Port Patch Panels: Total Required-6
Commscope/Uniprise Cat 6 Data Drops: Total required- 32

MDF 1.0- NO RM. #: Install (1) Cat 6 48 port patch panel/ Install (11) Cat 6 Data Drops.

Work Rm. 173 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Library Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Cafeteria Remove HP WAP/Replace w/ Aruba WAP.

IDF 2.0- IDF 119B Install (1) Cat 6 Data Drop. Install (1) Cat 6 48 port patch panel.

Work Rm. 107 Install (1) Cat 6 Data Drop/ Move WAP to center of room/ Replace with Aruba WAP.

Office 113 Remove HP WAP/Replace w/ Aruba WAP.

Conference 118 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 123 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 131 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 132 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 134 Remove HP WAP/Replace w/ Aruba WAP.

IDF 3.0- RM. 124: Install (1) Cat 6 48 port patch panel. Remove HP WAP/Replace w/ Aruba WAP.

IDF 4.0- PREP/SUPPLY 205: Install (1) Cat 6 48 port patch panel.

Rm. 200 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 201 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 202 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 203 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 204 Remove HP WAP/Replace w/ Aruba WAP.

IDF 5.0- COMPUTER LAB 213: Install (1) Cat 6 48 port patch panel.

Rm. 213 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 214 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 215 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 216 Remove HP WAP/Replace w/ Aruba WAP.

IDF 7.0- ELECTRICAL RM.: Install (4) Cat 6 Data Drops. Install (1) Cat 6 48 port patch panel.

Rm. 501 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 502 A/B Remove HP WAP/Replace w/ Aruba WAP.

Rm. 503 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 504 A Remove HP WAP/Replace w/ Aruba WAP.

Rm. 505 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 506 A Remove HP WAP/Replace w/ Aruba WAP.

Rm. 507 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 509 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 511 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 513 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 515 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 517 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. 519 Remove HP WAP/Replace w/ Aruba WAP.

IDF 8.0- GYM STORAGE: Install (1) Cat 6 48 port patch panel.

Gym Remove HP WAP/Replace w/ Aruba WAP.

Gym Vestibule Remove HP WAP/Replace w/ Aruba WAP.

IDF 9.0- RM. 239: Install (1) Cat 6 48 port patch panel.

Multi-Purpose Remove HP WAP/Replace w/ Aruba WAP.

Rm. 244 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 401 Remove HP WAP/Replace w/ Aruba WAP.

Rm. 402 Remove HP WAP/Replace w/ Aruba WAP.

Hallway Remove HP WAP/Replace w/ Aruba WAP.

IDF 10.0- R-309: Install (4) Cat 6 Data Drops. Install (1) Cat 6 48 port patch panel.

Rm. R-301 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. R-302 Remove HP WAP/Replace w/ Aruba WAP.

Rm. R-303 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. R-304 Remove HP WAP/Replace w/ Aruba WAP.

Rm. R-305 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. R-306 Remove HP WAP/Replace w/ Aruba WAP.

Rm. R-307 Install (1) Cat 6 Data Drop/ Move WAP to center of room/Replace with Aruba WAP.

Rm. R-308 Remove HP WAP/Replace w/ Aruba WAP.

Rm. R-309 Remove HP WAP/Replace w/ Aruba WAP.

Portables

Sub IDF SC-217- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-732- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF D-31- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF D-239- Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF SC-84- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-755- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-746- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-435- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-221- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-185- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-70- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF D-19- Install (1) Cat 6 Data Drop/Replace HP WAP (1 ea.)/ Install new Aruba WAP's w/mounting brackets in center of rooms.

Sub IDF E-25- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF E-23- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF E-24- Remove HP WAP/Replace w/ Aruba WAP.

Sub IDF SC-718- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF FK-5- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-250- Install (1) Cat 6 Data drop/ Move WAP to center of room/ Replace with Aruba WAP.

Sub IDF SC-721- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-381- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-186- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-467- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

Sub IDF SC-584- Install (1) Cat 6 Data drop/ Move WAP to center of room/Replace with Aruba WAP.

School Scope of Work

Upgrade Wireless Network (Commscope, Uniprise Cat 6 Plenum Yellow) per APS District Standards as follows: Install (1) new Cat 6 drop per WAP, in the center of the room, at 10' a.f.f. per APS District Standards. All WAP's to be installed according to NEC code, and APS District Standards. Contractor shall provide all necessary cabling pathways, including tray, j hooks, conduit, and wiremold applications, which may include complying with fire blocking requirements per NEC code. (Refer to APS IT cabling standards). Contractor shall provide new patch panels, patch cords, and re-testing certifications for terminations of new cables, and any existing cables removed from old to new patch panels. Remove and relocate WAP's per SoW. If a WAP is mounted on the wall, or any place other than in the center of the room, move it to the center of the room, and install (1) new Cat 6 drop to new location. All WAP patch cords must be labeled with TO port designation. Example: 2.0-1-12. Coordinate with APS IT on label installation requirements. Clean all areas after work has been performed.

Note: 1- Cat 6 7' Patch Cord per WAP, 1- Cat 6 7' Patch Cord at Switch. WAP's installed in the middle of room: Provide/install T grid hanger (supported to structure) and Aruba WAP mount kit for lay-in ceiling applications, and down rod and swivel application for exposed/hard lid ceilings over 10' high. Refer to Wireless installation requirements. **Electronics and configuring to be provided by APS IT networking team, vendor will need to coordinate with APS IT networking team for distribution of electronics per SoW.**

Update As-builts. All work performed must have permit. Provide cabling test results and manufacturers warranties.