

CONTRACTOR(S) GUIDELINES:

- 28. ALL SPLICES SHALL UTILIZE 3M 710 MODULES. ALL CABLES MUST BE EQUIPPED TO PROVIDE A CONTINUOUS SOUND OF GAGE SHELDERS THROUGH ALL SPLICES.
29. PULL ROPES SHALL BE PLACED IN ALL VACANT CONDUITS.
30. ALL WORK MUST BE COMPLETED IN A NEAT AND PROFESSIONAL MANNER...

TECHNOLOGY PENETRATION NOTES:

- 1. UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL MAKE NO PENETRATION OF FLOORS, WALLS OR CEILING WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNERS REPRESENTATIVE.
2. WALL PENETRATIONS:
a. THE SCS AND/OR LV CONTRACTOR SHALL PROVIDE FIRE STOPPING FOR ALL COMMUNICATIONS TRAYS AND IN SOME CASES NOTED THAT WILL BE DESCRIBED BELOW THIS SECTION...

TECHNOLOGY CABLING NOTES:

- 1. THE USE OF LUBRICANTS SUCH AS CLEAR GLIDE, TO FACILITATE THE INSTALLATION OF CABLES IN CONDUITS IS ENCOURAGED FOR FRICTION REDUCTION AND TO MAINTAIN THE REQUIRED PULL TENSION.
2. ANY CABLE DAMAGED OR EXCEEDING RECOMMENDED INSTALLATION PARAMETERS SHALL BE REPLACED OR RE-INSTALLED BY THE CONTRACTOR BEFORE FINAL ACCEPTANCE AT NO COST TO THE OWNER.
3. EACH RUN OF CABLE BETWEEN THE TERMINATION BLOCK OR PATCH PANEL AND THE STATION CONNECTOR SHALL BE CONTINUOUS WITHOUT ANY JOINTS OR SPLICES.

TECHNOLOGY PATHWAY NOTES:

- 1. PATHWAYS CAN BE DIVIDED UP INTO TWO SEPARATE CATEGORIES, OUTSIDE PLANT (OSP) AND INSIDE PLANT (ISP). IT IS THE SCS AND/OR LV SYSTEMS/ CONTRACTORS RESPONSIBILITY TO IDENTIFY ALL EXISTING PATHWAYS (CONDUIT, CABLE TRAY, ETC.) THAT WILL BE UTILIZED ON THE PROJECT.
2. ALL PULL-BOXES SHALL BE SIZED AND INSTALLED PER ANSITIA-669-D. PULL-BOXES FOR INUNDER SLAB CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED.
3. EACH RUN OF CABLE BETWEEN THE TERMINATION BLOCK OR PATCH PANEL AND THE STATION CONNECTOR SHALL BE CONTINUOUS WITHOUT ANY JOINTS OR SPLICES.

PROJECT CODES AND STANDARDS:

- APPLICABLE PROJECT BUILDING CODES, EFFECTIVE AS OF DATE: JANUARY 1, 2023
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)
2022 CALIFORNIA BUILDING CODE (CBC)
2022 CALIFORNIA ELECTRICAL CODE (CEC)
2022 CALIFORNIA ENERGY CODE
2022 CALIFORNIA FIRE ALARM AND SIGNALING CODE (NFPA 72)

TECHNOLOGY ABBREVIATIONS:

Table with 2 columns: Abbreviation and Full Name. Includes entries like ACP (ACCESS CONTROL PROCESSOR), APU (ACCESS POINT UNIT), AOR (ARCHITECT OF RECORD), etc.

CONTRACTOR(S) GUIDELINES:

- 1. ALL TECHNOLOGY WORK SHALL COMPLY WITH DESIGN GUIDELINES AS WELL AS APPLICABLE FEDERAL, STATE, AND LOCAL CODES. WHERE THE CONSTRUCTION REQUIREMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS THAN THE CODES, THE CONTRACTOR SHALL APPLY THE MORE RESTRICTIVE REQUIREMENTS.
2. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE, CODE OR SPECIFICATION WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE, JOB OR THE HIGHER STANDARD SHALL PREVAIL.

TECHNOLOGY GROUNDING SYSTEM NOTES:

- 1. THE CONTRACTOR SHALL PROVIDE A TELECOMMUNICATION GROUNDING BUSBAR (TGB) AND TELECOMMUNICATIONS CABLES ENTERING THE BUILDING PER MANUFACTURER SPECIFICATIONS AND CEC 770-33, 800-33 AND 800-49. ALL GROUNDS SHALL CONSIST OF 6 GAUGE COPPER WIRE AND SHALL BE SUPPLIED FROM AN APPROVED BUILDING GROUND AND BONDED TO THE MAIN ELECTRICAL GROUND. ALL CABLE SHEATHS AND SPIKE CASES SHALL BE GROUNDING TO A TELECOMMUNICATIONS GROUND BUS.
2. THE SCS CONTRACTOR SHALL UTILIZE A TELECOMMUNICATIONS BONDING BACKBONE (TBB) AS INDICATED IN THE DRAWINGS. GROUNDING MUST BE IN ACCORDANCE WITH THE CEC 2022, ANSITIA-607-B AND ALL LOCAL CODES AND PRACTICES.

TECHNOLOGY TERMINAL BACKBOARD NOTES:

- 1. WHERE INDICATED ON DRAWINGS, CONTRACTOR TO PROVIDE NEW PLYWOOD TERMINAL BACKBOARDS. USE DOUGLAS FIR PLYWOOD, INTERIOR OR GRADE FINISHED ONE SIDE AND PRIME COAT PAINTED ON ALL SURFACES WITH A FINISH COAT OF FIRE RETARDANT WHITE ENAMEL ON EACH PLYWOOD SHEET LEAVE ONE (1) FIRE MARSHAL STAMP UNPAINTED FOR INSPECTION, UNLESS OTHERWISE INDICATED. USE 8" HIGH X LENGTH AS SHOWN ON DRAWINGS X 24" THICK PLYWOOD. REFERENCE BACKBOARD ELEVATIONS FOR MORE INFORMATION.
2. EACH EQUIPMENT CABINET AND RACK REQUIRES ITS OWN DEDICATED RACK GROUNDING BUSBAR (RIGB) WITH A BONDING CONNECTION TO THE GROUNDING INFRASTRUCTURE. THE GROUNDING INFRASTRUCTURE CONSIST OF A TGB BY PROVIDING EVERY RACKCABINET WITH ITS OWN DEDICATED #6 AWG (MIN) GREEN CONDUCTORS BACK TO THE TOMBAY. ALL GROUND CONDUCTOR ATTACHMENTS SHALL UTILIZE 2-HOLE LONG BARREL COMPRESSION LUGS.

TECHNOLOGY GENERAL NOTES:

- 1. ALL STRUCTURED CABLING SYSTEM (SCS) & LOW VOLTAGE (LV) CABLING USED THROUGHOUT THIS PROJECT SHALL COMPLY WITH THE REQUIREMENTS AS OUTLINED IN THE STANDARDS, CODES AND LOCAL REGULATIONS FOR THE FOLLOWING:
2. ALL SCS AND LV CABLING SHALL BEAR UL LISTED TYPE CMP (PLENUM RATED) AND/OR CMG (GENERAL PURPOSE) AND/OR CMP (RISER RATED) AND FIRE OPTIC CABLING SHALL BEAR OFNP (PLENUM RATED) AND/OR RISER RATED AND/OR OFNG (GENERAL PURPOSE). THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATELY RATED CABLE FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED.

CONTRACTOR(S) GUIDELINES:

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2. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE, CODE OR SPECIFICATION WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE, JOB OR THE HIGHER STANDARD SHALL PREVAIL.

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Job #: 23-2034

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PROFESSIONAL STAMP
REGISTERED PROFESSIONAL ENGINEER
R. M. S. ZELDON
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ELECTRICAL
STATE OF CALIFORNIA
CONTRACTOR SUBMITTALS:
(SHP DRAWINGS / PRODUCT SUBMITTALS / QUALIFICATIONS)
1. ORDERING AND INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL THE FOLLOWING:
a. CONTRACTOR FURNISHED SHOP DRAWINGS (SEE BELOW FOR LISTED SHOP DRAWING REQUIREMENTS)
b. PRODUCT SUBMITTAL DOCUMENTS
c. APPLICABLE TRADE QUALIFICATION CERTIFICATIONS HAVE BEEN APPROVED BY THE SYSTEMS MANAGER, ARCHITECT AND/OR IF APPLICABLE, APPROVED BY THE DIVISION OF THE STATE ARCHITECT.

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
5735 47TH AVENUE, SACRAMENTO CA. 95824

PROJECT
FATHER KEITH KENNY MIDDLE SCHOOL
3525 MARTIN LUTHER KING JR. BLVD., SACRAMENTO CA. 95817

SITE-WIDE INTERCOM AND CLOCK MODERNIZATION

TECHNOLOGY CODES, NOTES, AND ABBREVIATIONS

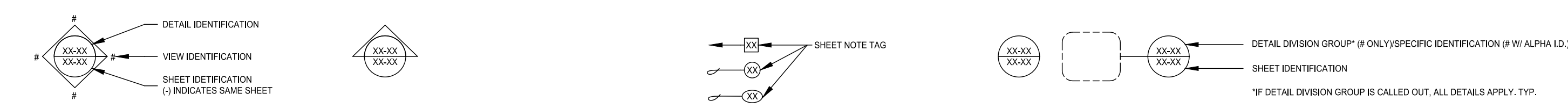
TECHNOLOGY SHEET INDEX
SHEET NO. SHEET NAME
T0.00 TECHNOLOGY CODES AND NOTES
T0.01 TECHNOLOGY SYMBOL LEGEND
T1.00 TECHNOLOGY SITE PLAN
T2.00 TECHNOLOGY ADMIN PARTIAL FLOOR PLAN
T2.01 TECHNOLOGY BUILDING-L1 & L2 PARTIAL FLOOR PLAN
T2.02 TECHNOLOGY BUILDING-D & C PARTIAL FLOOR PLAN
T2.03 TECHNOLOGY BUILDING-F FLOOR PLAN
T2.04 TECHNOLOGY BUILDING-MP FLOOR PLAN
T3.00 TECHNOLOGY ONE-LINES AND EQUIPMENT SCHEDULE
T4.00 TECHNOLOGY DETAILS
T5.00 TECHNOLOGY FIRE RATED ASSEMBLY DETAILS

LPCE PROJECT NO. 23-2034
DESIGNED BY: JZ/RL
CHECKED BY: LPCE
ISSUE DATE: 2023/08/08
WORKING DATE: 2023/08/08
SHEET NUMBER
T0.00

# SYMBOL LEGEND

ALL EQUIPMENT SHALL BE CONTRACTOR FURNISHED, CONTRACTOR INSTALLED UNLESS NOTED OTHERWISE

ROW ID	ANNOTATION SYMBOL	DESCRIPTION	BACK BOX	TRIM RING	CONDUIT	MOUNTING HEIGHT	CABLE	MANUFACTURER	MODEL	WEIGHT CAPACITY (LBS.)	SPECIAL INSTRUCTION
1		MDF EQUIPMENT RACK	N/A	N/A	N/A	N/A	N/A	EXISTING	EXISTING	N/A	N/A
2		IDF EQUIPMENT RACK	N/A	N/A	N/A	N/A	N/A	EXISTING	EXISTING	N/A	N/A
3		SIGNAL TERMINATION CABINET	N/A	N/A	N/A	N/A	N/A	EXISTING	EXISTING	N/A	N/A
4		GROUND BOX W/ CONCRETE LID	N/A	N/A	N/A	N/A	N/A	EXISTING	EXISTING	N/A	N/A
5		PULL BOX W/ COVER	N/A	N/A	N/A	N/A	N/A	EXISTING	EXISTING	N/A	N/A
6		UNDERGROUND CONDUIT	N/A	N/A	N/A	N/A	N/A	EXISTING	EXISTING	N/A	N/A
7		SURFACE CONDUIT	N/A	N/A	N/A	N/A	N/A	EXISTING	EXISTING	N/A	N/A
8		HIGH CAPACITY CABLE TRAY / SPLINE	N/A	N/A	N/A	N/A	N/A	EXISTING	EXISTING	N/A	N/A
9		SURFACE RACEWAY, SINGLE CHANNEL	N/A	N/A	N/A	N/A	N/A	WIREMOLD	WM2300	N/A	N/A
10		NON-CONTINUOUS OPEN ENDED PATHWAY, J-HOOK	N/A	N/A	N/A	N/A	N/A	EXISTING / B-LINE	BCH-32	N/A	INSTALL 12" ABOVE CEILING
11		NETWORK POE SWITCH	N/A	N/A	N/A	AT RACK	CAT6	SEE ONE-LINES FOR INFORMATION	SEE ONE-LINES FOR INFORMATION	N/A	N/A
12		PATCH PANEL WITH WIRE MANAGER	N/A	N/A	N/A	AT RACK	CAT6	SEE ONE-LINES FOR INFORMATION	SEE ONE-LINES FOR INFORMATION	N/A	N/A
13		INTERCOM IP SITE CONTROLLER W/ SOFTWARE LICENSE	N/A	N/A	N/A	AT RACK	CAT6	SEE ONE-LINES FOR INFORMATION	SEE ONE-LINES FOR INFORMATION	N/A	INSTALL 12" ABOVE CEILING
14		ZONE AUDIO AMPLIFIER, 35-WATT 25/70V	N/A	N/A	N/A	AT RACK	CAT6	SEE ONE-LINES FOR INFORMATION	SEE ONE-LINES FOR INFORMATION	N/A	INSTALL 12" ABOVE CEILING
15		AUDIO AMPLIFIER, 320-WATT 25/70V	N/A	N/A	N/A	AT RACK	CAT6	SEE ONE-LINES FOR INFORMATION	SEE ONE-LINES FOR INFORMATION	N/A	INSTALL 12" ABOVE CEILING
16		ADMINISTRATIVE CONTROL CONSOLE / PHONE SET	N/A	N/A	N/A	AT RECEPTION DESK	CAT6	SEE ONE-LINES FOR INFORMATION	SEE ONE-LINES FOR INFORMATION	N/A	INSTALL 12" ABOVE CEILING
17		ANALOG INTERCOM SPEAKER (W/P-EXTERIOR WEATHERPROOF SPEAKER)	PER MFR.	PER MFR.	SURFACE RACEWAY / 1 EA. 1" C	REPLACE EXISTING / 90° AFF	CAT6	SEE ONE-LINES FOR INFORMATION	SEE ONE-LINES FOR INFORMATION	N/A	N/A
18		IP INTERCOM SPEAKER	PER MFR.	PER MFR.	SURFACE RACEWAY / 1 EA. 1" C	REPLACE EXISTING / 90° AFF	2C #18	SEE ONE-LINES FOR INFORMATION	SEE ONE-LINES FOR INFORMATION	N/A	N/A
19		IP ANALOG CLOCK	REUSE EXISTING / SINGLE GANG	REUSE EXISTING / SINGLE GANG	SURFACE RACEWAY / 1 EA. 1" C	REPLACE EXISTING / 90° AFF	CAT6	SEE ONE-LINES FOR INFORMATION	SEE ONE-LINES FOR INFORMATION	N/A	N/A
20		IP DIGITAL CLOCK	REUSE EXISTING / SINGLE GANG	REUSE EXISTING / SINGLE GANG	SURFACE RACEWAY / 1 EA. 1" C	REPLACE EXISTING / 90° AFF	CAT6	SEE ONE-LINES FOR INFORMATION	SEE ONE-LINES FOR INFORMATION	N/A	N/A
21		ANALOG INTERCOM SPEAKER AND IP ANALOG CLOCK COMBO.	REUSE EXISTING / SINGLE GANG	REUSE EXISTING / SINGLE GANG	SURFACE RACEWAY / 1 EA. 1" C	REPLACE EXISTING / 90° AFF	2C #18 (SPK) / CAT6 (CLOCK)	SEE ONE-LINES FOR INFORMATION	SEE ONE-LINES FOR INFORMATION	N/A	N/A
22		IP INTERCOM SPEAKER AND IP ANALOG CLOCK COMBO.	REUSE EXISTING / SINGLE GANG	REUSE EXISTING / SINGLE GANG	SURFACE RACEWAY / 1 EA. 1" C	REPLACE EXISTING / 90° AFF	2 EA. CAT6	SEE ONE-LINES FOR INFORMATION	SEE ONE-LINES FOR INFORMATION	N/A	N/A
23		IP INTERCOM SPEAKER AND IP DIGITAL CLOCK COMBO.	REUSE EXISTING / SINGLE GANG	REUSE EXISTING / SINGLE GANG	SURFACE RACEWAY / 1 EA. 1" C	REPLACE EXISTING / 90° AFF	2 EA. CAT6	SEE ONE-LINES FOR INFORMATION	SEE ONE-LINES FOR INFORMATION	N/A	N/A

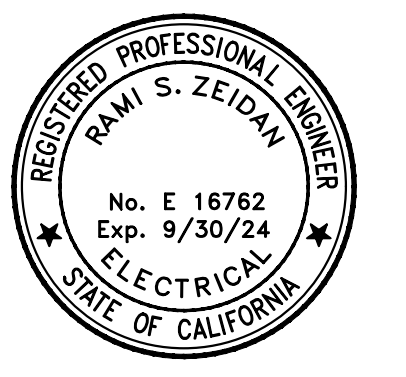


- NOTES:
- USE EXTENSION RINGS, DEPTH AS REQUIRED, ON ALL BACK BOX LOCATIONS.
  - REFERENCE ANSI / EIA / TIA STANDARDS AS APPLICABLE.
  - ROUTE CONDUIT IN-WALL TO NEAREST TO ACCESSIBLE CEILING SPACE. CONTRACTOR SHALL NOTIFY ARCHITECT/DISIGNER IF CONDUITS ARE UNABLE TO BE INSTALLED IN-WALL PRIOR TO SURFACE MOUNTED CONDUIT INSTALLATION.
  - ALL TRIM RINGS AND INSIDE OF BACK BOX SHALL BE PAINTED 'GREEN' FOR PRE-SHEETROCK / WALL PANEL IN-WALL INFRASTRUCTURE INSPECTION.

AGENCY APPROVAL STAMP

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 1209 Pleasant Grove Blvd.  
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 Job #: 23-2034

PROFESSIONAL STAMP



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CLIENT

**SACRAMENTO CITY UNIFIED SCHOOL DISTRICT**  
 5735 47TH AVENUE,  
 SACRAMENTO CA. 95824

PROJECT

**FATHER KEITH KENNY MIDDLE SCHOOL**  
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 SACRAMENTO CA. 95817

**SITE-WIDE INTERCOM AND CLOCK MODERNIZATION**

SHEET TITLE

**TECHNOLOGY SYMBOL LEGEND**

LPCE PROJECT NO.	23-2034
DESIGNED BY:	JZ/RL
CHECKED BY:	LPCE
ISSUE DATE:	2023/06/08
WORKING DATE:	2023/06/08

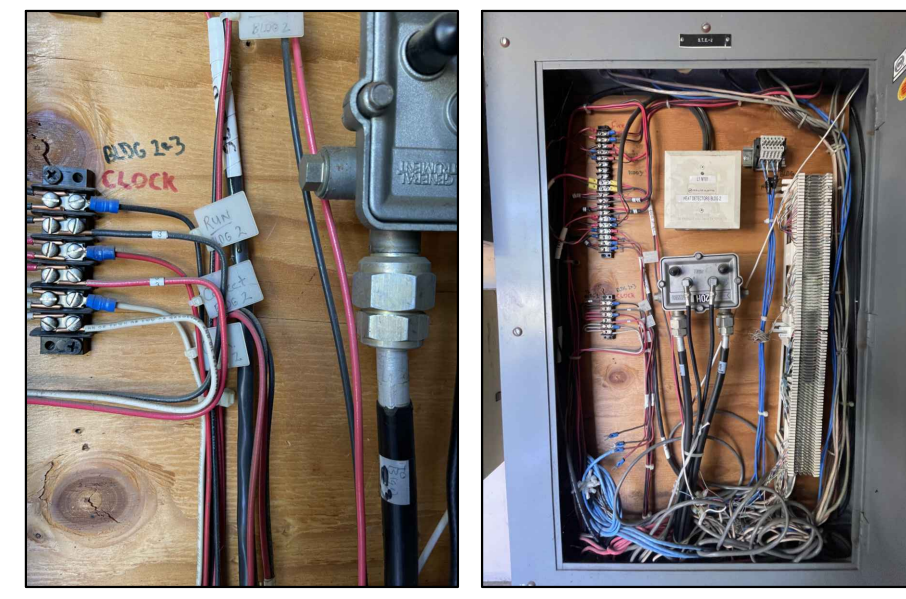
SHEET NUMBER

**T0.01**

Login Name: jzamora  
 Print Date: June 09, 2023 - 4:00 pm  
 Project File: 2023 LP Project 23-2034 - SCUSD\_Keith Kenny MS Clock-Intercom LP CAD 23-2034 - SCUSD\_Keith Kenny MS Clock-Intercom LP CAD 23-2034 - SCUSD\_Keith Kenny MS Intercom-Clock\_T0.01\_Symbol Legend.dwg  
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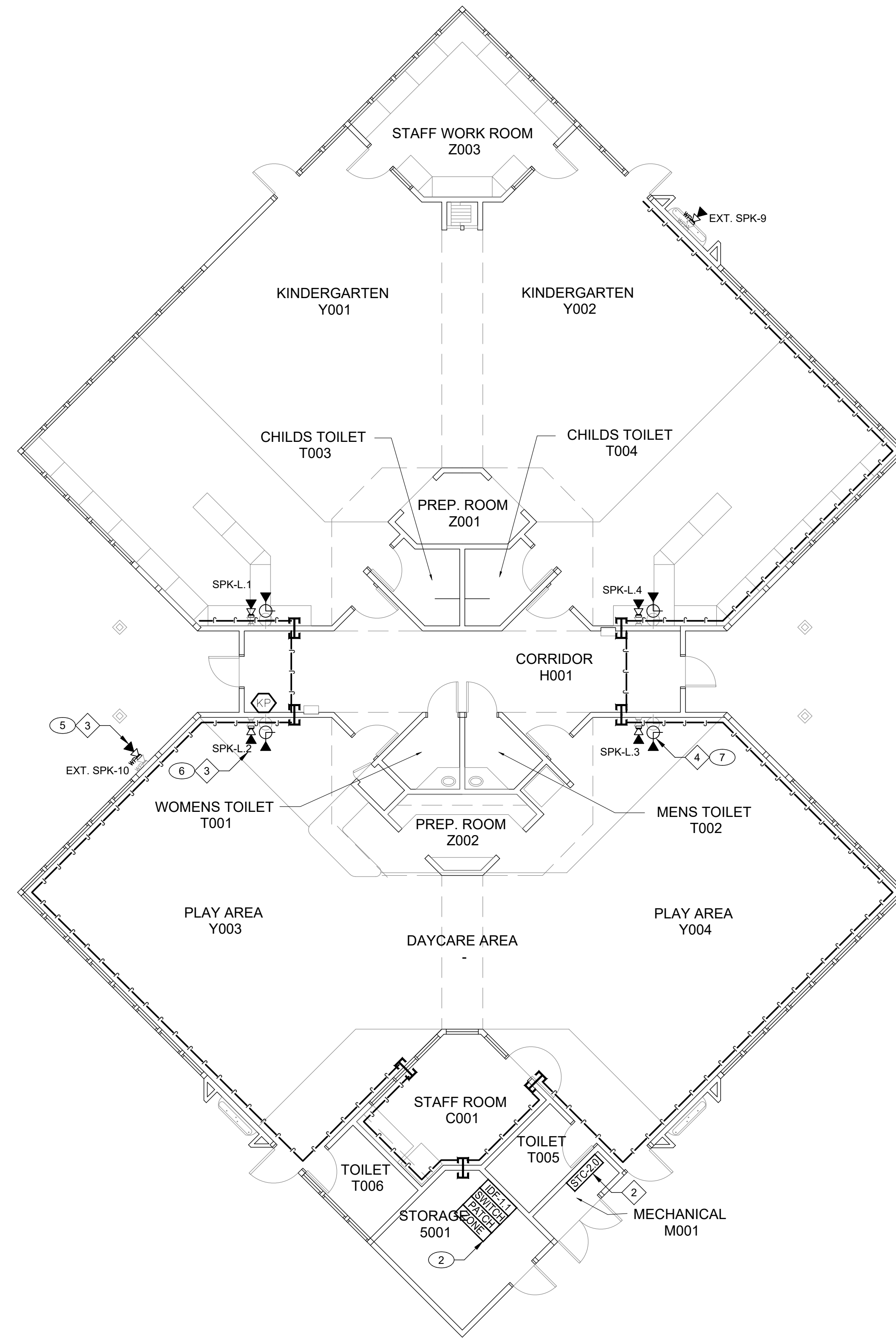




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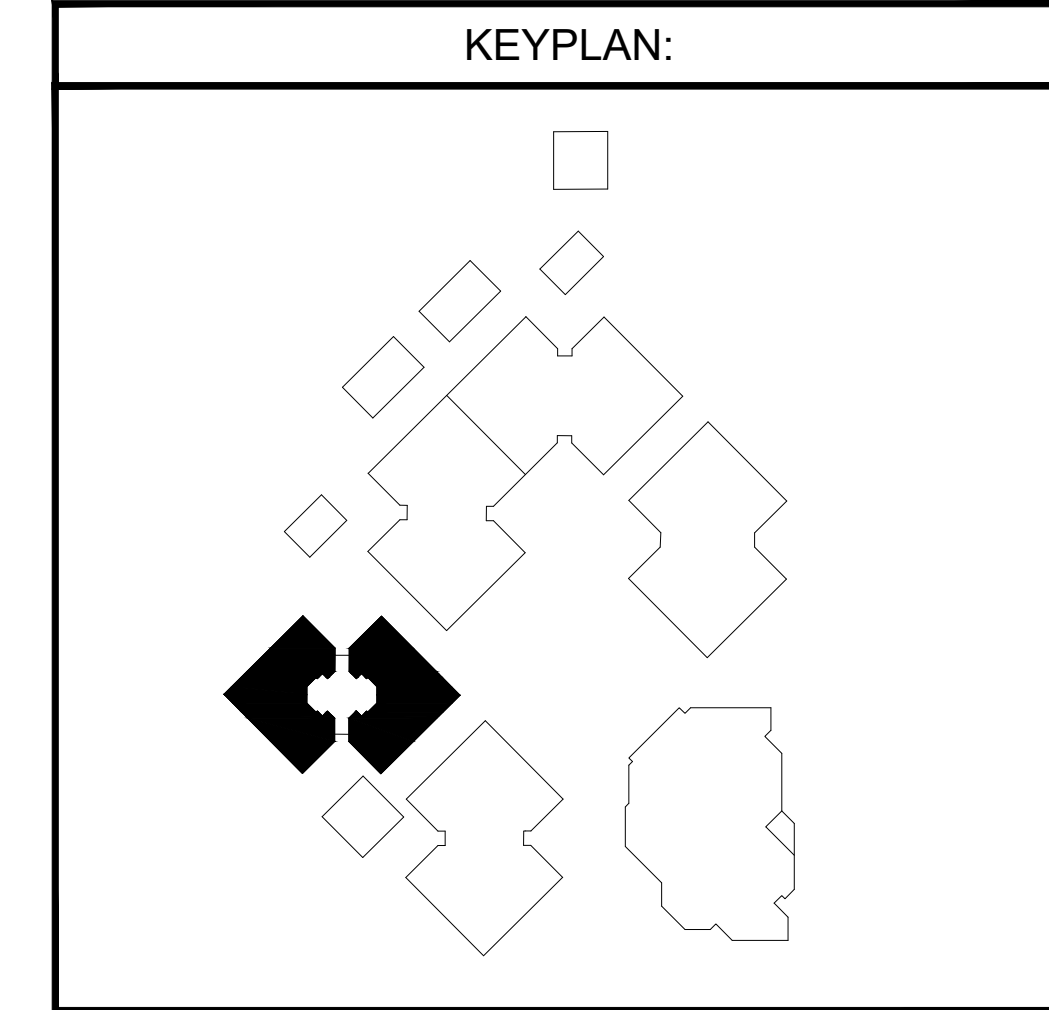
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- SHEET GENERAL NOTES:**
1. ALL EQUIPMENT SHOWN ON CONSTRUCTION DOCUMENTS SHALL BE NEW. CONTRACTOR FURNISHED/CONTRACTOR INSTALLED UNLESS SPECIFIED ON DRAWINGS AND/OR SCHEDULES.
  2. ALL TECHNOLOGY SYSTEMS MUD RINGS SHALL BE PAINTED GREEN FOR A PRE-WALL FINISH/PANEL BOARD INSPECTION OF IN-WALL HORIZONTAL CABLING INFRASTRUCTURE.
  3. ALL EXPOSED CONDUITS, STRUCTURED CHANNEL, FASTENERS SHALL BE PRIME WHITE AND PAINTED TO MATCH SURROUNDING AREA.
  4. WORK AREA OUTLET (WAO), AND FIELD DEVICE CABLING SHALL BE TERMINATED IN MODULAR PATCH PANELS IN SEQUENTIAL ORDER OF ROOM NUMBER, DROP ID.
  5. ALL NETWORK CABLES SHALL BE MACHINE LABELED AT PATCH PANEL FACE, AND AT CATEGORY CABLE (BOTH ENDS AS SHOWN ON DETAILS/SPECIFICATIONS).
  6. ALL SPEAKER CABLES SHALL BE MACHINE LABELED AT SPEAKER AND STC.
  7. ALL CLOCKS SHALL BE SET TO NTP SERVER, PACIFIC DAYLIGHT TIME (PST).
  8. ALL EXTERIOR SPEAKERS SHALL BE ADJUSTED TO NOT EXCEED 65dB AT THE SCHOOL PROPERTY LINE.

- DEMO KEYNOTES:**
- | KEYNOTE ID | DESCRIPTION  |
|------------|--|
| 1          | DEMO EXISTING INTERCOM CAMPUS CONTROLLER AND ASSOCIATED HARDWARE. WIPE DOWN CONTROL EQUIPMENT, INVENTORY AND RETURN TO THE DISTRICT IN "AS-IS" CONDITION. DEMO ALL ASSOCIATED CONTROL, HARDWARE, INTERCONNECTION CABLING, INCLUDING MULTI-PAIR COPPER FEEDERS TO EXISTING SIGNAL TERMINATION CABINETS, TERMINATION BLOCKS. |
| 2          | DEMO EXISTING SIGNAL TERMINATION CABINET AND TERMINAL BLOCKS. DEMO ALL CABLING FROM EXISTING TERMINAL BLOCKS TO FIELD SPEAKER LOCATIONS.   |
| 3          | DEMO EXISTING SPEAKER DRIVER, EXISTING BACK BOX AND Baffle SHALL BE RE USED, TYP. U.N.O.   |
| 4          | DEMO EXISTING CLOCK, WIPE DOWN, INVENTORY AND RETURN TO THE DISTRICT IN "AS-IS" CONDITION.   |
| 5          | ALL DEMO EQUIPMENT AND MATERIALS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR UNLESS NOTED OTHERWISE. USE OF SCHOOL WASTE DISPOSAL CONTAINERS SHALL NOT BE PERMITTED.   |

- KEYNOTES:**
- | KEYNOTE ID | DESCRIPTION   |
|------------|---|
| 1          | NEW TELECENTER U IP SYSTEM SITE CONTROLLER.   |
| 2          | NEW EXTERIOR SPEAKER ZONE AMPLIFIER.  |
| 3          | NEW EXTERIOR SPEAKER AMPLIFIER W/ TELECENTER IP MODULE.   |
| 4          | INSTALL NEW INTERCOM SPEAKER / CLOCK COMBO IN CLASSROOM. ROUTE NEW IP SPEAKER (1 EA. CAT6) / CLOCK (1 EA. CAT6) CABLES TO THE NEAREST IDF.            |
| 5          | INSTALL NEW EXTERIOR INTERCOM SPEAKER. REUSE EXISTING BACK BOX, Baffle. ROUTE NEW SPEAKER (1 EA. 2C #18) CABLE TO THE NEAREST TELECENTER U AMPLIFIER. |
| 6          | INSTALL NEW INTERIOR INTERCOM SPEAKER. REUSE EXISTING BACK BOX, Baffle. ROUTE NEW SPEAKER (1 EA. CAT6) CABLE TO THE NEAREST IDF.                      |
| 7          | INSTALL NEW IP ANALOG SWEEP TYPE CLOCK. ROUTE (1 EA. CAT6) CABLE TO THE NEAREST IDF.  |
| 8          | INSTALL NEW IP DIGITAL DISPLAY CLOCK. ROUTE (1 EA. CAT6) CABLE TO THE NEAREST IDF.  |
| 9          | INSTALL NEW SURFACE RACEWAY WITH APPROPRIATE TRANSITION AND END FITTINGS. MOUNT HIGH ON WALL-APPROXIMATE 6" FROM CEILING.                             |
| 10         | EXISTING HIGH CAPACITY CABLE TRAY / SPINE.  |
| 11         | EXISTING BACK BOX AND UNDERGROUND CONDUIT. SEE SITE PLAN FOR ADDITIONAL INFORMATION.  |
| 12         | EXISTING SIGNAL TERMINATION CABINET (STC). SEE DEMO NOTES FOR ADDITIONAL REQUIREMENTS.  |



TECHNOLOGY BUILDING-L1 & L2 FLOOR PLAN

AGENCY APPROVAL STAMP

MEP & FS / Sustainability / CxA

**LP CONSULTING ENGINEERS**  
 1209 Pleasant Grove Blvd.  
 Roseville, CA 95678  
 Ph: (916) 771-0778  
 www.lpeengineers.com  
 Job #: 23-2034

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER  
 RAY S. ZEIDAN  
 No. E 16762  
 Exp. 9/30/24  
 ELECTRICAL  
 STATE OF CALIFORNIA

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**SACRAMENTO CITY UNIFIED SCHOOL DISTRICT**  
 5735 47TH AVENUE,  
 SACRAMENTO CA. 95824

PROJECT

**FATHER KEITH KENNY MIDDLE SCHOOL**  
 3525 MARTIN LUTHER KING JR. BLVD.,  
 SACRAMENTO CA. 95817

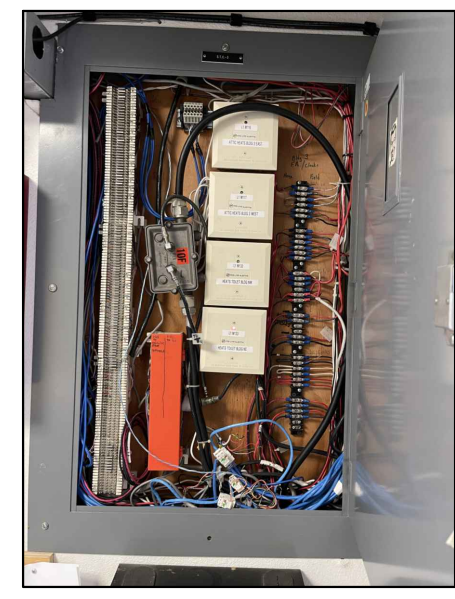
**SITE-WIDE INTERCOM AND CLOCK MODERNIZATION**

SHEET TITLE

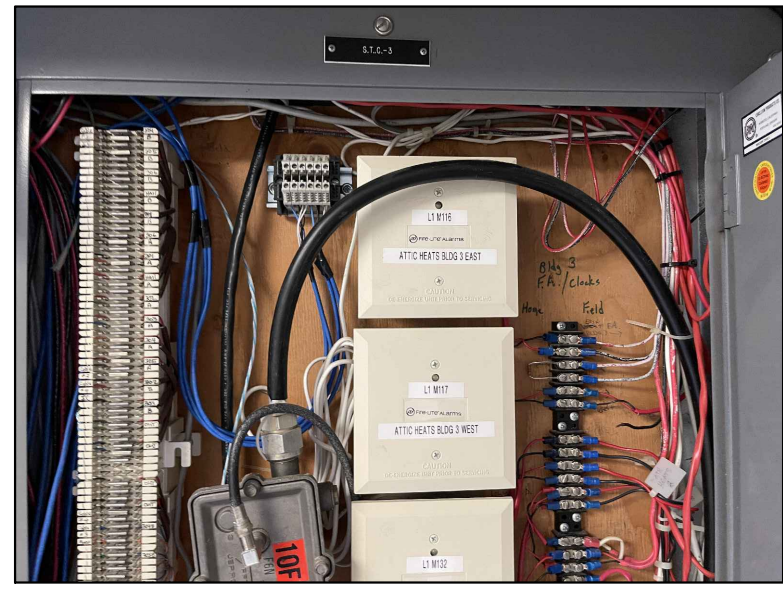
**TECHNOLOGY BUILDING-L1 & L2 PARTIAL FLOOR PLAN**

LPCE PROJECT NO.	23-2034
DESIGNED BY:	JZ/RL
CHECKED BY:	LPCE
ISSUE DATE:	2023/06/08
WORKING DATE:	2023/06/08
SHEET NUMBER	<b>T2.01</b>

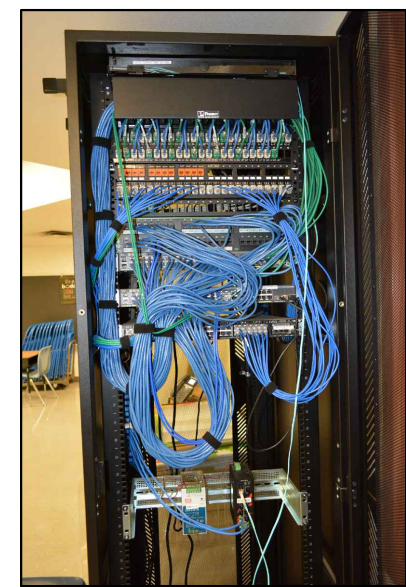
Login Name: jzamora  
 Plot Date: June 09, 2023 - 4:01 pm  
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 XREFS: Xborder1 117402\_SFR\_Outline  
 CAD: 23-2034-SCUSD\_Keith Kenny MS Check-IntercomL1 & L2\_Floor Plan.dwg  
 T2.01\_Building-L1 & L2\_Floor Plan.dwg  
 Intercom-Check\_T2.01



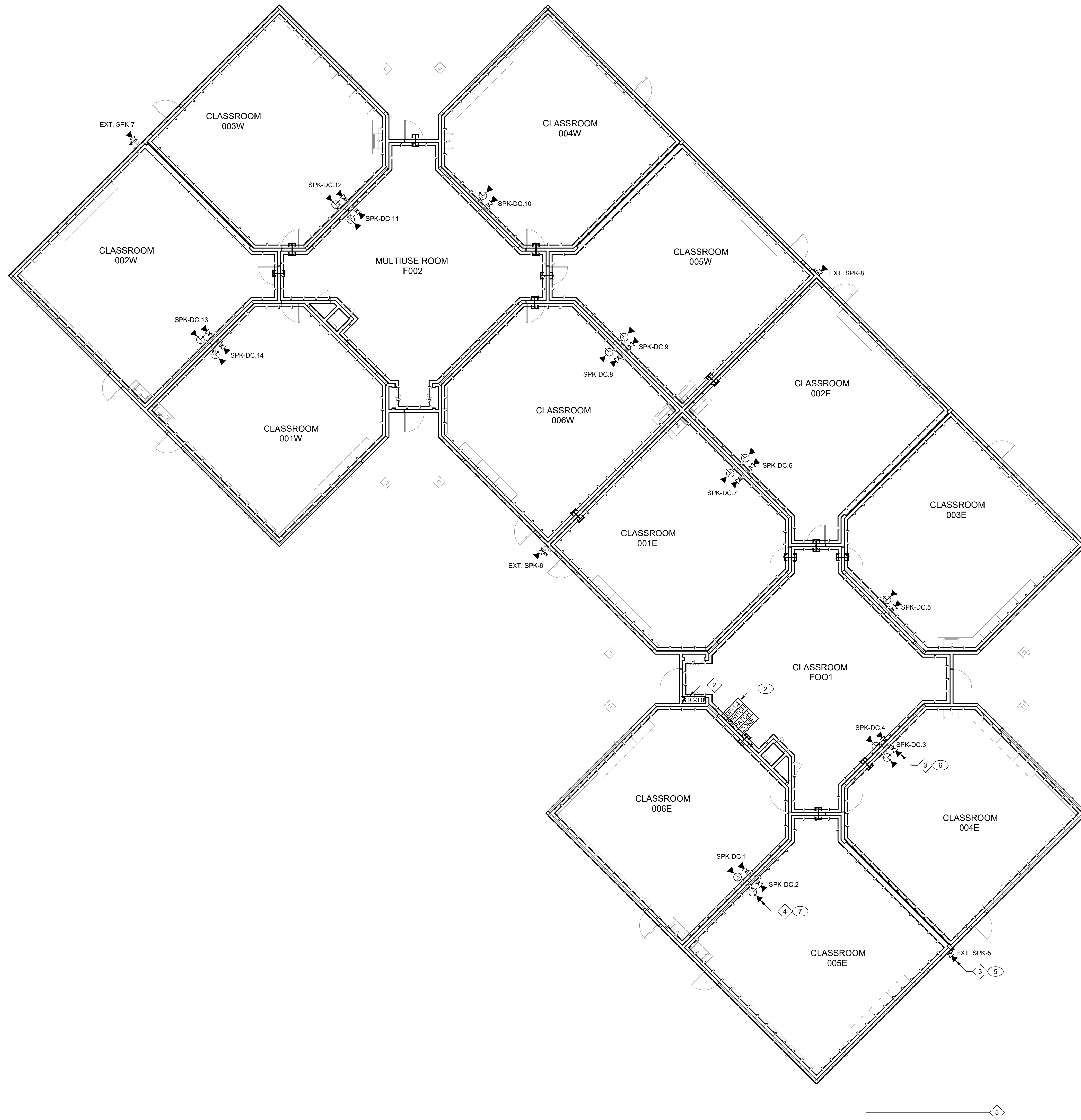
STC - 3.0 | 2



STC - 3.0 | 3



IDF - 1.4 | 4



**SHEET GENERAL NOTES:**

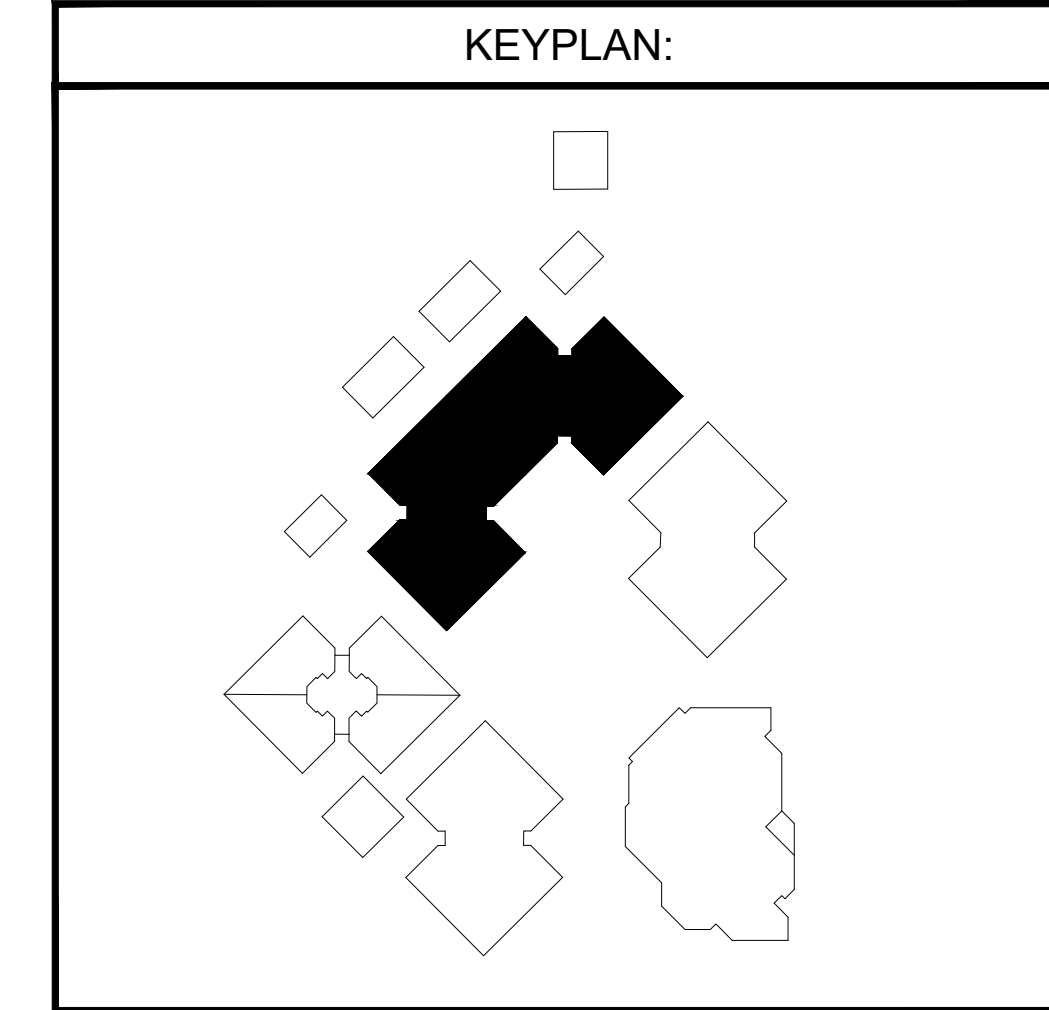
1. ALL EQUIPMENT SHOWN ON CONSTRUCTION DOCUMENTS SHALL BE NEW. CONTRACTOR FURNISHED/CONTRACTOR INSTALLED UNLESS SPECIFIED ON DRAWINGS AND/OR SCHEDULES.
2. ALL TECHNOLOGY SYSTEMS MUD RINGS SHALL BE PAINTED GREEN FOR A PRE-FINAL FINISH/PANEL BOARD INSPECTION OF IN-WALL HORIZONTAL CABLING INFRASTRUCTURE.
3. ALL EXPOSED CONDUITS, STRUCTURED CHANNEL, FASTENERS SHALL BE PRIME WHITE AND PAINTED TO MATCH SURROUNDING AREA.
4. WORK AREA OUTLET (WAO), AND FIELD DEVICE CABLING SHALL BE TERMINATED IN MODULAR PATCH PANELS IN SEQUENTIAL ORDER OF ROOM NUMBER, DROP ID.
5. ALL NETWORK CABLES SHALL BE MACHINE LABELED AT PATCH PANEL FACE, AND AT CATEGORY CABLE (BOTH ENDS AS SHOWN ON DETAILS/SPECIFICATIONS).
6. ALL SPEAKER CABLES SHALL BE MACHINE LABELED AT SPEAKER AND STC.
7. ALL CLOCKS SHALL BE SET TO NTP SERVER, PACIFIC DAYLIGHT TIME (PST).
8. ALL EXTERIOR SPEAKERS SHALL BE ADJUSTED TO NOT EXCEED 65dB AT THE SCHOOL PROPERTY LINE.

**DEMO KEYNOTES:**

KEYNOTE ID	DESCRIPTION
1	DEMO EXISTING INTERCOM CAMPUS CONTROLLER AND ASSOCIATED HARDWARE. WIPE DOWN CONTROL EQUIPMENT, INVENTORY AND RETURN TO THE DISTRICT IN "AS-IS" CONDITION. DEMO ALL ASSOCIATED CONTROL HARDWARE, INTERCONNECTION CABLING, INCLUDING MULTI-PAIR COPPER FEEDERS TO EXISTING SIGNAL TERMINATION CABINETS, TERMINATION BLOCKS.
2	DEMO EXISTING SIGNAL TERMINATION CABINET AND TERMINAL BLOCKS. DEMO ALL CABLING FROM EXISTING TERMINAL BLOCKS TO FIELD SPEAKER LOCATIONS.
3	DEMO EXISTING SPEAKER DRIVER, EXISTING BACK BOX AND BAFFLE SHALL BE RE USED, TYP. U.N.O.
4	DEMO EXISTING CLOCK, WIPE DOWN, INVENTORY AND RETURN TO THE DISTRICT IN "AS-IS" CONDITION.
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**KEYNOTES:**

KEYNOTE ID	DESCRIPTION
1	NEW TELECENTER U IP SYSTEM SITE CONTROLLER.
2	NEW EXTERIOR SPEAKER ZONE AMPLIFIER.
3	NEW EXTERIOR SPEAKER AMPLIFIER W/ TELECENTER IP MODULE.
4	INSTALL NEW INTERCOM SPEAKER / CLOCK COMBO IN CLASSROOM. ROUTE NEW IP SPEAKER (1 EA. CAT6) / CLOCK (1 EA. CAT6) CABLES TO THE NEAREST IDF.
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TECHNOLOGY BUILDING-D&C FLOOR PLAN

AGENCY APPROVAL STAMP

MEP & FS / Sustainability / CxA

**LP CONSULTING ENGINEERS**  
1209 Pleasant Grove Blvd.  
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Ph: (916) 771-0778  
www.lpeengineers.com  
Job #: 23-2034

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER  
Ravi S. Zeidan  
No. E 16762  
Exp. 9/30/24  
ELECTRICAL  
STATE OF CALIFORNIA

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5735 47TH AVENUE,  
SACRAMENTO CA. 95824

PROJECT

**FATHER KEITH KENNY MIDDLE SCHOOL**  
3525 MARTIN LUTHER KING JR. BLVD.,  
SACRAMENTO CA. 95817

**SITE-WIDE INTERCOM AND CLOCK MODERNIZATION**

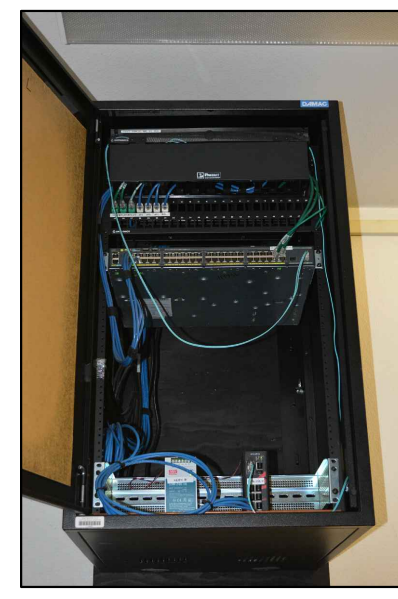
SHEET TITLE

**TECHNOLOGY BUILDING-D&C PARTIAL FLOOR PLAN**

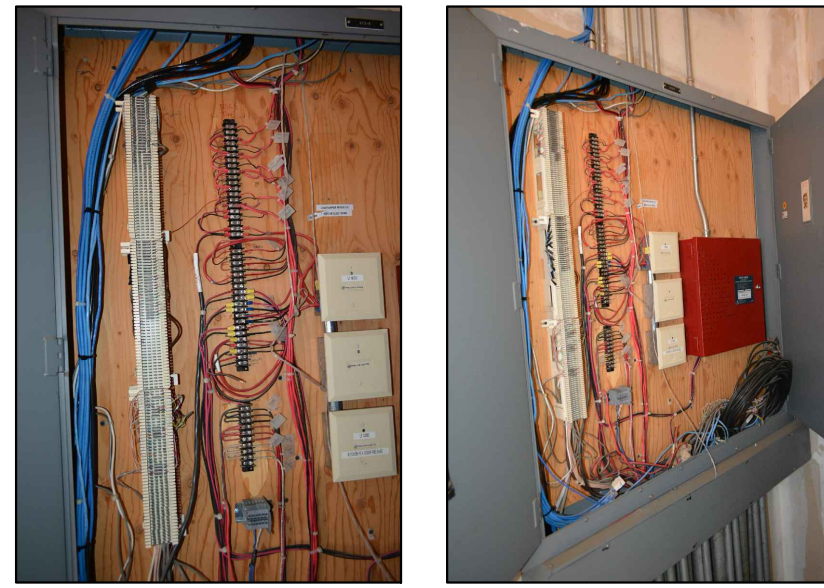
LPCE PROJECT NO.	23-2034
DESIGNED BY:	JZ/RL
CHECKED BY:	LPCE
ISSUE DATE:	2023/06/08
WORKING DATE:	2023/06/08
SHEET NUMBER	<b>T2.02</b>

Login Name: jzamora  
 Plot Date: June 09, 2023 - 4:01 pm  
 Project: 23-2034-SCUSD\_Keith Kenny MS Clock-Intercom/IF CAD/23-2034-SCUSD\_Keith Kenny MS Clock-Intercom/IF CAD/23-2034-SCUSD\_Keith Kenny MS Intercom-Clock\_T2.02\_Building-D&C\_Floor Plan.dwg  
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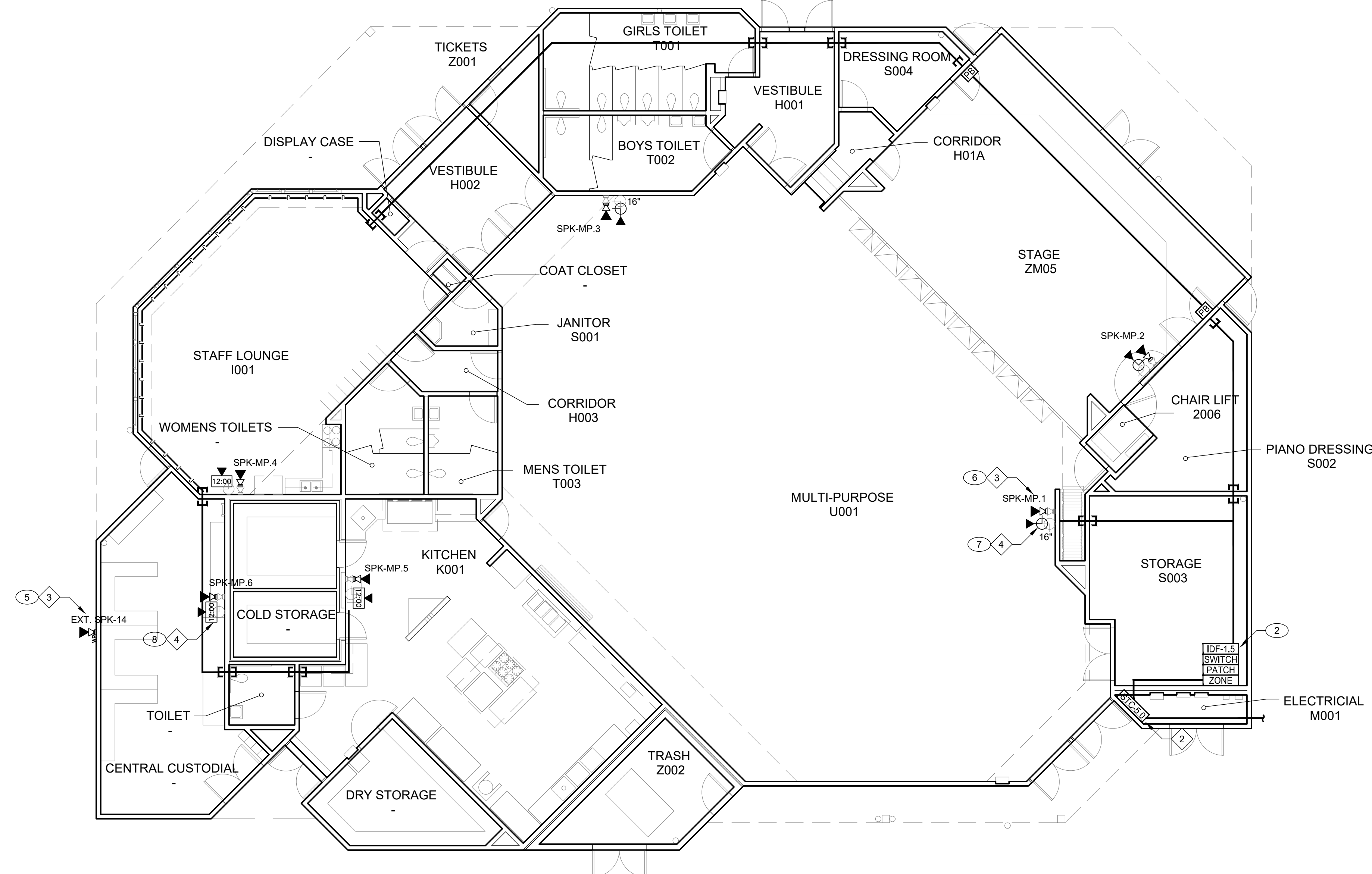




IDF - 1.5 | 2



STC - 5.0 | 3



**SHEET GENERAL NOTES:**

1. ALL EQUIPMENT SHOWN ON CONSTRUCTION DOCUMENTS SHALL BE NEW, CONTRACTOR FURNISHED/CONTRACTOR INSTALLED UNLESS SPECIFIED ON DRAWINGS AND/OR SCHEDULES.
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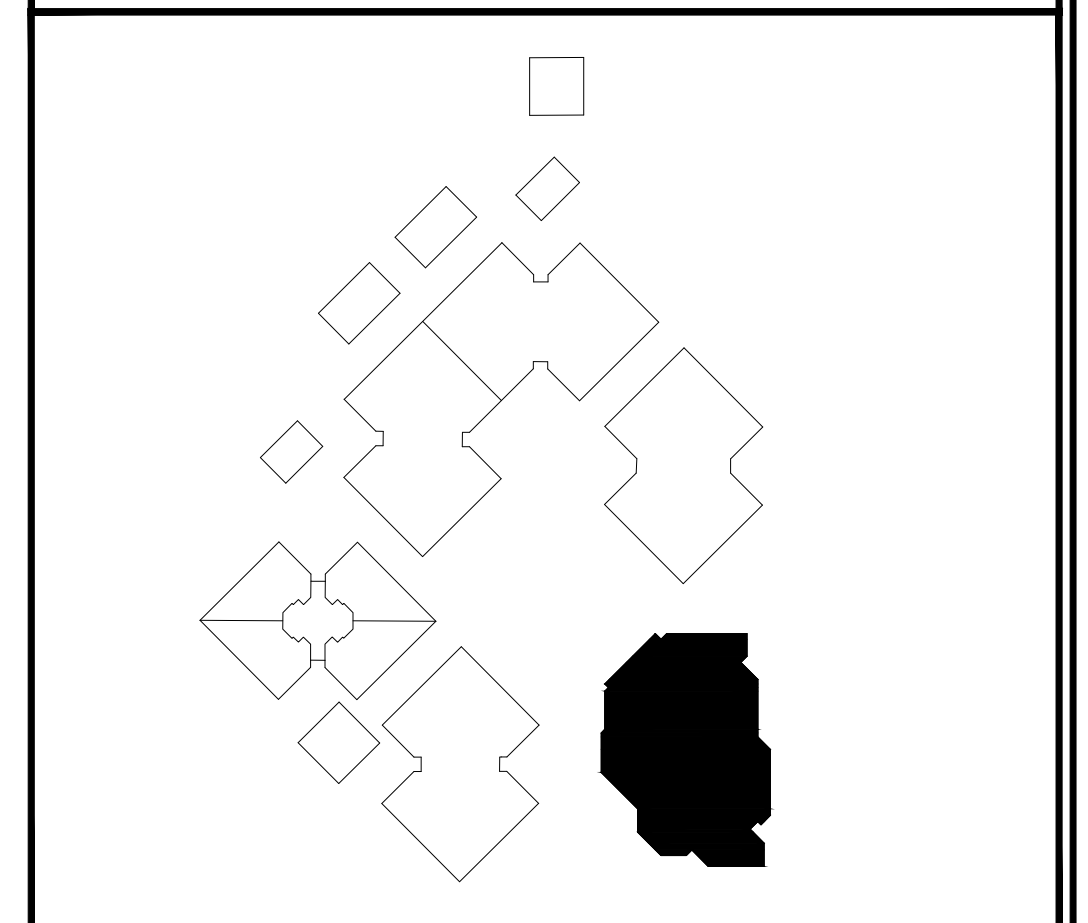
**DEMO KEYNOTES:**

- | KEYNOTE ID | DESCRIPTION   |
|------------|---|
| 1          | DEMO EXISTING INTERCOM CAMPUS CONTROLLER AND ASSOCIATED HARDWARE, WIPE DOWN CONTROL EQUIPMENT, INVENTORY AND RETURN TO THE DISTRICT IN "AS-IS" CONDITION. DEMO ALL ASSOCIATED CONTROL, HARDWARE INTERCONNECTION CABLING, INCLUDING MULTI-PAIR COPPER FEEDERS TO EXISTING SIGNAL TERMINATION CABINETS, TERMINATION BLOCKS. |
| 2          | DEMO EXISTING SIGNAL TERMINATION CABINET AND TERMINAL BLOCKS. DEMO ALL CABLING FROM EXISTING TERMINAL BLOCKS TO FIELD SPEAKER LOCATIONS.  |
| 3          | DEMO EXISTING SPEAKER DRIVER, EXISTING BACK BOX AND Baffle SHALL BE RE USED, TYP, U.N.O.  |
| 4          | DEMO EXISTING CLOCK, WIPE DOWN, INVENTORY AND RETURN TO THE DISTRICT IN "AS-IS" CONDITION.  |
| 5          | ALL DEMO EQUIPMENT AND MATERIALS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR UNLESS NOTED OTHERWISE. USE OF SCHOOL WASTE DISPOSAL CONTAINERS SHALL NOT BE PERMITTED.  |

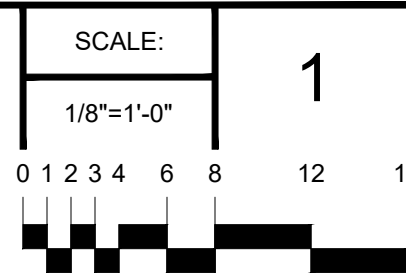
**KEYNOTES:**

- | KEYNOTE ID | DESCRIPTION   |
|------------|---|
| 1          | NEW TELECENTER U IP SYSTEM SITE CONTROLLER.   |
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| 3          | NEW EXTERIOR SPEAKER AMPLIFIER W/ TELECENTER IP MODULE.   |
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| 10         | EXISTING HIGH CAPACITY CABLE TRAY / SPINE.  |
| 11         | EXISTING BACK BOX AND UNDERGROUND CONDUIT. SEE SITE PLAN FOR ADDITIONAL INFORMATION.  |
| 12         | EXISTING SIGNAL TERMINATION CABINET (STC). SEE DEMO NOTES FOR ADDITIONAL REQUIREMENTS.  |

**KEYPLAN:**



TECHNOLOGY BUILDING-MP- FLOOR PLAN



AGENCY APPROVAL STAMP

MEP & FS / Sustainability / CxA

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 Roseville, CA 95678  
 Ph: (916) 771-0778  
 www.lpeengineers.com  
 Job #: 23-2034

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REGISTERED PROFESSIONAL ENGINEER  
 RAY S. ZEIDAN  
 No. E 16762  
 Exp. 9/30/24  
 ELECTRICAL  
 STATE OF CALIFORNIA

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**SACRAMENTO CITY UNIFIED SCHOOL DISTRICT**  
 5735 47TH AVENUE,  
 SACRAMENTO CA. 95824

PROJECT

**FATHER KEITH KENNY MIDDLE SCHOOL**  
 3525 MARTIN LUTHER KING JR. BLVD.,  
 SACRAMENTO CA. 95817

**SITE-WIDE INTERCOM AND CLOCK MODERNIZATION**

SHEET TITLE

**TECHNOLOGY BUILDING-MP FLOOR PLAN**

LPCE PROJECT NO.	23-2034
DESIGNED BY:	JZ/RL
CHECKED BY:	LPCE
ISSUE DATE:	2023/06/08
WORKING DATE:	2023/06/08
SHEET NUMBER	<b>T2.04</b>

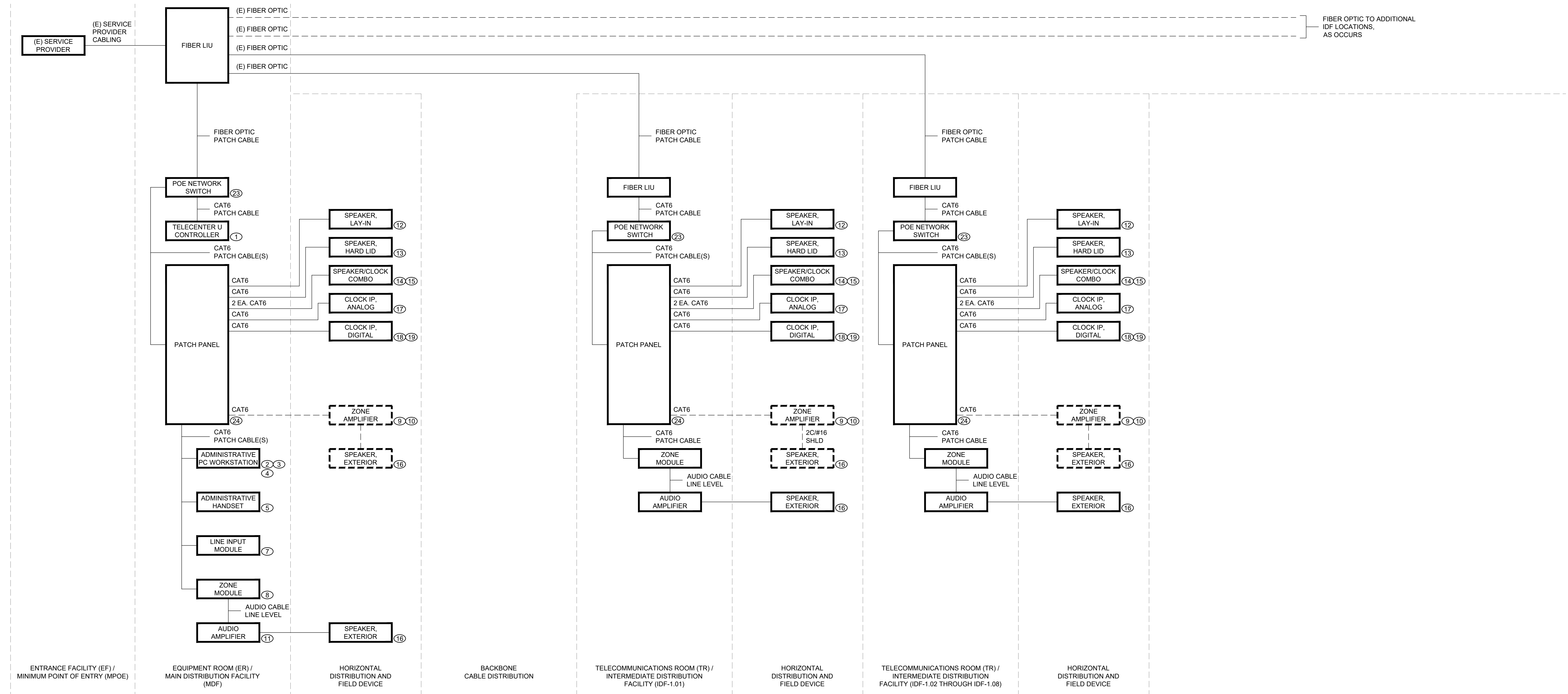
Login Name: jzamora  
 Plot Date: June 09, 2023 - 4:02 pm  
 Project: 23-2034-SCUSD\_Keith Kenny MS Check-Intercom/IF CAD/23-2034-SCUSD\_Keith Kenny MS Check-Intercom/IF CAD/23-2034-SCUSD\_Keith Kenny MS Intercom-Check\_T2.04-Building-MP-Floor Plan.dwg  
 XREFS: Xborder1 [1]7.005] SF\_Outline



### MAJOR EQUIPMENT LIST

ALL EQUIPMENT SHALL BE CONTRACTOR FURNISHED, CONTRACTOR INSTALLED UNLESS NOTED OTHERWISE

ROW ID	DESCRIPTION	MANUFACTURER	MODEL	RACK UNIT (RU)	DEPTH	POWER	WEIGHT (CAPACITY)	COMMENTS
①	IP SYSTEM SITE CONTROLLER	RAULAND	TCC2000	EDIT	DEPTH	120VAC	N/A	N/A
②	SITE CONTROLLER SOFTWARE LICENSE	RAULAND	TCU3000SW	N/A	N/A	N/A	N/A	CONFIGURE AT ADMIN PC WORKSTATION
③	SIP STREAM SOFTWARE LICENSE	RAULAND	TCU3100SW	N/A	N/A	N/A	N/A	CONFIGURE AT ADMIN PC WORKSTATION
④	GRAPHICAL MAP SOFTWARE LICENSE	RAULAND	TCU3300SW	N/A	N/A	N/A	N/A	CONFIGURE AT ADMIN PC WORKSTATION
⑤	ADMINISTRATIVE CONSOLE, PHONE HANDSET	RAULAND	TCC2045	N/A	N/A	N/A	N/A	N/A
⑥	IP SPEAKER + ROOM CONTROL MODULE	RAULAND	TCC2011A	N/A	N/A	POE	N/A	N/A
⑦	AUDIO LINE INPUT MODULE	RAULAND	TCC2055	N/A	N/A	120VAC	N/A	N/A
⑧	AUDIO ZONE MODULE	RAULAND	TCC2022	N/A	N/A	120VAC	N/A	N/A
⑨	ZONE AUDIO AMPLIFIER, 35-WATT, 25V	RAULAND	TCC3022	N/A	N/A	120VAC	N/A	N/A
⑩	POWER SUPPLY FOR ZONE AMPLIFIER	RAULAND	TCC3022PS	N/A	N/A	120VAC	N/A	N/A
⑪	AUDIO AMPLIFIER, 2X160-WATT, 25V	POWERSOFT	MEZZO-322-A	N/A	N/A	120VAC	N/A	N/A
⑫	INTERCOM SPEAKER, LAY-IN (INTERIOR)	RAULAND	IP MODULE: TCC2011A SPEAKER: BAFN12X2L8RJ	N/A	N/A	N/A	N/A	N/A
⑬	INTERCOM SPEAKER, HARD LID (INTERIOR)	RAULAND	IP MODULE: TCC2011A SPEAKER: ACC1480 (US0880 W/ RJ45) BACK BOX: ACC1112 BAFFLE: ACC1003	N/A	N/A	N/A	N/A	N/A
⑭	INTERCOM SPEAKER AND CLOCK COMBO, DIGITAL MESSAGE BOARD	RAULAND	IP MODULE: TCC2011A SPEAKER: ACC1480 (US0880 W/ RJ45) BACK BOX: ACC3011SB BAFFLE: ACC13011S MESSAGE: TCC3011S	N/A	N/A	N/A	N/A	N/A
⑮	INTERCOM SPEAKER AND CLOCK COMBO, 12"-DIA., ANALOG SWEEP	RAULAND / LOWELL / SAPLING	IP MODULE: TCC2011A SPEAKER: ACC1480 (US0880 W/ RJ45) BACK BOX: PC712 BAFFLE: AP-700 CLOCK: SAP-1BS-12R-O	N/A	N/A	N/A	N/A	N/A
⑯	INTERCOM SPEAKER, (EXTERIOR)	RAULAND / LOWELL	SPEAKER: 8C10MR8-T72 BACK BOX: ACC1113 BAFFLE: ACC1012	N/A	N/A	N/A	N/A	N/A
⑰	CLOCK IP, ANALOG SWEEP	SAPLING	12": SAP-1BS-12R-0 16": SAP-1BS-16R-0	N/A	N/A	N/A	N/A	N/A
⑱	DIGITAL CLOCK AND MESSAGE BOARD, SMALL	RAULAND	TCC3011S	N/A	N/A	N/A	N/A	N/A
⑲	DIGITAL CLOCK AND MESSAGE BOARD, LARGE	RAULAND	TCC3011L	N/A	N/A	N/A	N/A	N/A
⑳	PROTECTIVE CLOCK CAGE	NATIONAL TIME	AS REQ'D	N/A	N/A	N/A	N/A	N/A
㉑	UNIVERSAL RACK MOUNTING KIT	RAULAND	TCC2099	N/A	N/A	N/A	N/A	N/A
㉒	CABLES AND CONNECTORS AS REQ'D FOR COMPLETE SYSTEM OPERATION	AS REQ'D	AS REQ'D	N/A	N/A	N/A	N/A	N/A
㉓	48-PORT NETWORK SWITCH, POE	ARUBA	6200MR8068A	N/A	N/A	N/A	N/A	SEE SPECS. FOR ADDITIONAL INFORMATION
㉔	48-PORT MODULAR PATCH PANEL	OTRONICS	KSU48	N/A	N/A	N/A	N/A	SEE SPECS. FOR ADDITIONAL INFORMATION



TELECENTER U - INTERCOM AND CLOCK SYSTEM ONE-LINE SCALE: 1

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Job #: 23-2034

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PROJECT

**FATHER KEITH KENNY MIDDLE SCHOOL**  
3525 MARTIN LUTHER KING JR. BLVD.,  
SACRAMENTO CA. 95817

**SITE-WIDE INTERCOM AND CLOCK MODERNIZATION**

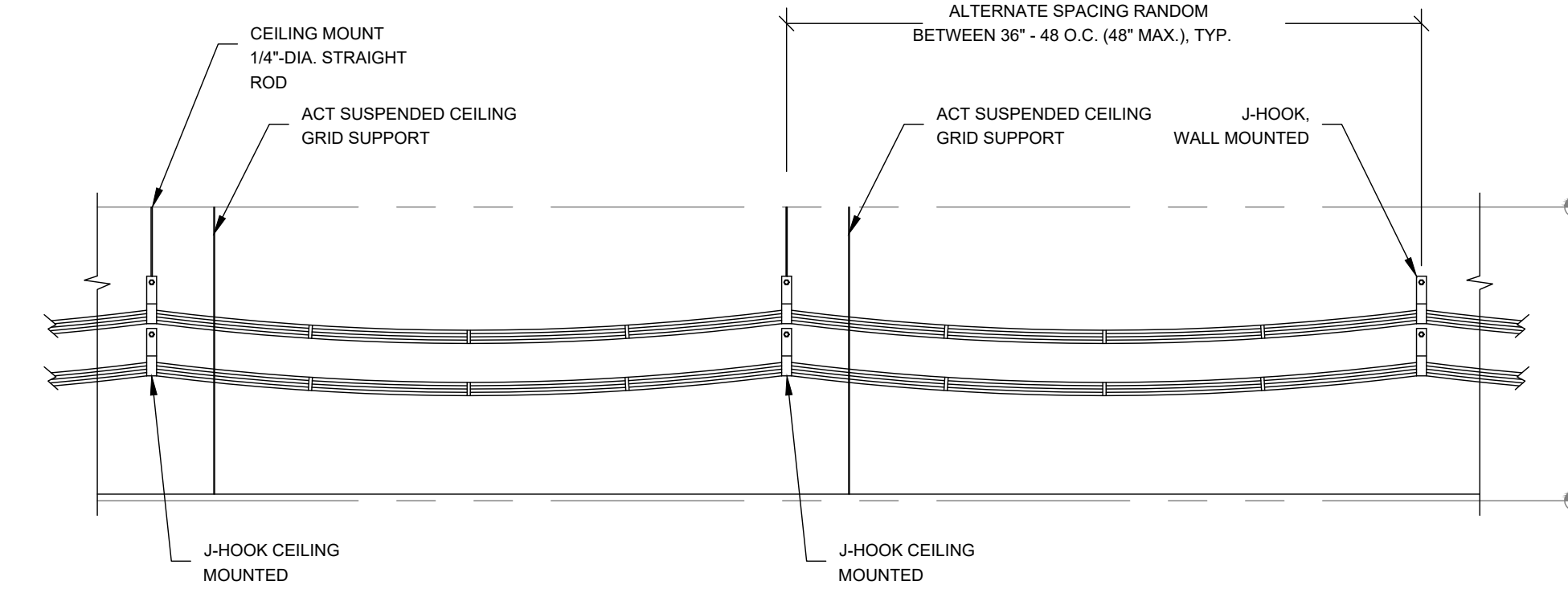
SHEET TITLE

**TECHNOLOGY ONE-LINES AND EQUIPMENT SCHEDULE**

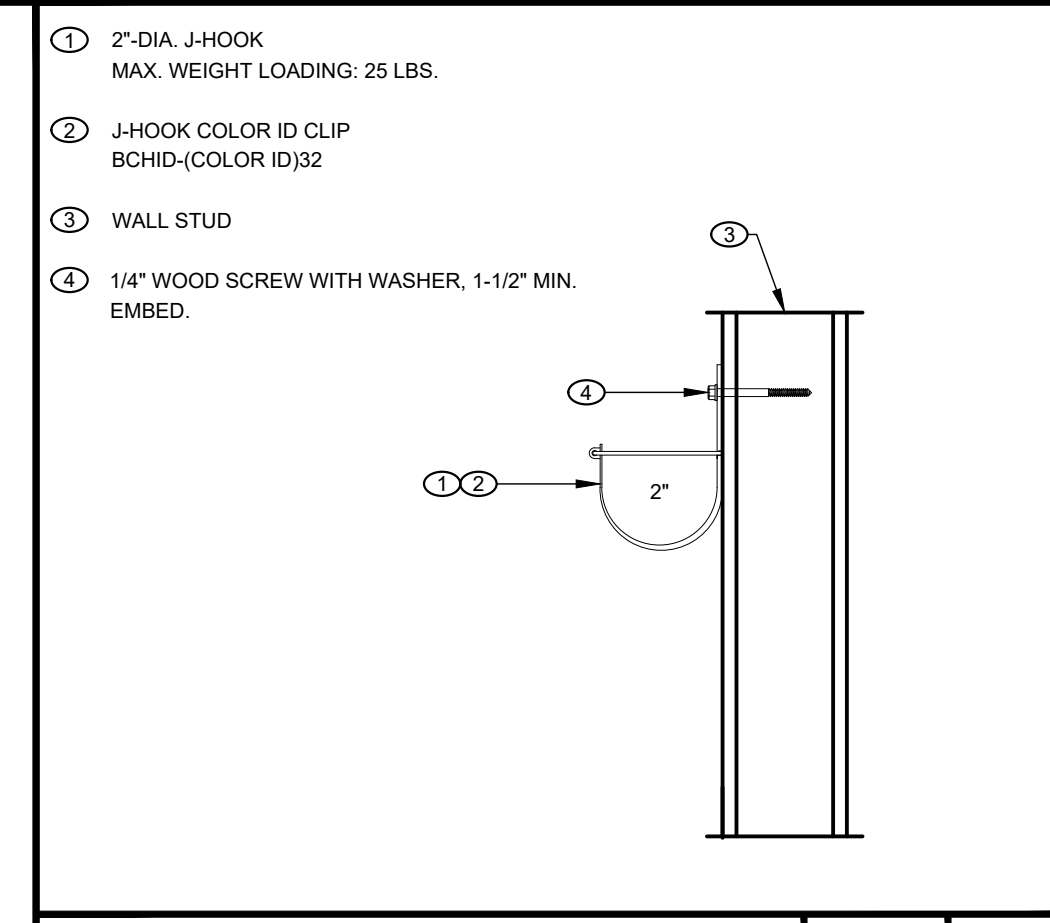
LPCE PROJECT NO.	23-2034
DESIGNED BY:	JZ/RL
CHECKED BY:	LPCE
ISSUE DATE:	2023/06/08
WORKING DATE:	2023/06/08
SHEET NUMBER	

**T3.00**

Login Name: jzamora  
 Plot Date: June 09, 2023 - 4:02 pm  
 Project Files: 2023 LP Project Files\23-2034-SCUSD\_SCSUD\_Keith Kenny MS Intercom-Clock\_T3.00\_One-Lines.dwg  
 XREFS: XBoard

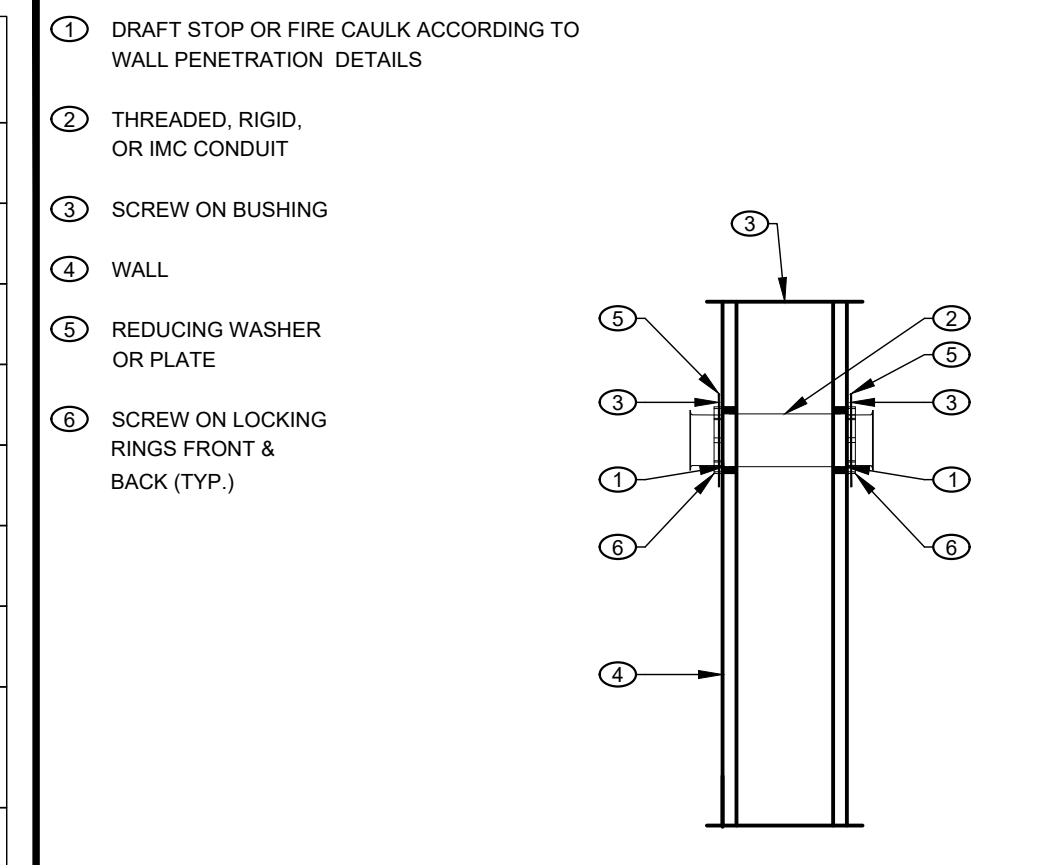


**J-HOOK PATHWAY ABOVE CEILING** SCALE: N/A 1

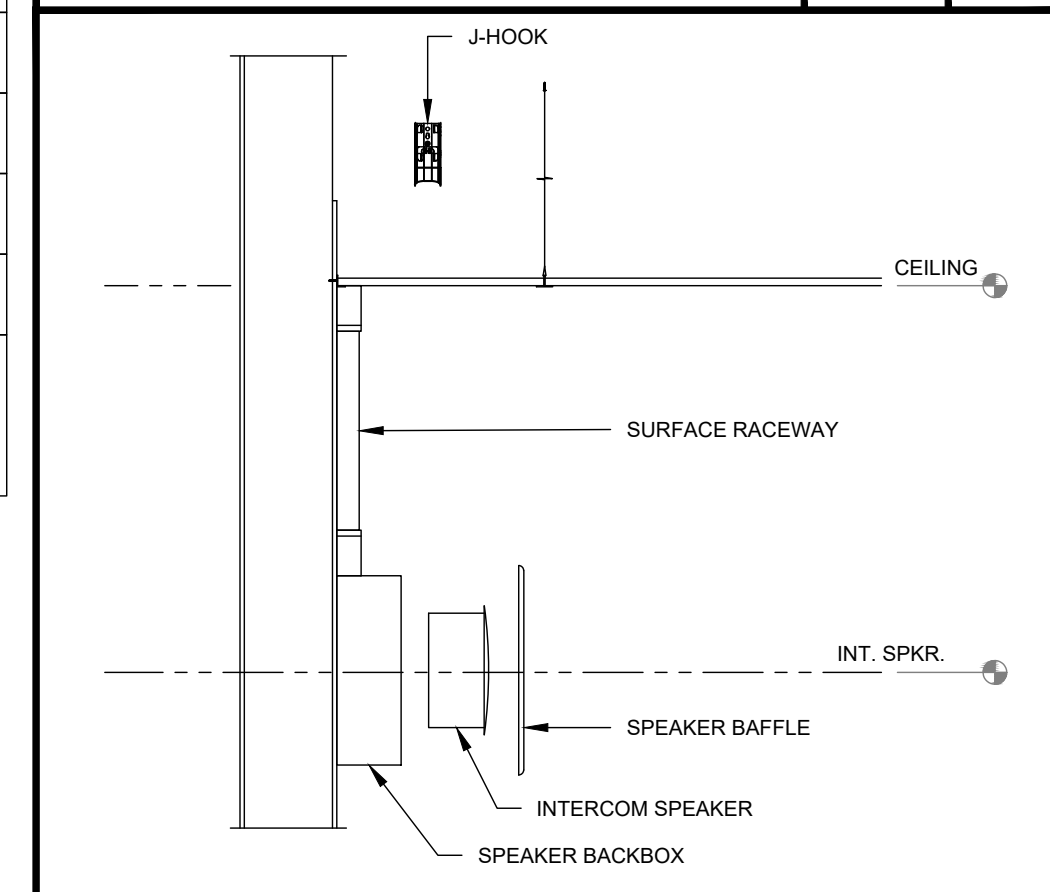


**J-HOOK WALL MOUNTED** SCALE: N/A 2

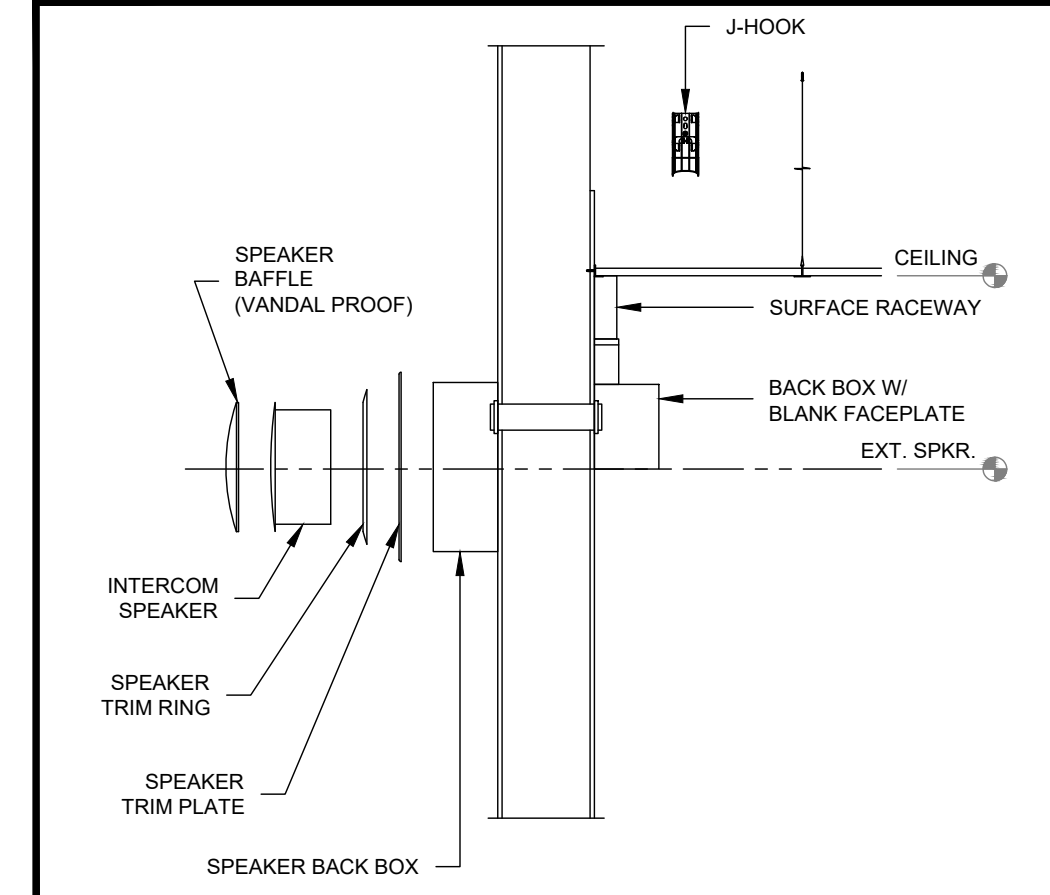
WIREMOLD SURFACE RACEWAY		
SYMBOL	DESCRIPTION	WM2300 PART NUMBER
①	WIREMOLD WM5500	N/A
②	WIREMOLD WM2300	2300
③	ENTRANCE END FITTING	2310A
④	FULL CAPACITY TEE (FIBER READY)	N/A
⑤	FULL CAPACITY FLAT ELBOW 90°	2311DFO
⑥	TEE	2315
⑦	DEVICE BRACKET W/ DUAL RJ FACEPLATE, DUPLEX FACEPLATE OR BLACK FACEPLATE AS NEEDED	5474 / 5574
⑧	TRANSITION FITTING FOR WM2300	2348
⑨	WALL MOUNTED PULL BOX SIZE AS NOTED PER PLAN	2300
⑩	DEVICE BOX	2348
⑪	END CAP	2310B
⑫	INTERNAL ELBOW	2317DFO
⑬	EXTERNAL ELBOW	2318DFO
⑭	BASE SEAM COVER	2306
⑮	WIRE CLIP	2300WC (INSTALL CLIPS AT 48\"/>



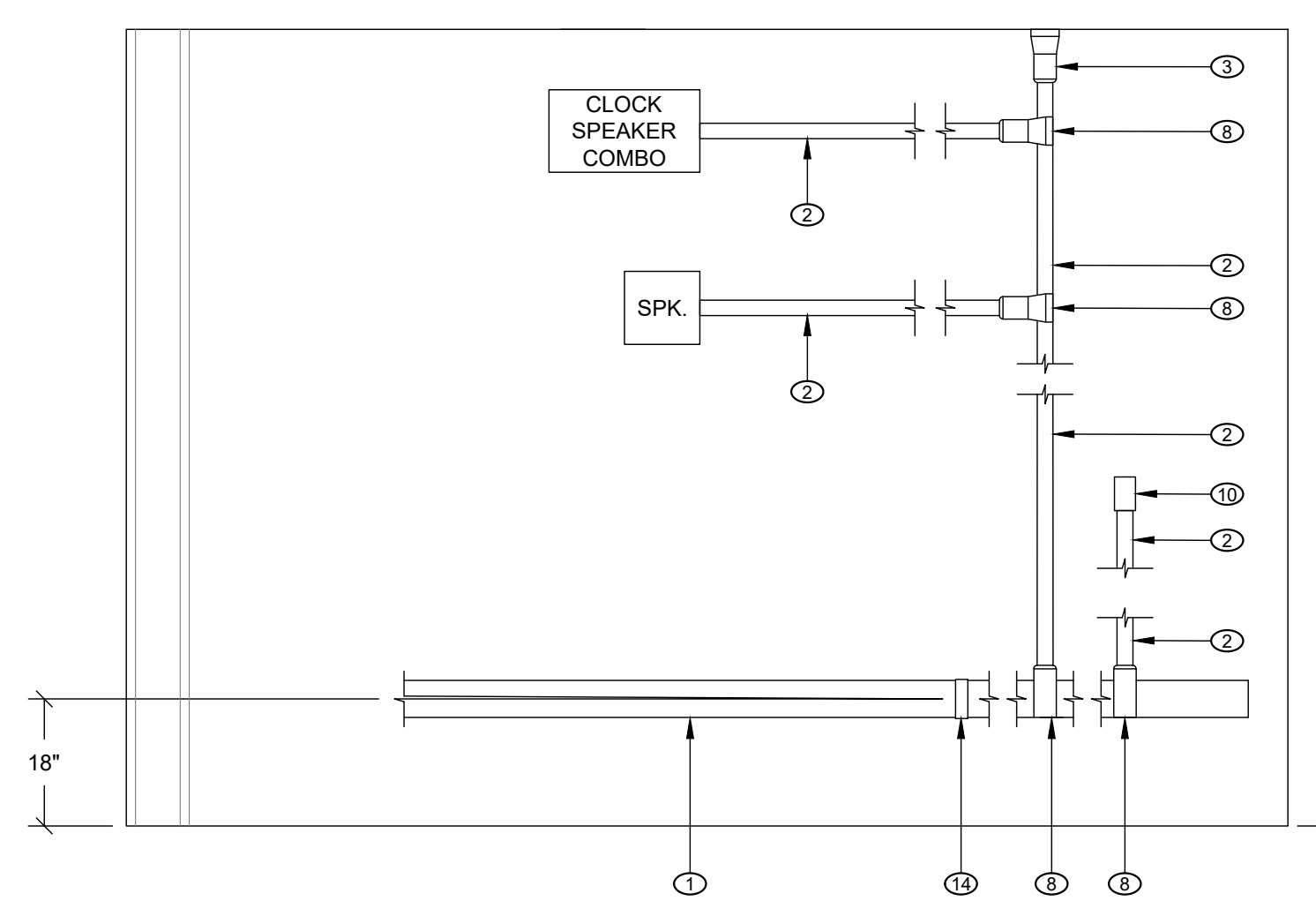
**CONDUIT SLEEVE PENETRATION** SCALE: N/A 3



**WALL MOUNT INTERIOR INTERCOM SPEAKER** SCALE: N/A 4



**WALL MOUNT EXTERIOR INTERCOM SPEAKER** SCALE: N/A 5

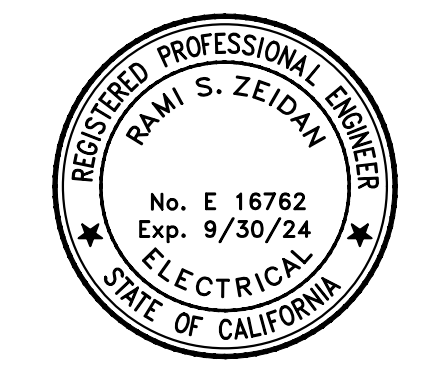


**SURFACE RACEWAY COMPONENTS AND ACCESSORIES** SCALE: N/A 6

AGENCY APPROVAL STAMP

MEP & FS / Sustainability / CxA  
 1209 Pleasant Grove Blvd.  
 Roseville, CA 95678  
 Ph: (916) 771-0778  
 www.lpenginers.com  
 Job #: 23-2034

PROFESSIONAL STAMP



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**SACRAMENTO CITY UNIFIED SCHOOL DISTRICT**  
 5735 47TH AVENUE,  
 SACRAMENTO CA. 95824

PROJECT

**FATHER KEITH KENNY MIDDLE SCHOOL**  
 3525 MARTIN LUTHER KING JR. BLVD.,  
 SACRAMENTO CA. 95817

**SITE-WIDE INTERCOM AND CLOCK MODERNIZATION**

SHEET TITLE

**TECHNOLOGY DETAILS**

LPCE PROJECT NO.	23-2034
DESIGNED BY:	JZ/RL
CHECKED BY:	LPCE
ISSUE DATE:	2023/06/08
WORKING DATE:	2023/06/08
SHEET NUMBER	

**T4.00**

Login Name: jzamora  
 Print Date: June 09, 2023 - 4:02 pm  
 Project File: 2023 LP Project/23-2034-SCUSD\_Keith Kenny MS Clock-Intercom/1P CAD/23-2034-SCUSD\_Keith Kenny MS Intercom-Clock\_T4\_XX\_Installation Details.dwg  
 XREFS: XBoard

