

Project Owner:	Kentwood Public Schools
Project Name:	Bus Wireless and Large Venue AV
Issue Date:	February 6, 2024

ADDENDUM NO. 1

This Addendum No. 1 of the Technology Request for Bid for the above referenced project hereby amends, supplements and/or augments all prior issued document(s) as described herein, and becomes an inseparable part of the Contract Documents, superseding all previous, contrary and/or conflicting information.

AD1 - 1	27 41 16 - 68 - Configuration G is hereby revised, reissued and attached hereto. G. Configuration G 1. Contractor shall supply one (1) of the specified configurations in each of the following locations. a. East Kentwood High School – East Cafeteria 2. One (1) Projector a. Acceptable Manufacturer(s) 1. Epson a. EB-PU1008W b. 8,500 Lumens c. Projector shall be provided with appropriate lens for an approximate 25' throw to fill a 11.5' wide front projection system with a 16:9 ratio projected image. d. Projector shall be securely installed and affixed to mounting system and downpipe that is structurally attached to finished ceiling. Contractor shall supply appropriate mount and downpipe to securely and safely extend projector to optimal location for projection onto screen.
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<i>Bid ID: 3032</i>	Communications by Design, Inc.
<i>Addendum #1 Issued: February 22, 2024</i>	<i>Proprietary Information – All Rights Reserved</i>

e. Projector shall be connected to supplied Q-SYS control system to receive transmission of signal from supplied input locations.

3. One (1) Powered Rollup Projection Screen

a. Acceptable Manufacturer(s)

1. DA-LITE

a. Tensioned Cosmopolitan Electrol

2. DRAPER

b. Powered Rollup Projection Screen shall meet or exceed the following minimum requirements:

c. 78" x 139" – Wide (16:9) Format

d. White powder coated finish

e. Surface mount

f. Matte white screen surface

g. 12" black drop

h. Low voltage control RS-232 capable

4. Five (5) LED Monitor(s) shall be provided and installed.

1. East Cafeteria 1 - (65")

2. East Cafeteria 2 - (65")

3. East Cafeteria 3 - (65")

4. East Cafeteria 4 - (65")

5. East Cafeteria 5 - (75")

b. Acceptable Manufacturer(s)

1. LG

2. SAMSUNG

	a. QB75R b. QB65R c. LED Monitor shall meet or exceed the following minimum requirements: 1. 75" or 65" diagonal 2. Brightness 350 cd/m 3. Rated for 16/7 run-time 4. 8ms refresh rate 5. 3840 x 2160 resolution 6. 16:9 aspect ratio 7. Two (2) HDMI input ports 8. RS232C In/out d. Contractor shall supply and install appropriate mounts for supplied LED monitors. Mounts shall be Peerless (SF660P, ST660P or SA771PU) or Chief equivalent. 1. East Kentwood High School a. East Cafeteria – 1 – Use Existing Mount b. East Cafeteria – 2 – Use Existing Mount c. East Cafeteria – 3 – Pole Mount Articulating d. East Cafeteria – 4 – Tilt Mount e. East Cafeteria – 5 – Flat Mount e. All monitors shall be controlled through supplied control system. If expansion of controller IO is necessary Contractor shall provide necessary IO expansion units. f. Contractor shall supply appropriate Q-SYS AV over IP equipment for discrete output for each monitor and projector concurrently for a fully functional system.
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	g. Supplied Q-SYS AV over IP equipment shall scale images to optimal projector resolution. 5. One (1) Multimedia Processor/DSP a. Acceptable Manufacturer(s) 1. Q-SYS b. Contractor shall supply all parts, cables and accessories to securely mount unit in building MDF location. c. Contractor shall provide all control, communication, audio and video patch cables to connect input and output ports to all Contractor provided materials. d. Contractor shall program Multimedia processor to integrate with Contractor provided monitors and projector. Contractor shall supply all necessary cabling and programming to fully enable integration with control system. e. Contractor shall provide all system programming and operation software for a fully functional and operational system. All programming and/or configuration activity shall be completely coordinated and approved by Owner and/or Designer prior to initiation of final installation activity. f. System shall be populated with necessary accessories for 8 line-level input audio channels. g. Contractor shall supply all parts, cables and accessories to securely mount unit in provided cabinet. h. Contractor shall supply all necessary labor to configure Mixer/DSP. i. Contractor shall integrate Multimedia Processor/DSP with provided touchscreen. j. Contractor shall provide all system programming and operation software for a fully functional and operational system. All programming and/or configuration activity shall be completely coordinated and approved by Owner and/or Designer prior to initiation of final installation activity.
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	k. Contractor shall supply all cables and accessories for a fully functional system. l. Contractor shall provide and install fully compliant shielded cabling and any other low voltage communication infrastructure needed to fully connect to the projection system from one (1) input plate(s), one (1) wireless presentation system(s) and one (1) digital signage player. Cable shall meet or exceed Q-SYS requirements for AV over IP systems. 6. One (1) Multimedia Input Location shall be provided. a. Acceptable Manufacturer(s) 1. Q-SYS b. Wall input to be installed in provided double gang box (transmitter should be single gang), Contractor shall supply stainless steel plate for fully finished installation. c. Contractor shall supply correct in-plate transmit and receive equipment to extend input location to supplied Q-SYS AV over IP encoder. d. Contractor will supply all necessary Q-SYS AV over IP decoder equipment to connect supplied projector and monitors. e. Valid video input into the system shall turn on system automatically. f. System shall power down after ten (10) minutes of no video signal. g. Q-SYS AV over IP units shall properly scale input image to projector to optimal resolution. 7. One (1) Touch Screen(s) shall be provided a. Acceptable Manufacturer(s) 1. Q-SYS b. Touch Screen(s) shall be provided to control system operations.
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	1. Touchscreen shall be 7" 2. Black 3. Connect touch screens to supplied control system as per manufacturer installation instructions. 4. Provide all necessary cabling, mounts and accessories to securely mount touch screen in provided double gang box. 5. Control touch screen shall be provided in locations specified herein that shall provide the following functions but not limited to. a. System Power On b. System Power Off c. Select Source, input 1, wireless presentation system, or digital signage d. Control Provided LED Panels and Projector. e. Audio Level Increase f. Audio Level Decrease g. Image Freeze h. Audio Mute c. Contractor shall provide all control, communication, audio and video patch cables, transmitters and receivers to connect input and output ports to all Contractor and Owner provided materials in the space. 8. One (1) CD/Bluetooth Player shall be provided and installed a. Acceptable Manufacturer(s) 1. TASCAM a. CD400U
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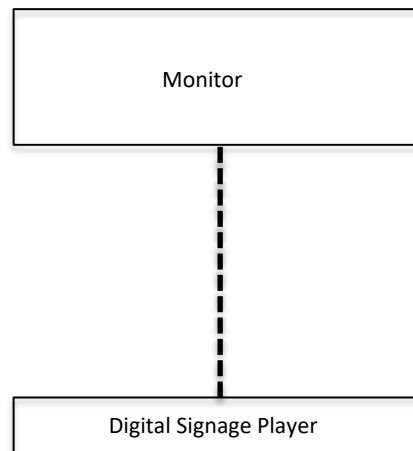
	2. Or Equal. b. Contractor shall supply all parts, cables and accessories to securely mount unit in provided cabinet. c. Contractor shall provide all audio cables and accessories to integrate CD/Bluetooth player with provided DSP/Mixer system. 9. One (1) Amplification System shall be provided and installed a. Acceptable Manufacturer(s) 1. HARMAN/JBL PRO a. CSA2300Z 2. Q-SYS 3. Or Equal b. Two (2) input channels c. Two (2) output channels d. 300W maximum output per channel e. S/N (20 Hz – 20kHz @ 8 Ohms) > 97 dB f. Contractor shall use existing speakers. Contractors shall rework existing speaker cabling as necessary to integrate into new amplifier. 10. Two (2) Voice Amplification System(s) shall be provided and installed a. Acceptable Manufacturer(s) 1. SHURE – QLXD4 2. Or Equal. b. Handheld and Lavalier microphone combo c. Contractor shall supply and install any necessary external antennas and cabling to enable clear and reliable audio signal coverage for entire cafeteria.
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	d. Contractor shall supply all mounting hardware to securely mount equipment into existing rack. 11. One (1) Digital Signage Device(s) shall be provided. a. Acceptable Manufacturer(s) 1. Brightsign a. HD225 b. Digital Signage Device(s) shall meet or exceed the following requirements: 1. Integrated Ethernet connection 2. HDMI output capable of 4K resolution c. Contractor shall securely mount Digital Signage Device at LED monitor location using manufacturer recommended installation practices. d. Provide one (1) Pro license(s) for Carousel cloud digital signage platform (one for each unit). Cloud licensing term shall be for term of warranty. e. Contractor shall work collaboratively with Owner to configure Brightsign digital signage device for use with Owners Carousel Digital Signage platform. f. Contractor shall supply and install all necessary patch cables to connect equipment to network and in data closet location. Contractor shall cross connect equipment in data closet and report to Owner data closet, switch and port location for programming.
AD1 - 2	Appendix B: Line Diagrams is hereby revised and attached hereto.
AD1 - 3	Hamilton Elementary Drawing is hereby revised and attached hereto.

END OF ADDENDUM NO. 1

Appendix B – AV Connection Line Diagrams

Configuration A – Digital Signage

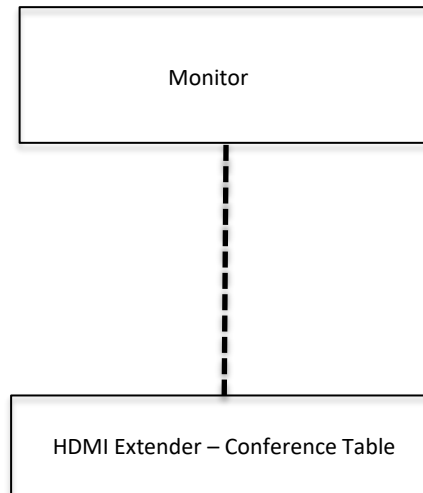


Legend

Control	
Audio	
HDMI	
Network PoE	

Appendix B – AV Connection Line Diagrams

Configuration B – Conference Room Type A

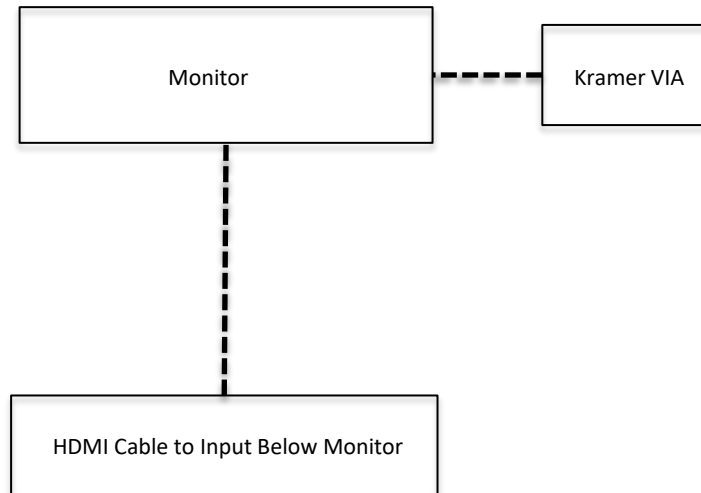


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Control	
Audio	
HDMI	
Network PoE	

Appendix B – AV Connection Line Diagrams

Configuration C – Conference Room Type B

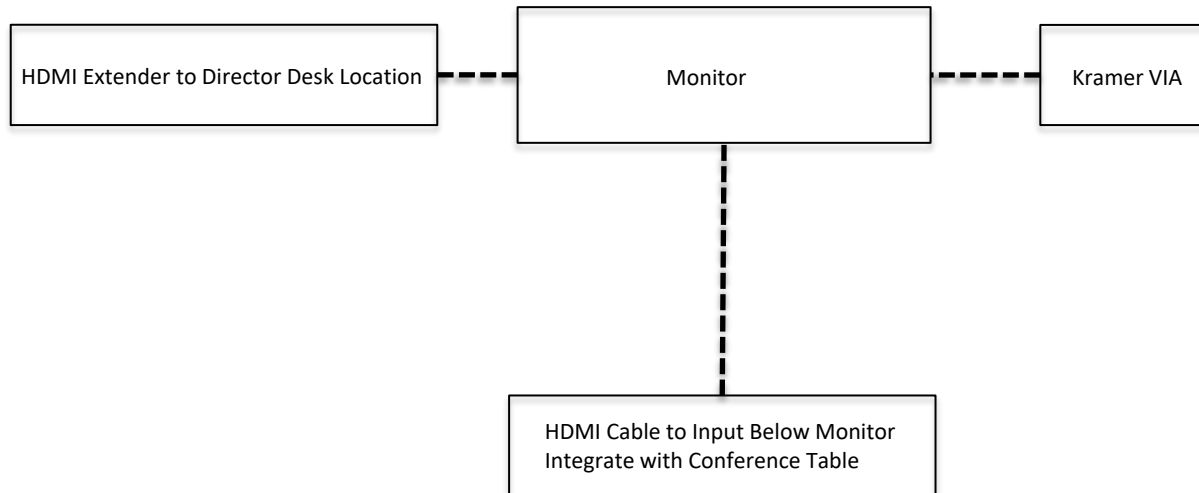


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Control	
Audio	
HDMI	
Network PoE	

Appendix B – AV Connection Line Diagrams

Configuration D – Directors Office

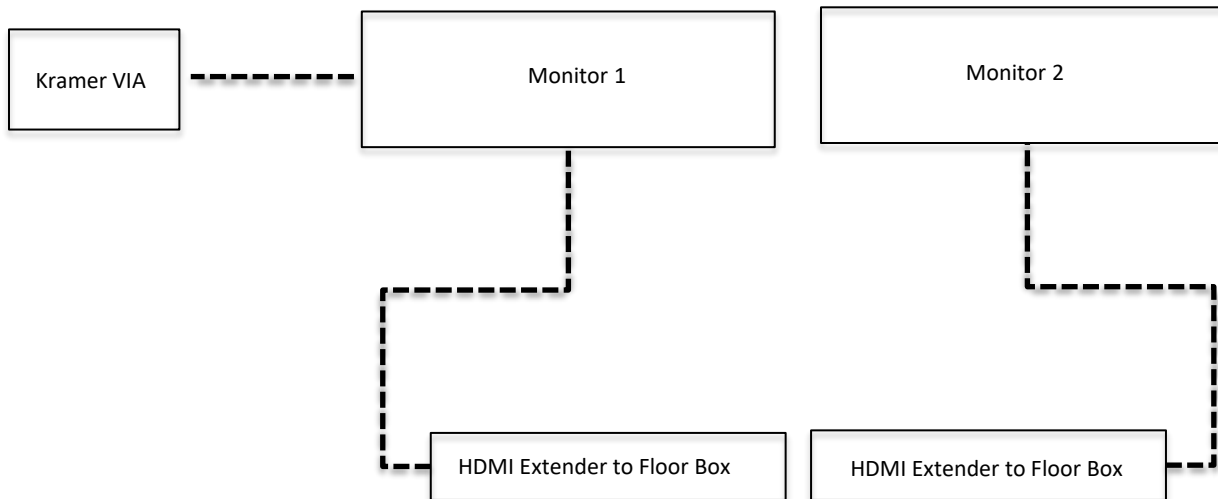


Legend

Control	
Audio	
HDMI	
Network PoE	

Appendix B – AV Connection Line Diagrams

Configuration E – Technology Open Office

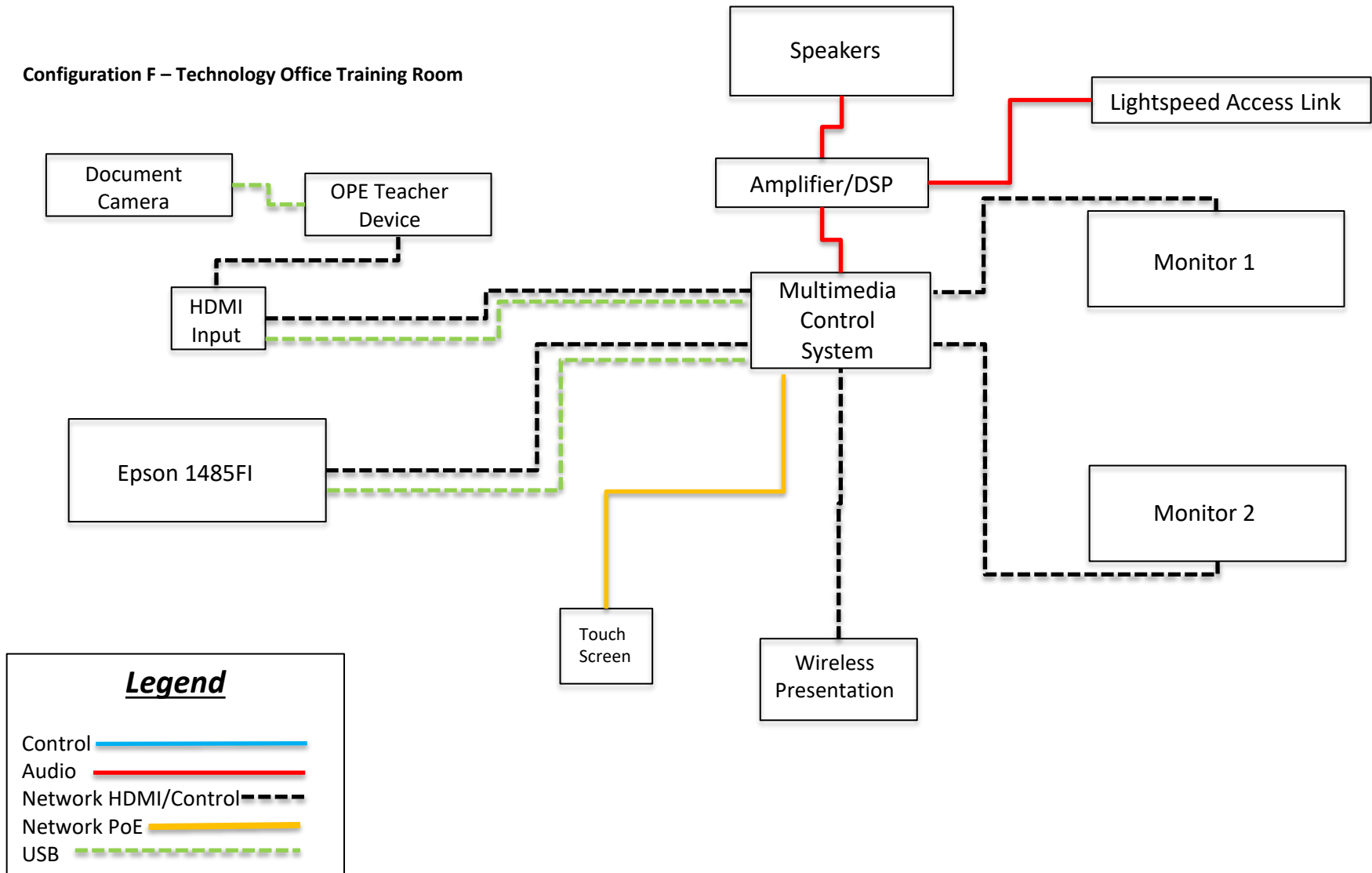


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Control	
Audio	
HDMI	
Network PoE	

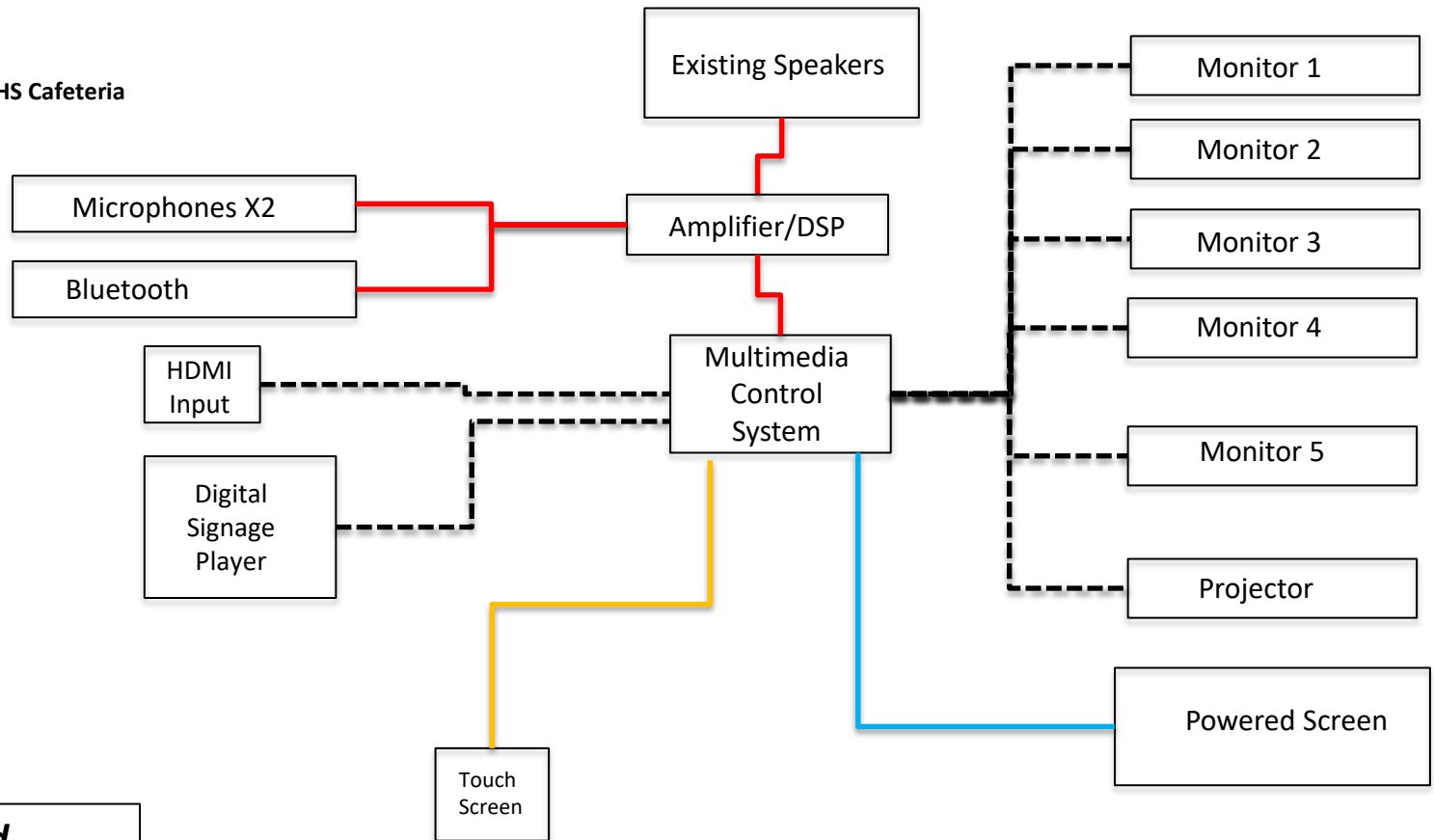
Appendix B – AV Connection Line Diagrams

Configuration F – Technology Office Training Room



Appendix B – AV Connection Line Diagrams

Configuration G – EKHS Cafeteria

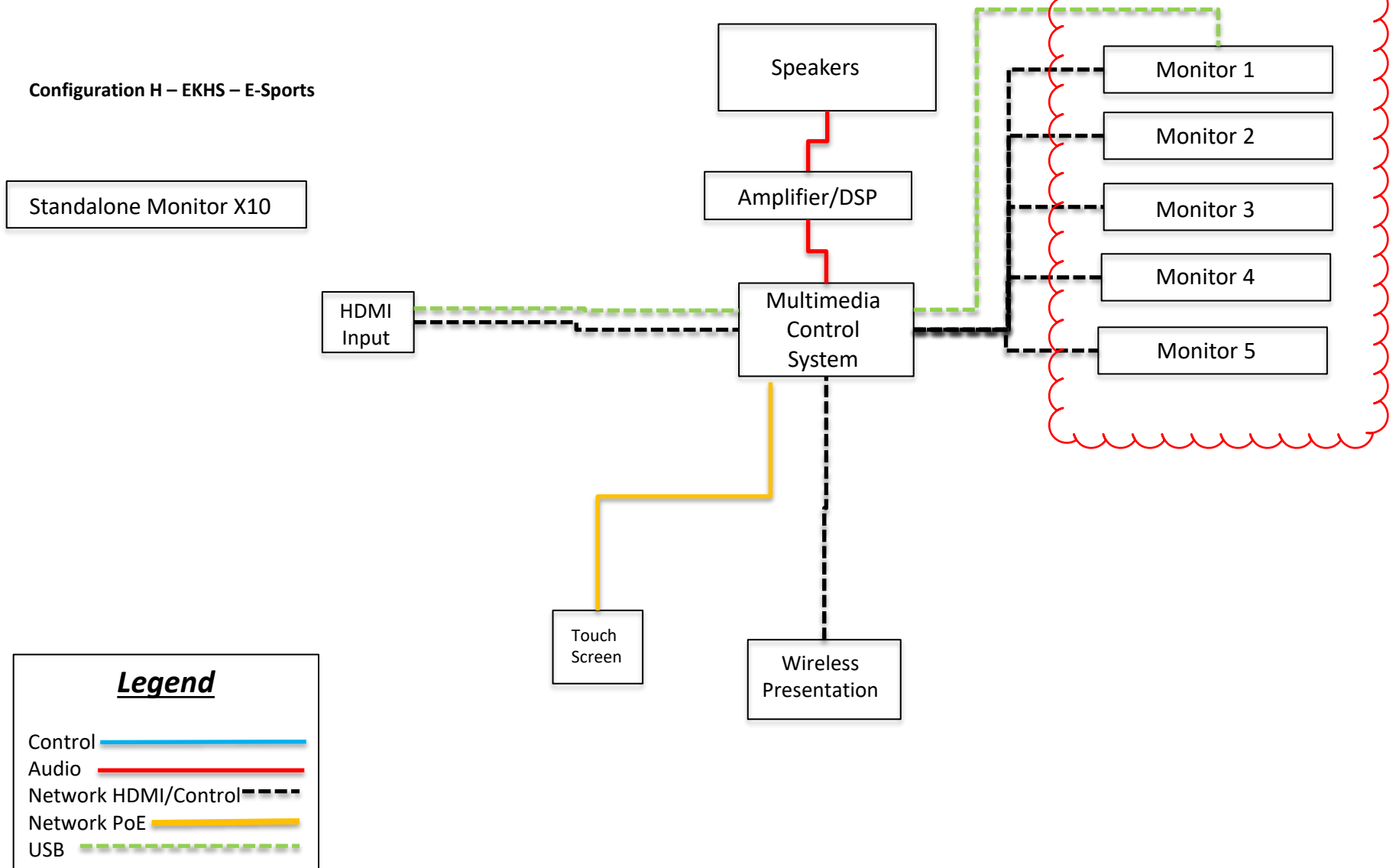


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- Control —————
- Audio —————
- Network HDMI/Control - - - - -
- Network PoE —————
- USB - - - - -

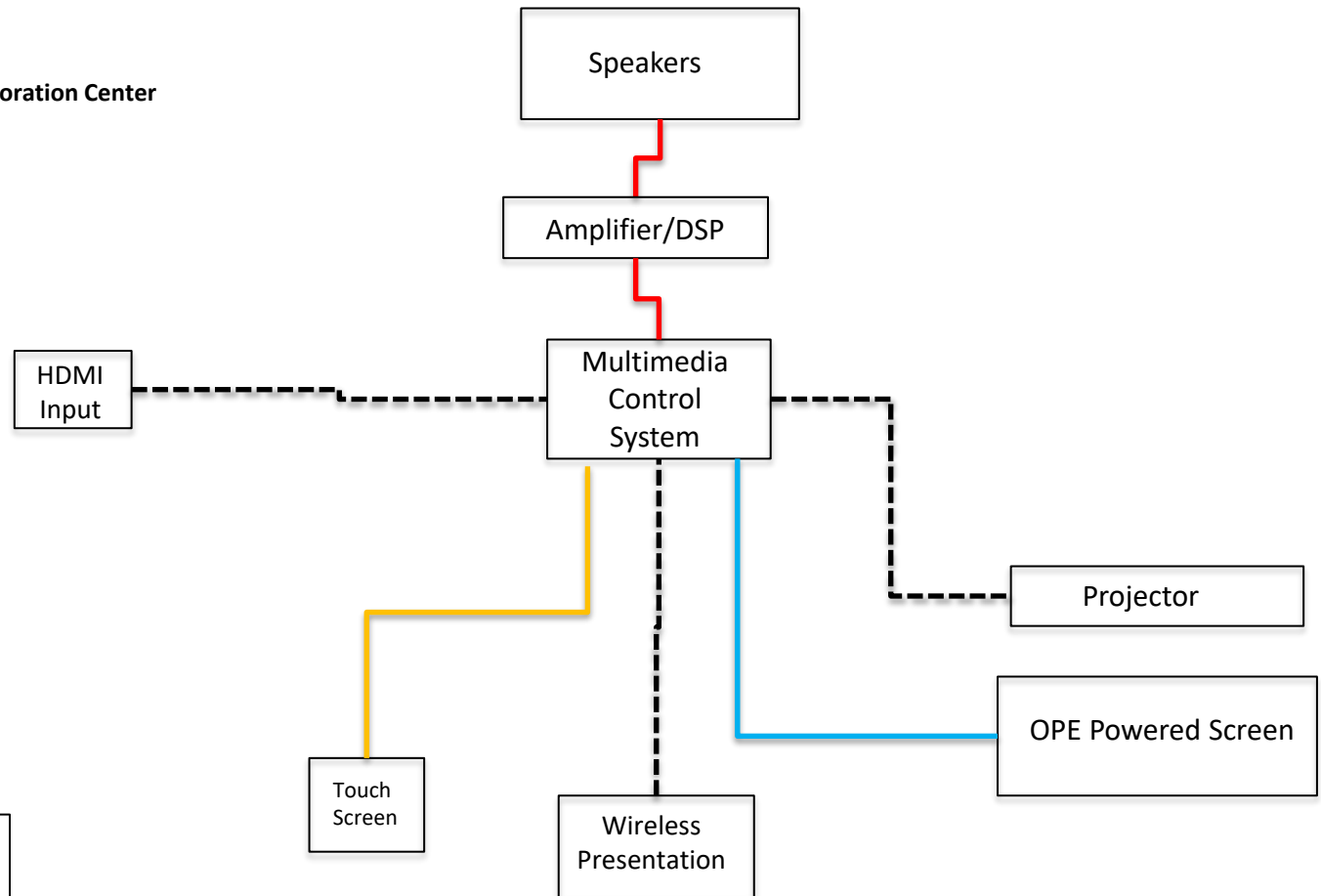
Appendix B – AV Connection Line Diagrams

Configuration H – EKHS – E-Sports

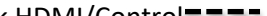


Appendix B – AV Connection Line Diagrams

Configuration I – Hamilton Collaboration Center

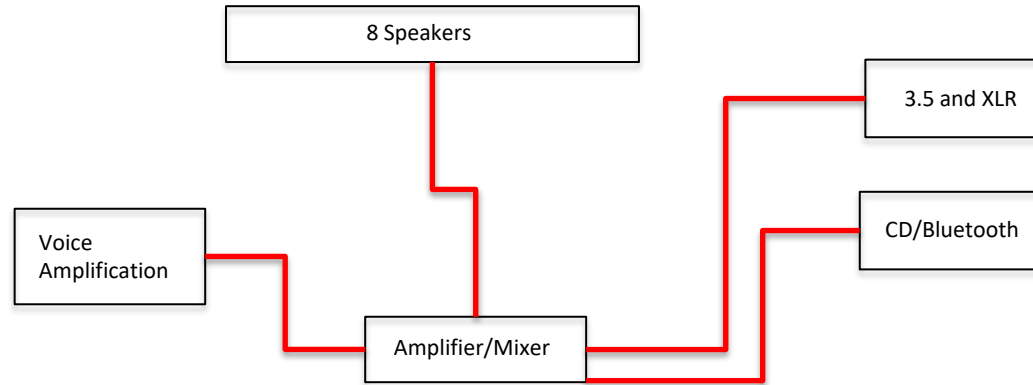


Legend

- Control 
- Audio 
- Network HDMI/Control 
- Network PoE 
- USB 

Appendix B – AV Connection Line Diagrams

Configuration J – Hamilton Gymnasium

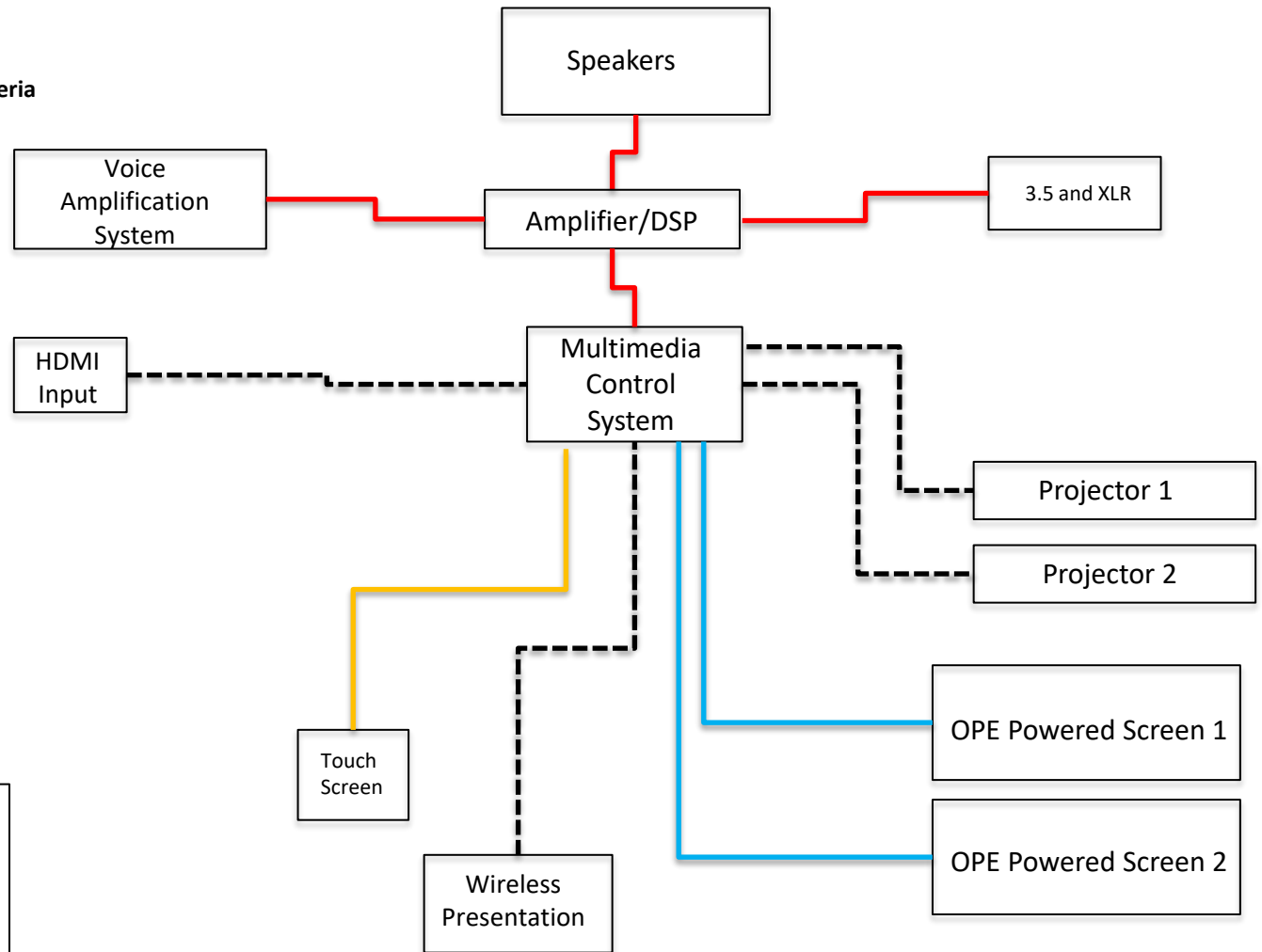


Legend

Control	
Audio	
Network HDMI	
Network PoE	

Appendix B – AV Connection Line Diagrams

Configuration K – Hamilton Cafeteria

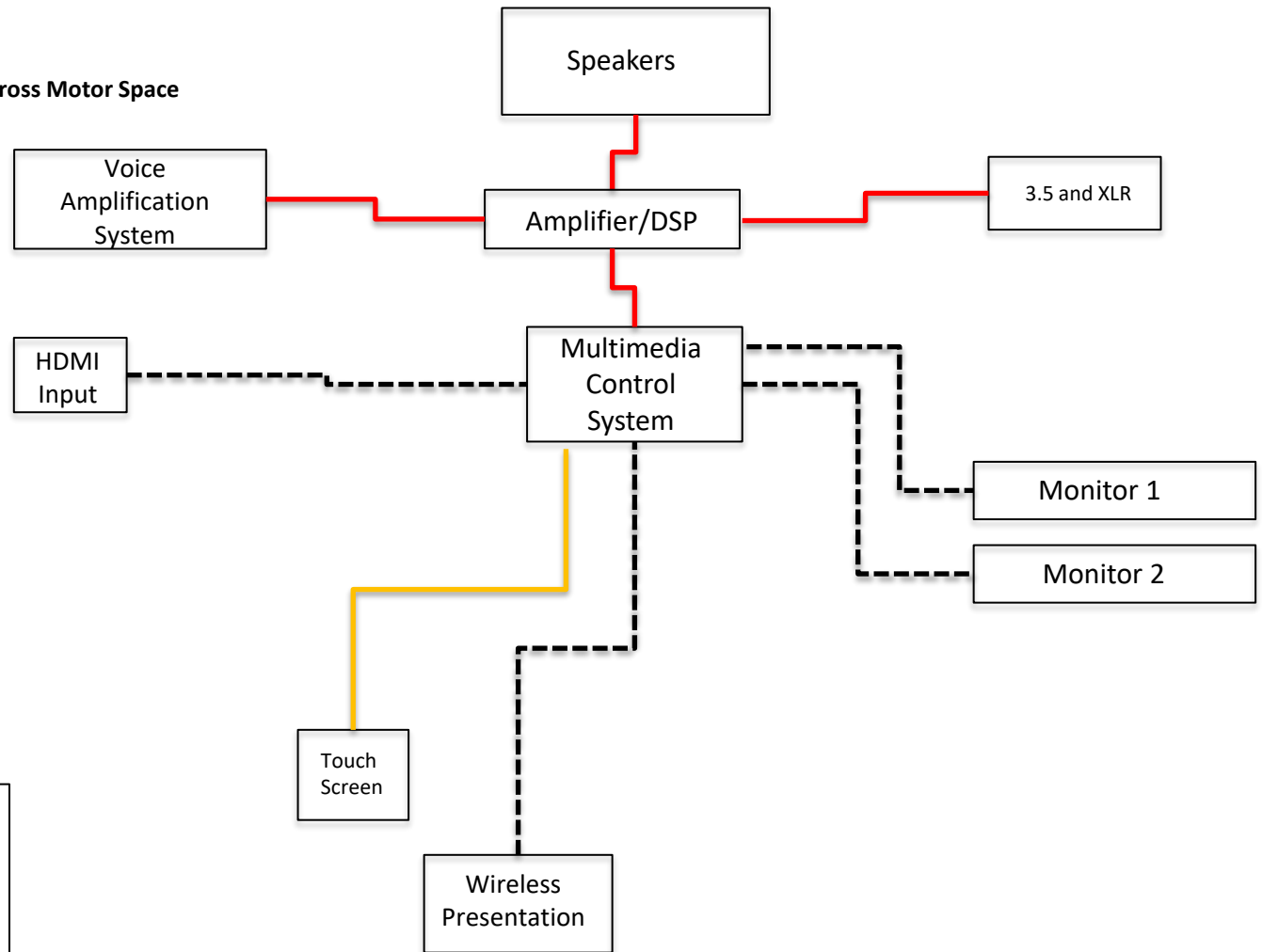


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Control	
Audio	
Network HDMI/Control	
Network PoE	
USB	

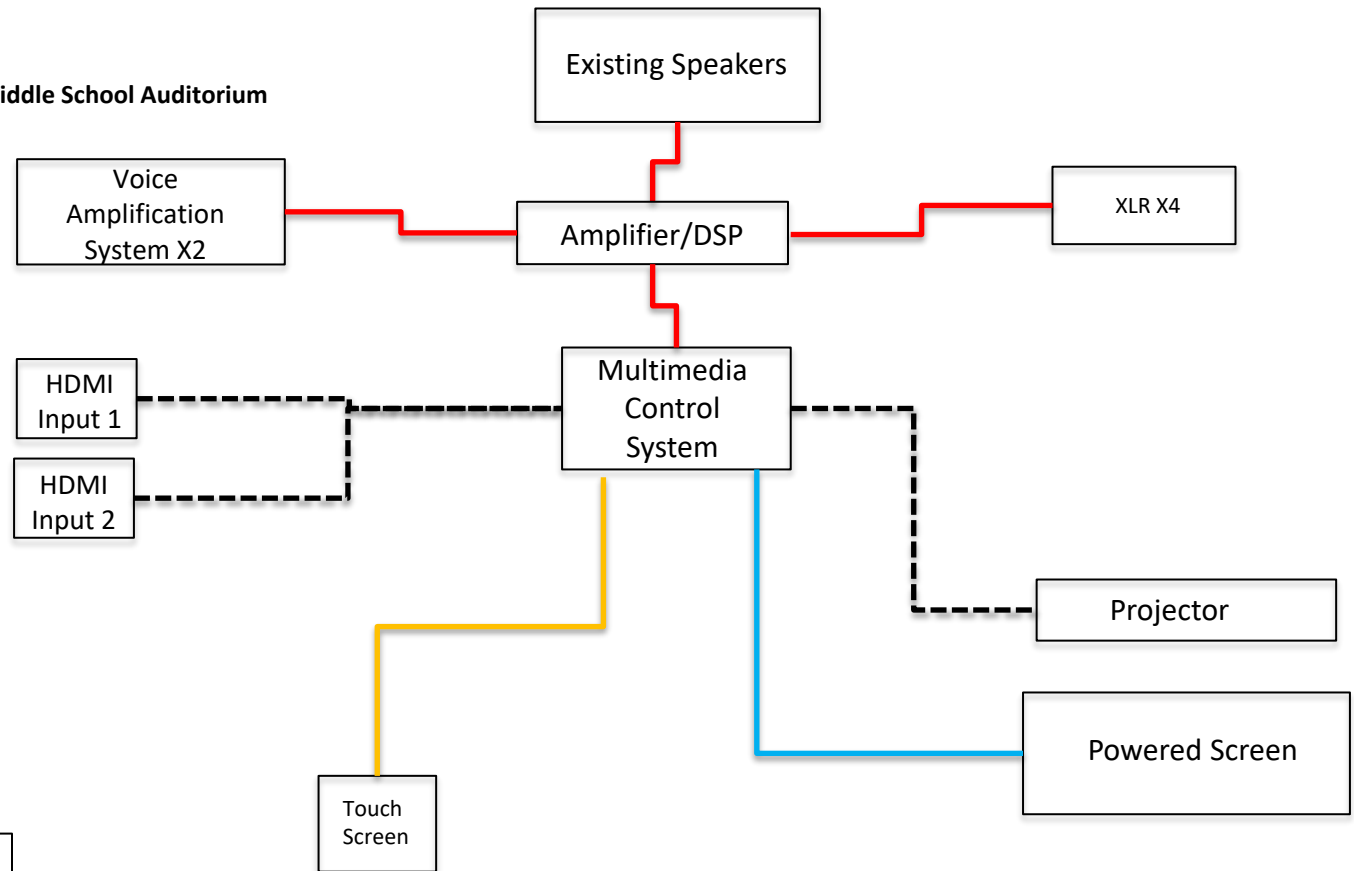
Appendix B – AV Connection Line Diagrams

Configuration L – Hamilton ECC Gross Motor Space



Appendix B – AV Connection Line Diagrams

Configuration M – Valleywood Middle School Auditorium





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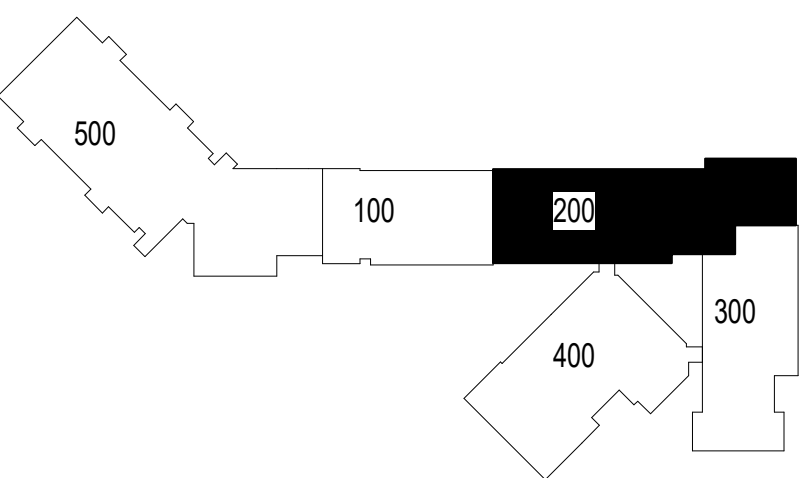
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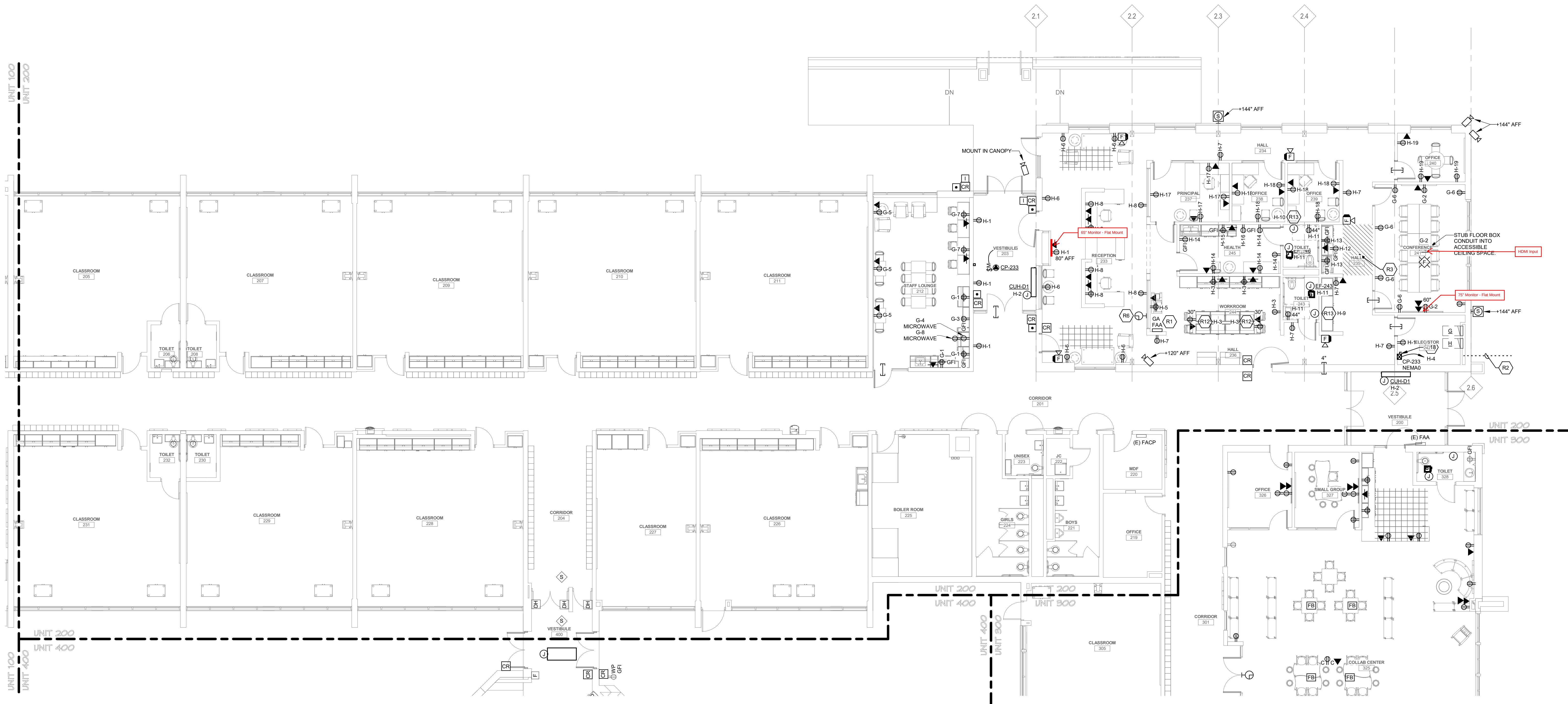
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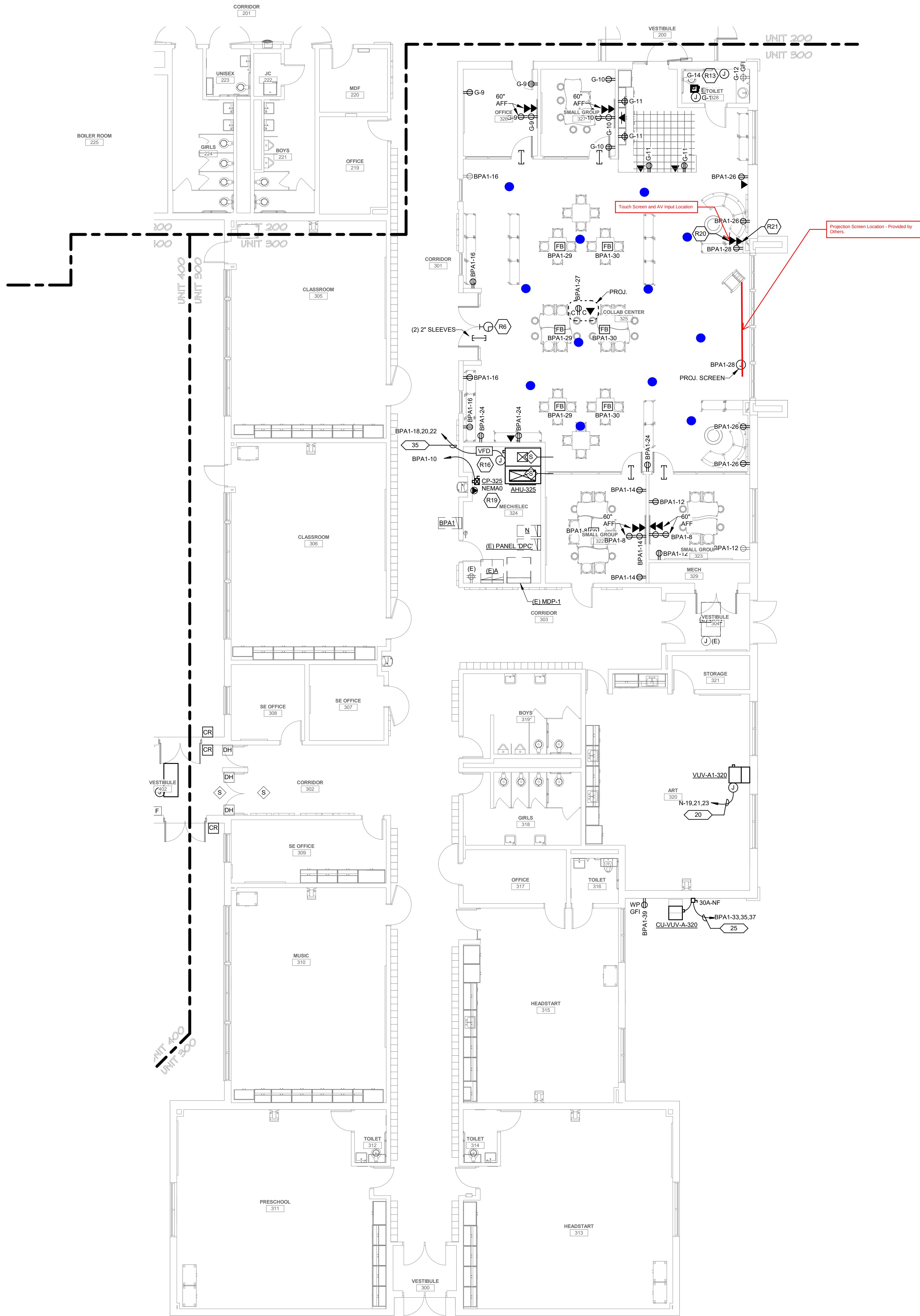
EP1.2

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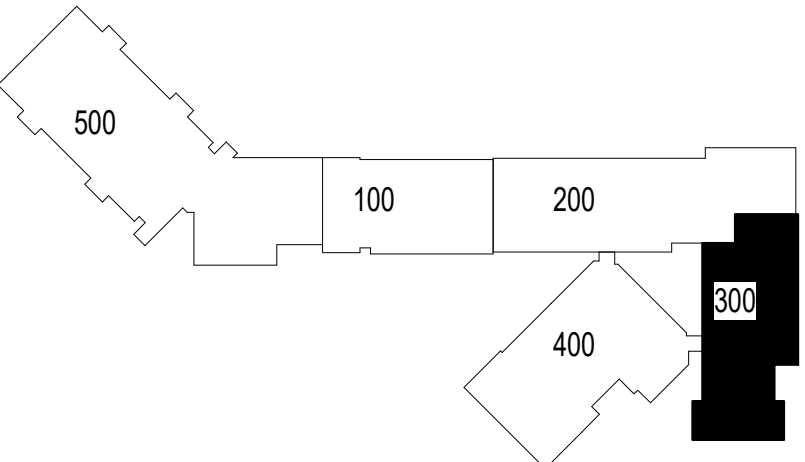
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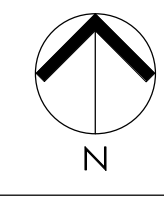
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ADDITION

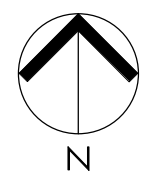
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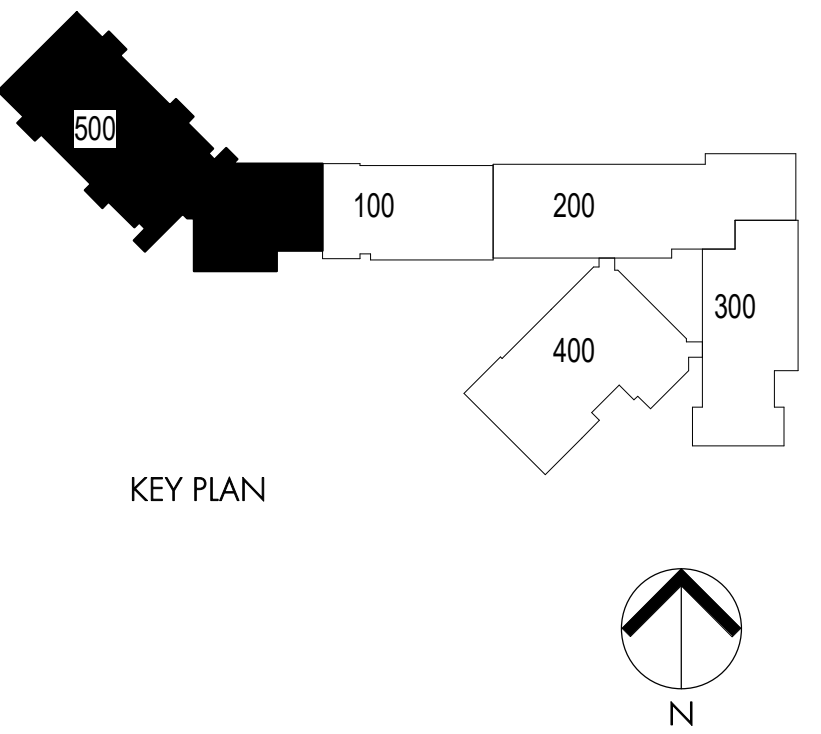


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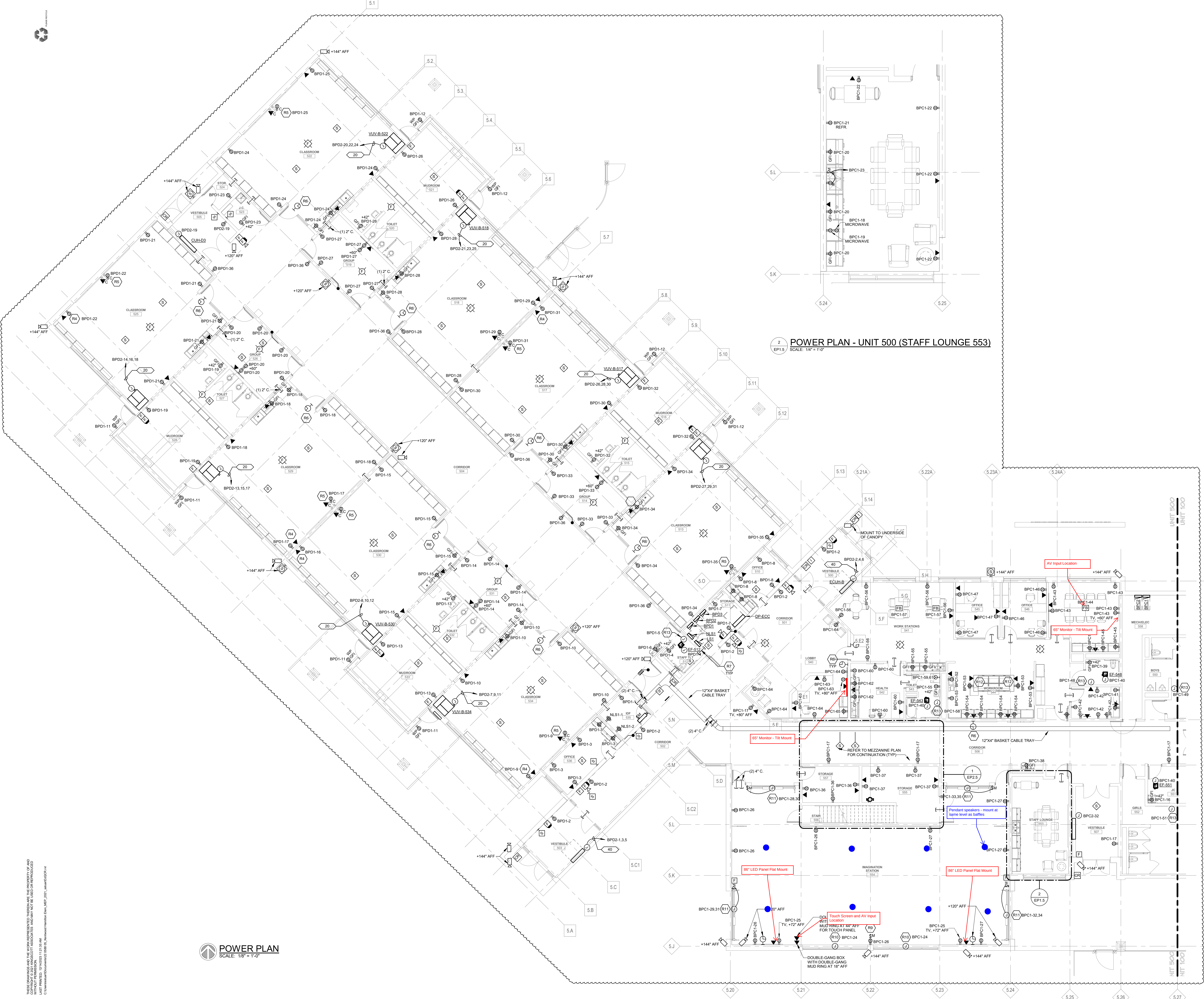


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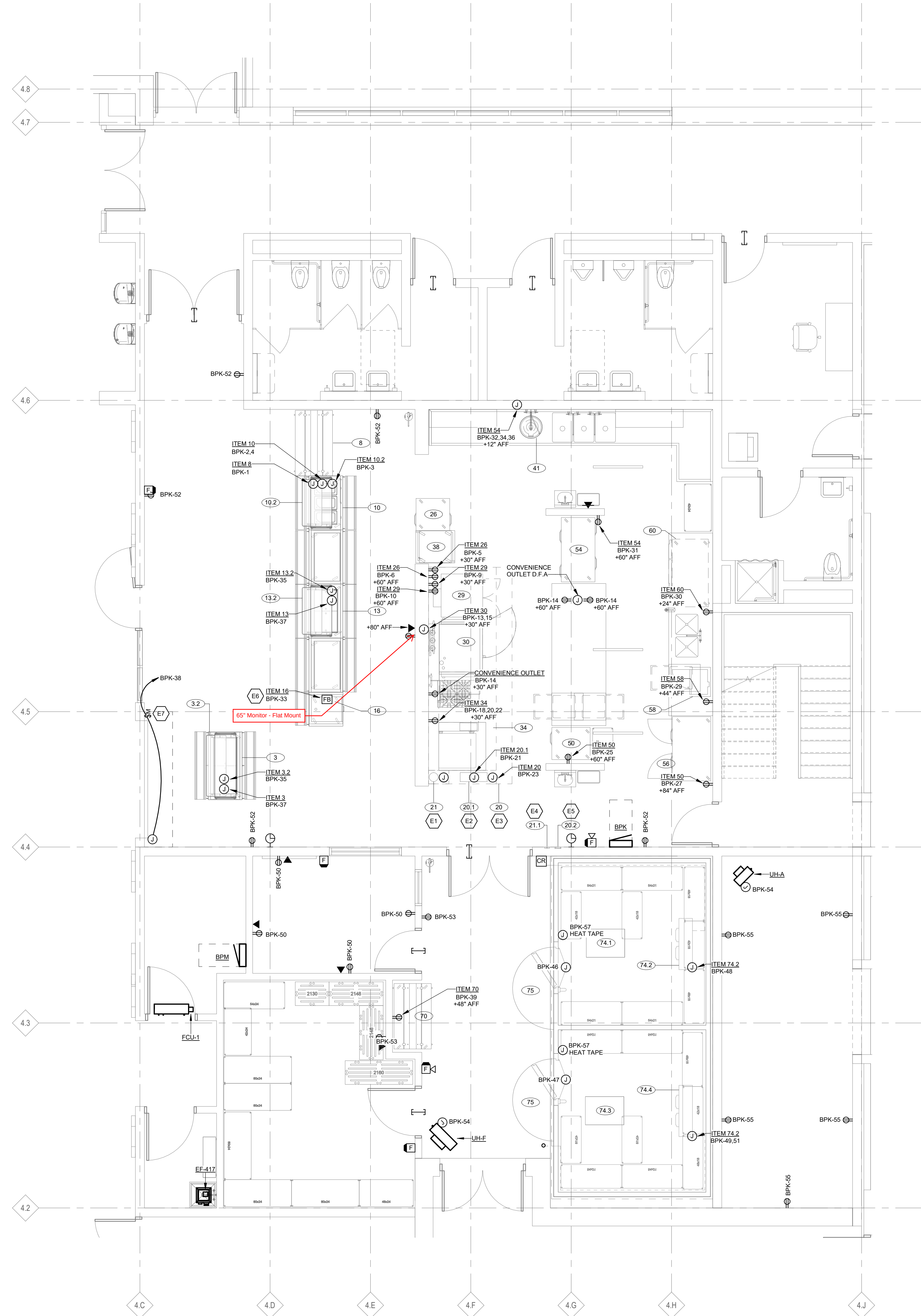
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1 ELECTRICAL KITCHEN PLAN
EP14 / SCALE: 1/8" = 1'-0"



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