

ABBREVIATIONS:	
A	AMPERE
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANN	ANNUNCIATOR
AP	ACCESS POINT
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BICSI	BUILDING INDUSTRY CONSTRUCTION SERVICE INTERNATIONAL
BLDG	BUILDING
C	CONDUIT
CAB	CABINET
CAT	CATEGORY
CATV	CABLE TELEVISION
CD	CANDELA
CFCI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CL	CENTER LINE
CO	CARBON MONOXIDE
DN	DOWN
EMT	EXISTING ELECTRICAL METALLIC TUBING
EOL	END OF LINE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FTC	FIRE TERMINAL CABINET
GRC	GALVANIZED RIGID CONDUIT
G OR GB	GROUND BOX
IACP	INTRUSION ALARM CONTROL PANEL
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT
J OR JB	JUNCTION BOX
MEP	MECHANICAL / ELECTRICAL / PLUMBING
MDF	MAIN DISTRIBUTION FRAME
MPOE	MINIMUM POINT OF ENTRY
(N)	NEW
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NTS	NOT TO SCALE
N/A	NOT APPLICABLE
OFE	OWNER FURNISHED EQUIPMENT
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED/OWNER INSTALLED
OSP	OUTSIDE PLANT
PVC	POLYVINYL CHLORIDE
RCDD	REGISTERED COMMUNICATION DISTRIBUTION DESIGNER
RCWY	RACEWAY
RM	ROOM
SR	SURFACE RACEWAY
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
W	WATT
WP	WEATHERPROOF

TECHNOLOGY SYMBOL LEGEND: ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)				
SYMBOL	DESCRIPTION	MANUFACTURER	PART NUMBER	NOTES / DETAIL REFERENCES
	(N) SURFACE MOUNTED CONDUIT	COMMERCIAL GENERIC	N/A	GREY = EXISTING
	(E) UNDERGROUND CONDUIT	N/A	N/A	N/A
	(N) MEDIUM CAPACITY SURFACE MOUNTED CABLE RACEWAY	WIREMOLD	WM2300	GREY = EXISTING
	(N) HIGH CAPACITY SURFACE MOUNTED CABLE RACEWAY	WIREMOLD	WM5400	GREY = EXISTING
	(N) HIGH CAPACITY SURFACE MOUNTED CABLE RACEWAY	WIREMOLD	WM5500	GREY = EXISTING
	(N) CONDUIT STUB	COMMERCIAL GENERIC	N/A	GREY = EXISTING
	(E) CONDUIT RISER	N/A	N/A	N/A
	(E) DATA RACK	EXISTING	EXISTING	N/A
	(E) DATA RACK	EXISTING	EXISTING	N/A
	(E) GROUND BOX	N/A	N/A	N/A
	(N) JUNCTION BOX	COMMERCIAL GENERIC	N/A	GREY = EXISTING
	(E) MINIMAL POINT OF ENTRY	EXISTING	EXISTING	N/A
	(E) INTRUSION KEYPAD	EXISTING	EXISTING	N/A
	(N) CAT6A DATA DROP LOCATION (QTY = 1) - IP CLOCK/SPEAKER/IP MODULE COMBO BOX	RAULAND	SEE SHEET T702	N/A
	(N) CAT6A DATA DROP LOCATION - WALL MOUNTED SPEAKER/IP MODULE	RAULAND	SEE SHEET T702	N/A
	(N) CAT6A DATA DROP LOCATION - EXTERIOR INTERCOM SPEAKER/IP MODULE	RAULAND & LOWELL	SEE SHEET T702	N/A
	(N) CAT6A DATA DROP LOCATION	SEE 27 10 00	SEE 27 10 00	QTY. AS PER PLAN
	(N) CAT6A DATA DROP LOCATION - WIRELESS ACCESS POINT (T-BAR)	SEE 27 10 00	SEE 27 10 00	N/A
	(N) CAT6A DATA DROP LOCATION - EXTERIOR WIRELESS ACCESS POINT	SEE 27 10 00	SEE 27 10 00	N/A

PRE-CON MEETING REQUIREMENTS:
1. PRIOR TO BEGINNING ANY SITE WORK, INCLUDING DEMO, AN ON-SITE PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE LOW VOLTAGE DESIGNER. ANY SITE WORK COMMENCED PRIOR TO THIS MEETING SHALL BE AT THE CONTRACTOR'S SOLE RISK.

JOB SPECIFIC STANDARDS FOR LOW VOLTAGE:
SEE SPECIFICATIONS DIVISION 27 AND 28 FOR COMPLETE REQUIREMENTS.
1. CONDUIT BODIES, CONDULETS, PULLING ELBOWS, AND/OR "LB" FITTINGS ARE PROHIBITED IN ANY PATHWAY CONTAINING DATA CABLING (COPPER OR FIBER).
2. SINGLE HOLE CONDUIT STRAPS ARE PROHIBITED.
3. ALL WIRE AND CABLE PASSING THROUGH METALWORK SHALL BE SLEEVED WITH AN APPROPRIATE GROMMET OR BUSHING.

SYSTEM PROGRAMMING AND COMMISSIONING REQUIREMENTS:
1. THE DISTRICT WILL PERFORM ALL DATA NETWORK (CISCO) SWITCH PROGRAMMING. ALL OTHER PROGRAMMING/COMMISSIONING IS THE RESPONSIBILITY OF THE CONTRACTOR.
2. TO FACILITATE DATA NETWORK SWITCH PROGRAMMING BY THE DISTRICT, THE CONTRACTOR SHALL PROVIDE, NO LATER THAN 14 CALENDAR DAYS PRIOR TO CUTOVER, AN INVENTORY OF SWITCH PORTS THAT WILL BE UTILIZED BY THE TELECENTER SYSTEM. THIS SHALL INCLUDE ALL DATA DROPS, NEW AND EXISTING.

SCOPE OF WORK:
1. 1. THE CONTRACTOR SHALL PROVIDE A (N) RAULAND TELECENTER U INTERCOM SYSTEM IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL REWORK THE (E) IDF AND MDF LOCATIONS, INCLUDING INSTALLATION OF (N) OWNER-FURNISHED DATA NETWORK SWITCHES, AS NOTED.
3. THE CONTRACTOR SHALL PROVIDE AND PERFORM OTHER DATA NETWORK INSTALLATION AND REWORK AS NOTED.
4. SYSTEMS ON THIS PROJECT REQUIRE CERTIFIED INSTALLERS. CONTRACTOR SHALL COMPLY WITH ALL CERTIFICATION REQUIREMENTS AS A CONDITION OF BID.
5. ALL EQUIPMENT SHALL BE NEW AND CONTRACTOR FURNISHED, UNO.
6. AFTER CUTOVER TO NEW SYSTEMS, THE CONTRACTOR SHALL REMOVE OLD OR ABANDONED DATA NETWORK, AUDIOVISUAL, ANALOG TELEPHONE, ANALOG INTERCOM, ANALOG CLOCK, AND COAX CABLING AND DEVICES AS NOTED.
7. THE PROJECT WILL REQUIRE SWING AND/OR GRAVEYARD AND/OR WEEKEND AND/OR HOLIDAY WORK SCHEDULES IN ORDER TO MEET THE PROJECT REQUIREMENTS AND MINIMIZE DISRUPTION TO THE ACTIVE USE OF THE SITE.
8. THE CONTRACTOR SHALL CAREFULLY COORDINATE CUTOVERS AND ACTIVATION/COMMISSIONING OF NEW SYSTEMS WITH THE DISTRICT REPRESENTATIVE.
9. THE CLOCK/INTERCOM SYSTEM AND ALL DATA NETWORK SYSTEMS SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES THAT SCHOOL IS IN SESSION.

CONTRACTOR FURNISHED DOCUMENTS:
(SHOP DRAWINGS / PRODUCT SUBMITTALS / QUALIFICATIONS)
1. ORDERING AND INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL THE FOLLOWING:
1.1. CONTRACTOR FURNISHED SHOP DRAWINGS ARE RECEIVED AND APPROVED BY THE DESIGNER.
1.2. PRODUCT SUBMITTAL DOCUMENTS ARE RECEIVED AND APPROVED BY THE DESIGNER.
1.3. APPLICABLE QUALIFICATION DOCUMENTATION ARE RECEIVED AND APPROVED BY THE DESIGNER.
2. ANY DESIGN AND/OR INSTALLATION DISCREPANCIES/CHANGE ORDER REQUESTS ARE TO BE ADDRESSED AT TIME OF SHOP DRAWING CREATION. CHANGE ORDERS AFTER APPROVED SHOP DRAWINGS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
3. ALTERNATIVE PRODUCTS ARE TO SUBMITTED WITH A FORMAL SUBSTITUTION REQUEST AND THE CONTRACTOR IS RESPONSIBLE FOR DEMONSTRATING PRODUCT FULL EQUIVALENCY.
4. IT SHALL BE UNDERSTOOD THAT THE DRAWINGS, DETAILS, AND ONE-LINES PROVIDED WITH THE DESIGN PACKAGE ARE DIAGRAMMATIC. INFORMATION PRESENTED IN DESIGN DRAWINGS ARE AS ACCURATE AS POSSIBLE, BUT ACCURACY IS NOT GUARANTEED AND FIELD VERIFICATION OF ALL DIMENSIONS, ROUTING, ETC., BY THE CONTRACTOR IS REQUIRED.
5. DRAWINGS AND SPECIFICATIONS ARE PROVIDED TO SHOW THE INTENT OF THE DESIGN TO ASSIST THE CONTRACTOR IN SUBMITTING AN ACCURATE BID. CONTRACTOR IS DIRECTED TO MAKE FIELD SURVEYS AS PART OF THEIR WORK PRIOR TO SUBMITTING SYSTEM LAYOUT DRAWINGS (SHOP DRAWINGS). THE CONTRACTOR SHALL MAKE ALLOWANCE IN THE PROPOSAL TO COMPLY WITH THE INTENT OF THE DESIGN.
6. IN CASE OF DOUBT OF WORK INTENDED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST INSTRUCTIONS FROM THE DESIGNER OR OWNER PRIOR TO BID.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE, OPERABLE, AND FULLY FUNCTIONING SYSTEM.

TECHNOLOGY GENERAL PROJECT NOTES:
1. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, THE CONTRACTOR SHALL PROVIDE A SATISFACTORY TEST OF THE ENTIRE SYSTEMS IN THE PRESENCE OF THE ARCHITECT/DESIGNER, INSPECTOR, AND THE OWNER.
2. A STAMPED SET OF APPROVED SYSTEM DESIGN DOCUMENTS, AND CONTRACTOR FURNISHED SHOP DRAWINGS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. THE CONTRACTOR SHALL INCORPORATE ANY AND ALL REVISIONS TO DRAWINGS SETS AS REQUIRED. ANY DEVIATION FROM APPROVED DESIGN DOCUMENTS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE ARCHITECT/DESIGNER AND THE OWNER PRIOR TO INSTALLATION.
3. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGNER PRIOR TO INSTALLATION.
4. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH THROUGH PENETRATION FIRST STOP SYSTEMS WITH A "T" RATING EQUAL TO THE ASSEMBLY PENETRATED. SEE DETAILS ON SHEET T801 FOR MORE INFORMATION.
5. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH DEVICE. DO NOT SPlice THE WIRE. THERE MUST BE AT LEAST 6" OF LEAD WIRE FROM THE BOX TO THE DEVICE.
6. ALL CLOCK, BELL, AND INTERCOM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY, OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CABLES ARE ONLY PERMITTED IF INDICATED ON DESIGN DOCUMENTS AS "EXPOSED".
7. LOW VOLTAGE PANELS, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURER'S SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT FOR 20 lbs., WITHOUT SPECIAL MOUNTING DETAILS.
8. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/DESIGNER AT A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO FINAL INSPECTION FOR FINAL PUNCH ALL ITEMS ON PUNCH LIST MUST BE COMPLETE FOR JOB TO FINAL.
9. PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE ALL PROJECT AS-BUILT DRAWINGS AND MANUALS PER SPECIFICATIONS.
10. THE CONTRACTOR SHALL ALSO PROVIDE A TYPED RECORD OF COMPLETION. A FINAL WILL NOT BE GRANTED UNTIL THE ABOVE IS APPROVED BY THE OWNER.
11. THE TERM "PROVIDE" SHALL MEAN TO FURNISH, INSTALL AND MAKE FULLY OPERATIONAL.

PROJECT CODES AND STANDARDS:
PARTIAL LIST OF APPLICABLE CODES AND STANDARDS EFFECTIVE : JANUARY 1, 2023:
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), CCR, TITLE 24, PART 1
2022 CALIFORNIA BUILDING CODE (CBC), CCR, TITLE 24, PART 2 (2018 INTERNATIONAL BUILDING CODE WITH CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), CCR, TITLE 24, PART 3 (2017 NATIONAL ELECTRICAL CODE WITH CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), CCR, TITLE 24, PART 4 (2018 UNIFORM MECHANICAL CODE, WITH CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6
2022 CALIFORNIA FIRE CODE (CFC), CCR, TITLE 24, PART 9 (2018 INTERNATIONAL FIRE CODE WITH CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CCR, TITLE 24, PART 11
2022 CALIFORNIA REFERENCED STANDARDS CODE, CCR, TITLE 24, PART 12
2022 NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE, NATIONAL FIRE PROTECTION ASSOCIATION

ANCHORAGE AND BRACING NOTES:
APPLICABLE CODE: 2019 CBC
REVISED: 02/14/2020
MEP COMPONENT ANCHORAGE NOTE:
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE USA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 THRU 30:
1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVEABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVEABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCT/WORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.
A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENTS.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL. IN GENERAL, RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:
PIPING, DUCTWORK, AND ELECTRICAL SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTIONS 13.3, 13.6, 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2019 CBC SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTIONS SYSTEM ARE A NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPES (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):
MP MD PP E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS
MP MD PP E OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #)

SHEET INDEX:
SHEET DESCRIPTION
T000 TECHNOLOGY COVER SHEET
T010 TECHNOLOGY SITE PLAN - DEMO
T100 TECHNOLOGY SITE PLAN - NEW
T101 TECHNOLOGY SITE PLAN - EXTERIOR SPEAKER COVERAGE
T200 TECHNOLOGY FLOOR PLAN - MDF 1.00
T201 TECHNOLOGY FLOOR PLAN - IDF 1.01
T202 TECHNOLOGY FLOOR PLAN - IDF 1.02
T203 TECHNOLOGY FLOOR PLAN - IDF 1.03
T204 TECHNOLOGY FLOOR PLAN - IDF 1.04
T400 TECHNOLOGY RACK ELEVATIONS
T401 TECHNOLOGY RACK ELEVATIONS
T402 TECHNOLOGY SINGLE LINE DIAGRAMS
T800 TECHNOLOGY DETAILS
T801 TECHNOLOGY FIRE DETAILS



KMM SERVICES, INC
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SHEET REVISIONS
DELTA DESCRIPTION DATE

SITE KEY PLAN

PROJECT

SACRAMENTO CITY

UNIFIED SCHOOL DISTRICT

WOODBINE ES

TELECENTER UPGRADE

2500 52ND AVENUE
SACRAMENTO, CA 95822

SHEET TITLE

TECHNOLOGY

COVER SHEET

DRAWING STATUS

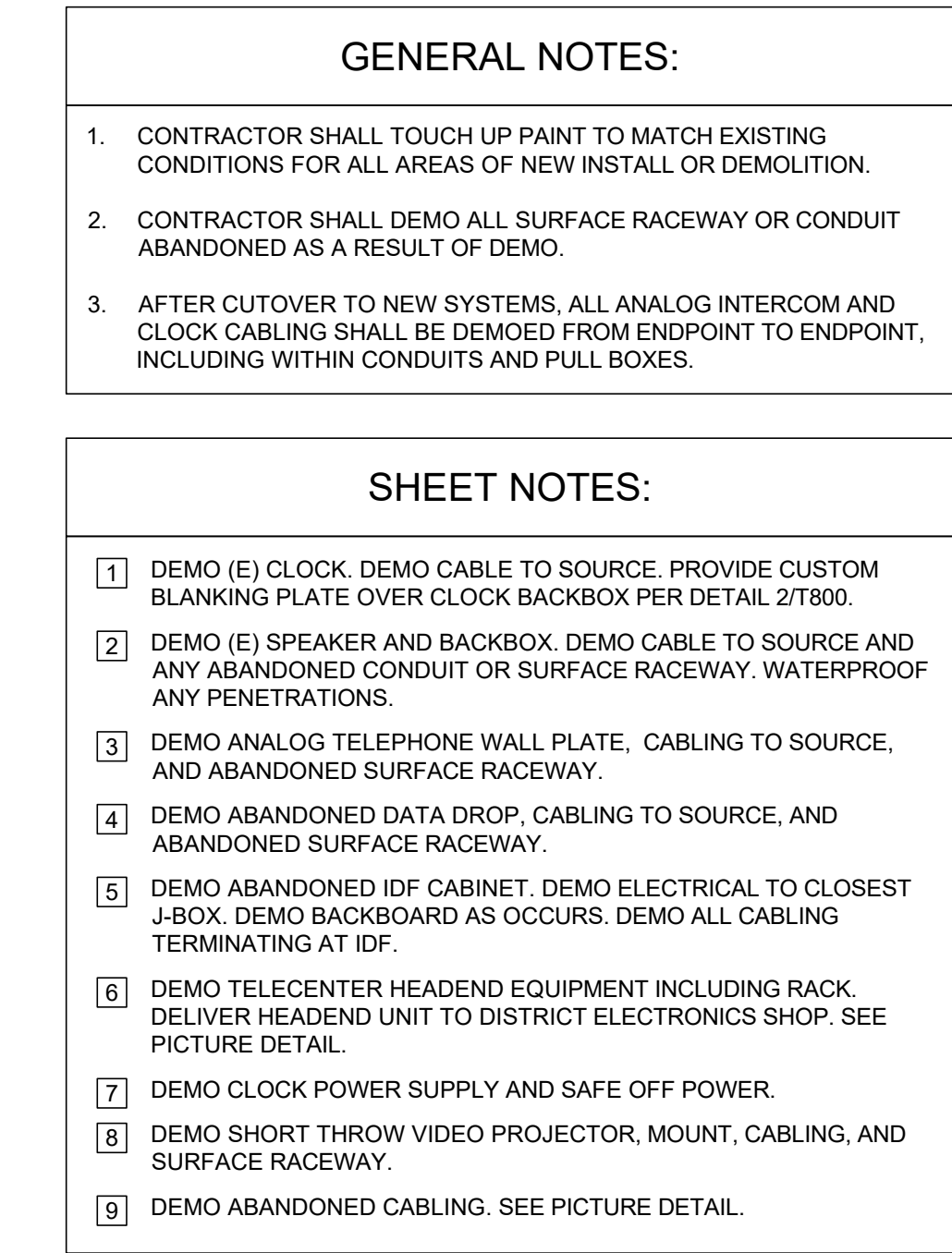
CONSTRUCTION DRAWINGS

PROJECT NO:	0390-411
BID PACKAGE:	
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-08-26
WORKING DATE:	2025-08-26

REVISION

SHEET

T000



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REVISION

SHEET **T010**

TECHNOLOGY SITE PLAN - DEMO

SCALE: 1"=20'





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3.	CONTRACTOR SHALL TOUCH UP PAINT TO MATCH EXISTING CONDITIONS FOR ALL AREAS OF NEW INSTALL OR DEMOLITION.

CONDUIT QTY. AND SIZE:	
①	(E) 1 EA. 2" CONDUITS.
②	(E) 2 EA. 2" CONDUITS.
③	(E) 3 EA. 2" CONDUITS.
④	(E) 4 EA. 2" CONDUITS.
⑤	(E) 5 EA. 2" CONDUITS.



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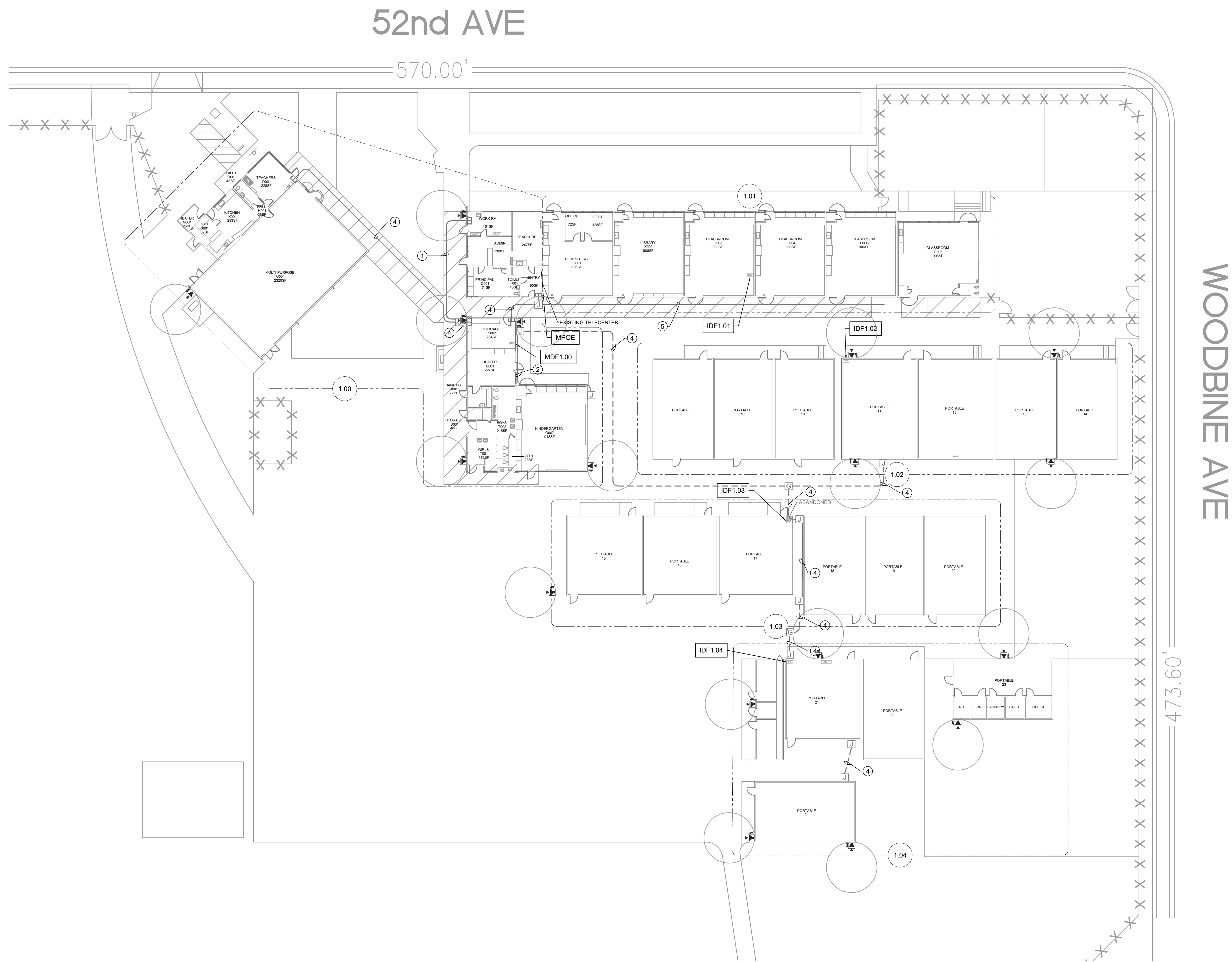
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DELTA	DESCRIPTION	DATE

SITE KEY PLAN

PROJECT
SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT
WOODBINE ES
TELECENTER UPGRADE
2500 52ND AVENUE
SACRAMENTO, CA 95822

SHEET TITLE
TECHNOLOGY
SITE PLAN -
NEW

DRAWING STATUS	
CONSTRUCTION DRAWINGS	
PROJECT NO:	0390-411
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SHEET	T100



TECHNOLOGY SITE PLAN - EXTERIOR SPEAKER COVERAGE



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SHEET REVISIONS		
DELTA	DESCRIPTION	DATE

SITE KEY PLAN		

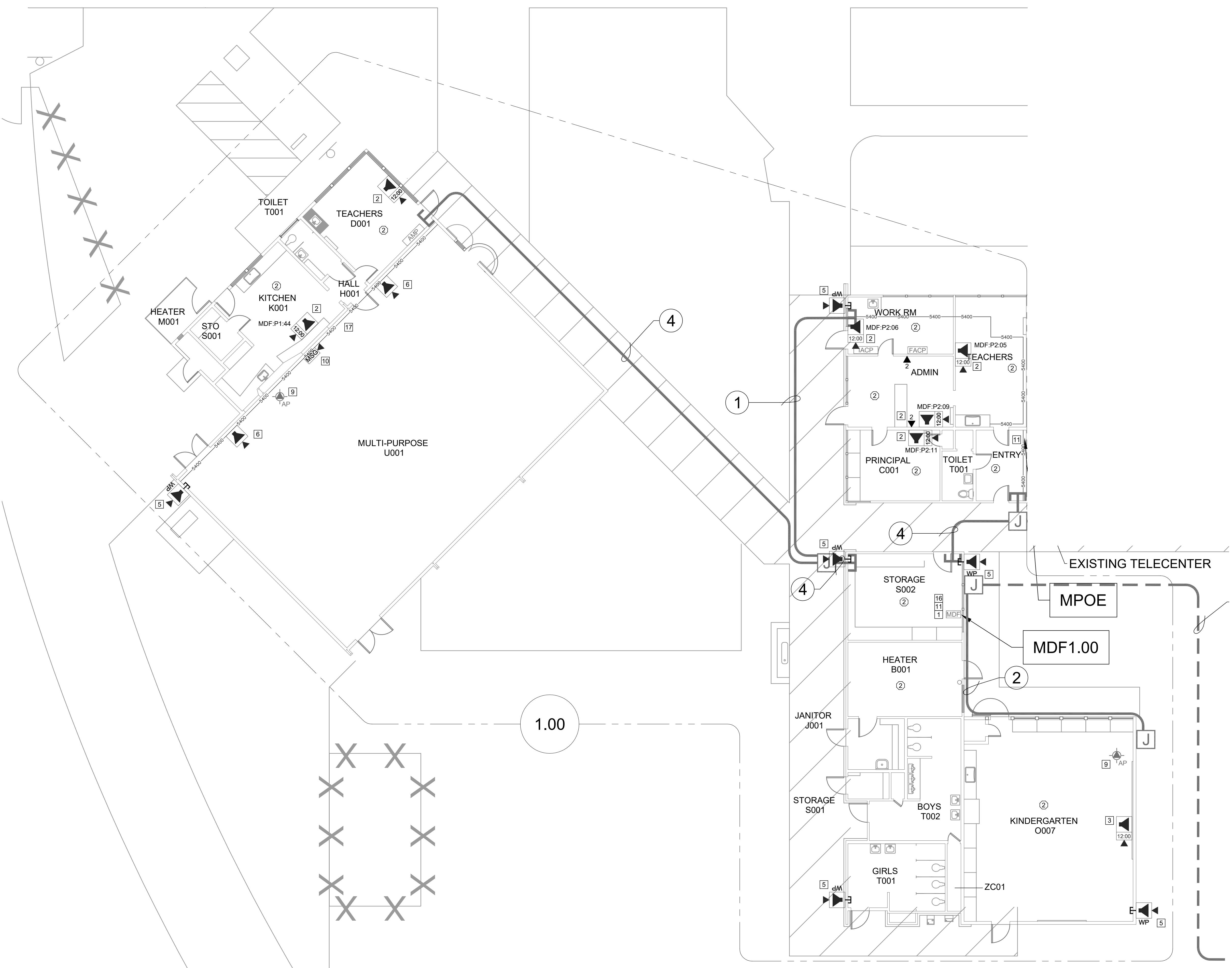
PROJECT
SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT
WOODBINE ES
TELECENTER UPGRADE
2500 52ND AVENUE
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SHEET TITLE
TECHNOLOGY
SITE PLAN -
EXTERIOR SPEAKER
COVERAGE

DRAWING STATUS
CONSTRUCTION DRAWINGS

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REVISION
SHEET
T101

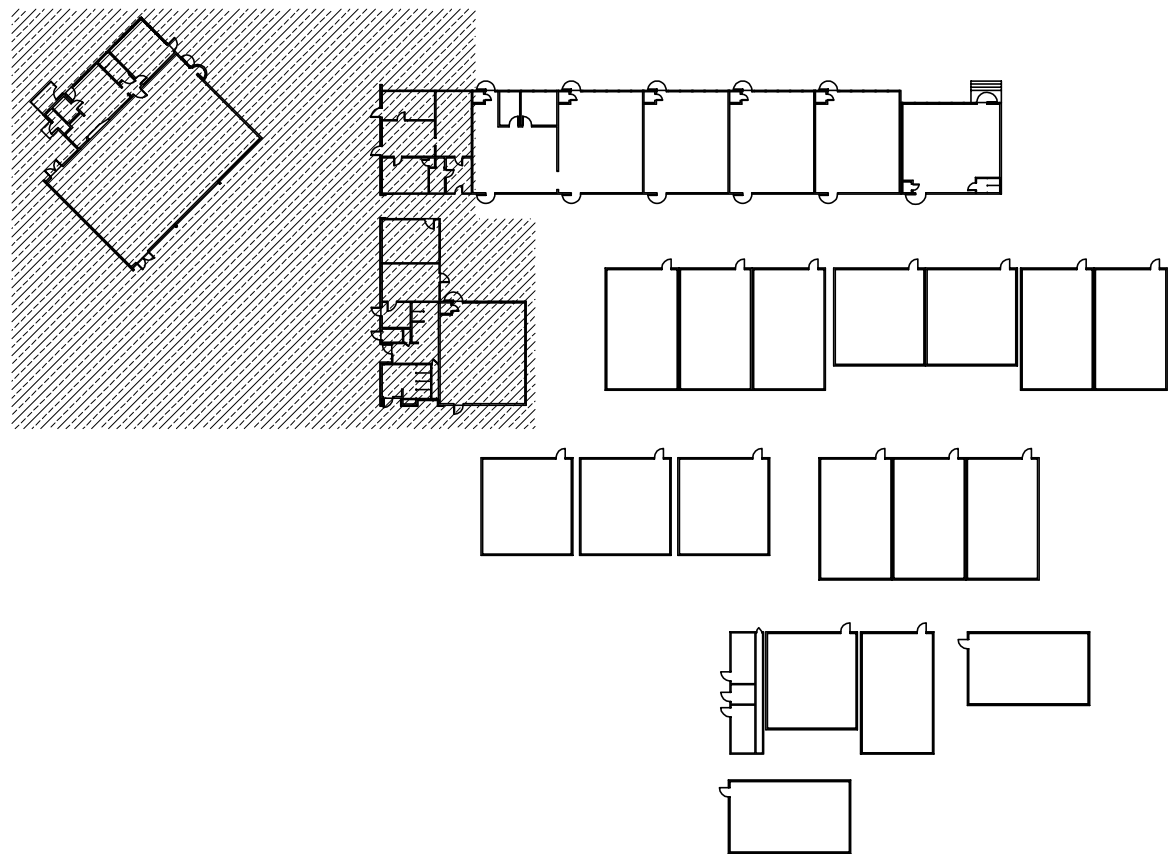


CEILING CONDITION CHART:
① DROP IN CEILING TILES.
② HARD LID CEILING.

GENERAL NOTES:
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3. CONTRACTOR SHALL TOUCH UP PAINT TO MATCH EXISTING CONDITIONS FOR ALL AREAS OF NEW INSTALL OR DEMOLITION.

SHEET NOTES:
① REWORK MDF/IDF PER RACK ELEVATION. SEE T400/T401.
② REMOVE (E) SURFACE BOX WITH PREWIRED DATA DROP. PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. REWORK (E) DATA DROP INTO (N) COMBO BOX.
③ AT (E) SURFACE BOX WITH PREWIRED DATA DROP, REMOVE KEYSTONE FROM PLATE AND PROVIDE BLANK COVER. PROVIDE SHORT SECTION OF WM2300 BETWEEN SURFACE BOX AND (N) COMBO BOX. PROVIDE CAT6A PATCH CABLE BETWEEN KEYSTONE LOCATION AND COMBO BOX. PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK.
④ PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. PROVIDE (N) 1 EA. CAT6A DATA DROP. PROVIDE WM2300 TO NEAREST DATA RACEWAY OR J-BOX.
⑤ PROVIDE (N) EXTERIOR SPEAKER WITH (N) EXTERIOR BACKBOX. PROVIDE (N) INTERIOR ENCLOSURE WITH (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP AT INTERIOR ENCLOSURE. REMOVE (E) SPEAKER, AS OCCURS.
⑥ PROVIDE (N) BACKBOX WITH (N) SPEAKER AND (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP.
⑦ PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. LOCATE (E) DATA DROP ABOVE T-BAR. FISH THROUGH WALL TO (N) CUT-IN BOX BEHIND COMBO BACKBOX.
⑧ REWORK (E) DATA DROP AT EXTERIOR AP AND PROVIDE REQUIRED COMPONENTS PER DETAIL 12/T801, 13/T801.
⑨ PROVIDE (N) RIGHT ANGLE WALL MOUNT AT (E) AP, OBERON PIN 1006-COAP9136.
⑩ PROVIDE (N) LARGE MESSAGE BOARD WITH PROTECTIVE COVER. REWORK (E) DATA DROP INTO (N) METAL WIREMOLD BOX (PIN V5741). METAL BOX REQUIRED HERE FOR ADEQUATE STABILITY OF LARGE MESSAGE BOARD.
⑪ PROVIDE (N) 2 EA. 4-PAIR COPPER FEEDERS BETWEEN MPOE AND MDF RACK. TERMINATE ON (E) 66-BLOCK AT MPOE AND ON INDIVIDUAL KEYSTONES (CENTER PAIR) AT MDF RACK.
⑫ PROVIDE (N) 2 EA. CAT6A DATA DROP FOR WIRELESS AP. RELOCATE (E) WIRELESS AP FROM ADJACENT WALL DEMO (E) DATA CABLES AT OLD AP LOCATION. UTILIZE (E) PATCH PANEL LOCATIONS FOR NEW CABLING.
⑬ REPLACE MISSING WMS400 ENTRANCE END FITTING, THIS LOCATION.
⑭ RELOCATE (E) CLOCK DATA DROP FROM OPPOSITE WALL.
⑮ INSTALL (N) OWNER-FURNISHED WIRELESS AP AT (E) AP DATA DROP LOCATION. REMOVE (E) WIRELESS AP, AS OCCURS.
⑯ FULLY RECABLE (5) EA. CAT6A DATA DROPS SERVING CCTV CAMERAS FROM THIS LOCATION (MAX 300 FT.). VIA (E) PATHWAY. EXACT CAMERA LOCATIONS TO BE DETERMINED IN FIELD.
⑰ PROVIDE (N) WMS400 ALONG WALL. INCORPORATE (E) LOW VOLT CABLING INTO (N) RACEWAY WHERE POSSIBLE.

KEY PLAN



TECHNOLOGY FLOOR PLAN NEW - MDF1.00

SCALE: 1/8"=1'

0481216



KMM SERVICES, INC
TECHNOLOGY & FIRE LIFE SAFETY

5433 El Camino Ave. Suite 5
Carmichael, CA 95608
Office: (916) 359-4000 www.kmm-services.com

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IF DRAWING IS NOT 30"x42" IT IS A REDUCED PRINT

SHEET REVISIONS		
<u>DELTA</u>	<u>DESCRIPTION</u>	<u>DATE</u>

SITE KEY PLAN

PROJECT
SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT
WOODBINE ES
TELECENTER UPGRADE
2500 52ND AVENUE
SACRAMENTO, CA 95822

SHEET TITLE
TECHNOLOGY
FLOOR PLAN NEW
- MDF1.00

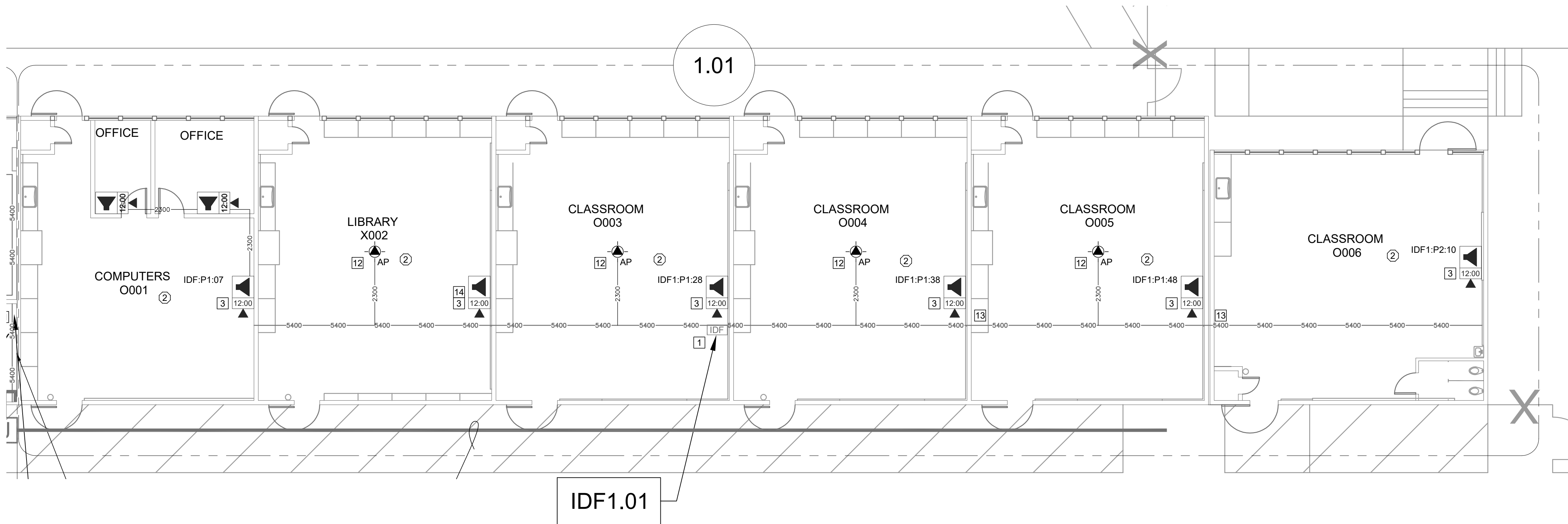
DRAWING STATUS
CONSTRUCTION DRAWINGS

PROJECT NO:	0390-411
BID PACKAGE:	
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-08-26
WORKING DATE:	2025-08-26

REVISION

SHEET

T200



CEILING CONDITION CHART:

- ① DROP IN CEILING TILES.
② HARD LID CEILING.

GENERAL NOTES:

- NO STRUCTURAL BEAMS SHALL BE PENETRATED OR ALTERED.
- ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED, AND CONFIGURED, UNO.
- CONTRACTOR SHALL TOUCH UP PAINT TO MATCH EXISTING CONDITIONS FOR ALL AREAS OF NEW INSTALL OR DEMOLITION.

SHEET NOTES:

- REWORK MDF/IDF PER RACK ELEVATION. SEE T400/T401.
- REMOVE (E) SURFACE BOX WITH PREWIRED DATA DROP. PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. REWORK (E) DATA DROP INTO (N) COMBO BOX.
- AT (E) SURFACE BOX WITH PREWIRED DATA DROP. REMOVE KEYSTONE FROM PLATE AND PROVIDE BLANK COVER. PROVIDE SHORT SECTION OF WM2300 BETWEEN SURFACE BOX AND (N) COMBO BOX. PROVIDE CAT6A PATCH CABLE BETWEEN KEYSTONE LOCATION AND COMBO BOX. PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK.
- PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. PROVIDE (N) 1 EA. CAT6A DATA DROP. PROVIDE WM2300 TO NEAREST DATA RACEWAY OR J-BOX.
- PROVIDE (N) EXTERIOR SPEAKER WITH (N) EXTERIOR BACKBOX. PROVIDE (N) INTERIOR ENCLOSURE WITH (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP AT INTERIOR ENCLOSURE. REMOVE (E) SPEAKER, AS OCCURS.
- PROVIDE (N) BACKBOX WITH (N) SPEAKER AND (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP.
- PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. LOCATE (E) DATA DROP ABOVE T-BAR. FISH THROUGH WALL TO (N) CUT-IN BOX BEHIND COMBO BACKBOX.
- REWORK (E) DATA DROP AT EXTERIOR AP AND PROVIDE REQUIRED COMPONENTS PER DETAIL 12/T801, 13/T801.
- PROVIDE (N) RIGHT ANGLE WALL MOUNT AT (E) AP, OBERON PIN 1006-COAP9136.
- PROVIDE (N) LARGE MESSAGE BOARD WITH PROTECTIVE COVER. REWORK (E) DATA DROP INTO (N) METAL WIREMOLD BOX (PIN V5741). METAL BOX REQUIRED HERE FOR ADEQUATE STABILITY OF LARGE MESSAGE BOARD.
- PROVIDE (N) 2 EA. 4-PAIR COPPER FEEDERS BETWEEN MPOE AND MDF RACK. TERMINATE ON (E) 66-BLOCK AT MPOE AND ON INDIVIDUAL KEYSTONES (CENTER PAIR) AT MDF RACK.
- PROVIDE (N) 2 EA. CAT6A DATA DROP FOR WIRELESS AP. RELOCATE (E) WIRELESS AP FROM ADJACENT WALL. DEMO (E) DATA CABLES AT OLD AP LOCATION. UTILIZE (E) PATCH-PANEL LOCATIONS FOR NEW CABLING.
- REPLACE MISSING WMS400 ENTRANCE END FITTING, THIS LOCATION.
- RELOCATE (E) CLOCK DATA DROP FROM OPPOSITE WALL.
- INSTALL (N) OWNER-FURNISHED WIRELESS AP AT (E) AP DATA DROP LOCATION. REMOVE (E) WIRELESS AP, AS OCCURS.
- FULLY RECABLE (5) EA. CAT6A DATA DROPS SERVING CCTV CAMERAS FROM THIS LOCATION (MAX 300 FT.). VIA (E) PATHWAY. EXACT CAMERA LOCATIONS TO BE DETERMINED IN FIELD.
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SHEET REVISIONS

DELTA	DESCRIPTION	DATE

SITE KEY PLAN

PROJECT
SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT
WOODBINE ES
TELECENTER UPGRADE
2500 52ND AVENUE
SACRAMENTO, CA 95822

SHEET TITLE
TECHNOLOGY
FLOOR PLAN NEW
- IDF1.01

DRAWING STATUS
CONSTRUCTION DRAWINGS

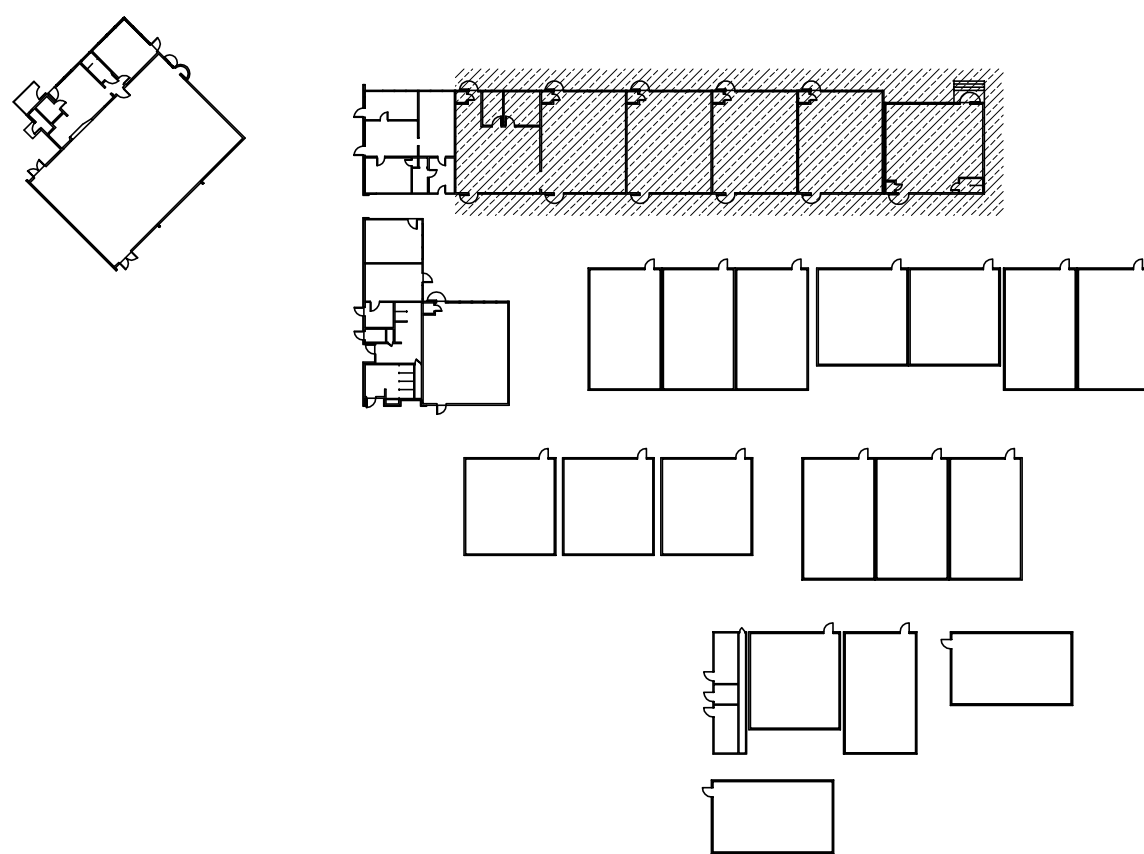
PROJECT NO:	0390-411
BID PACKAGE:	
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-08-26
WORKING DATE:	2025-08-26

REVISION

SHEET

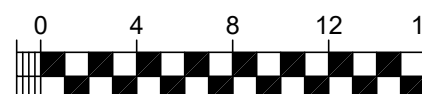
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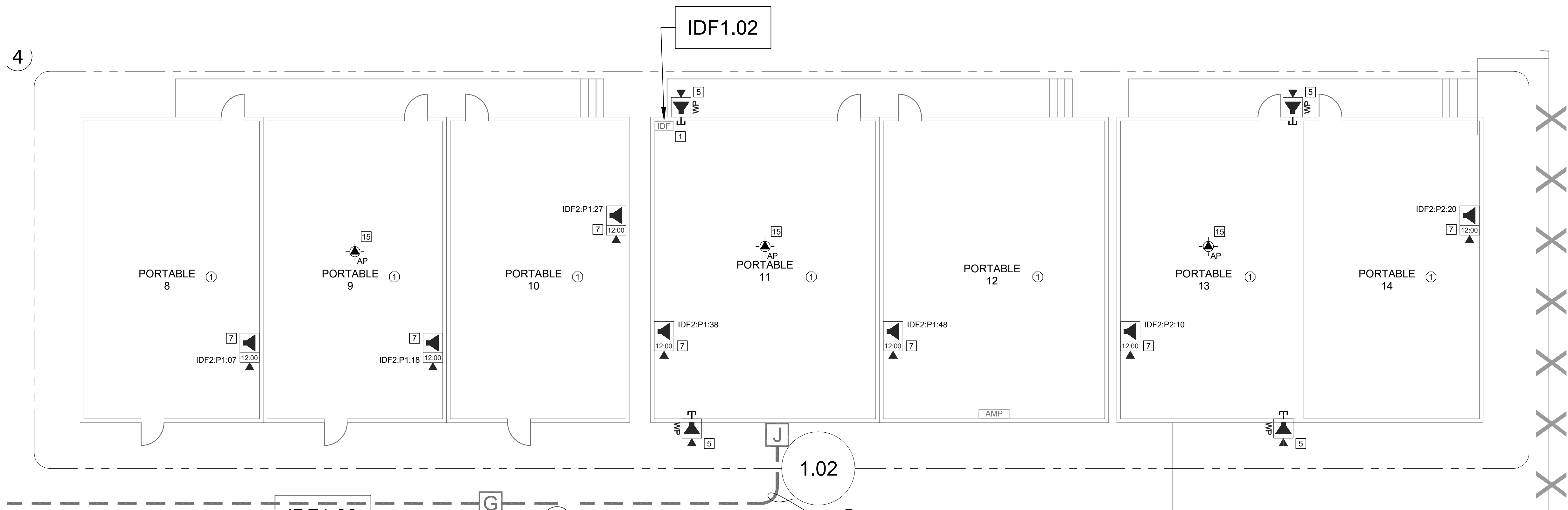
KEY PLAN



TECHNOLOGY FLOOR PLAN NEW - IDF1.01

SCALE: 1/8"=1'



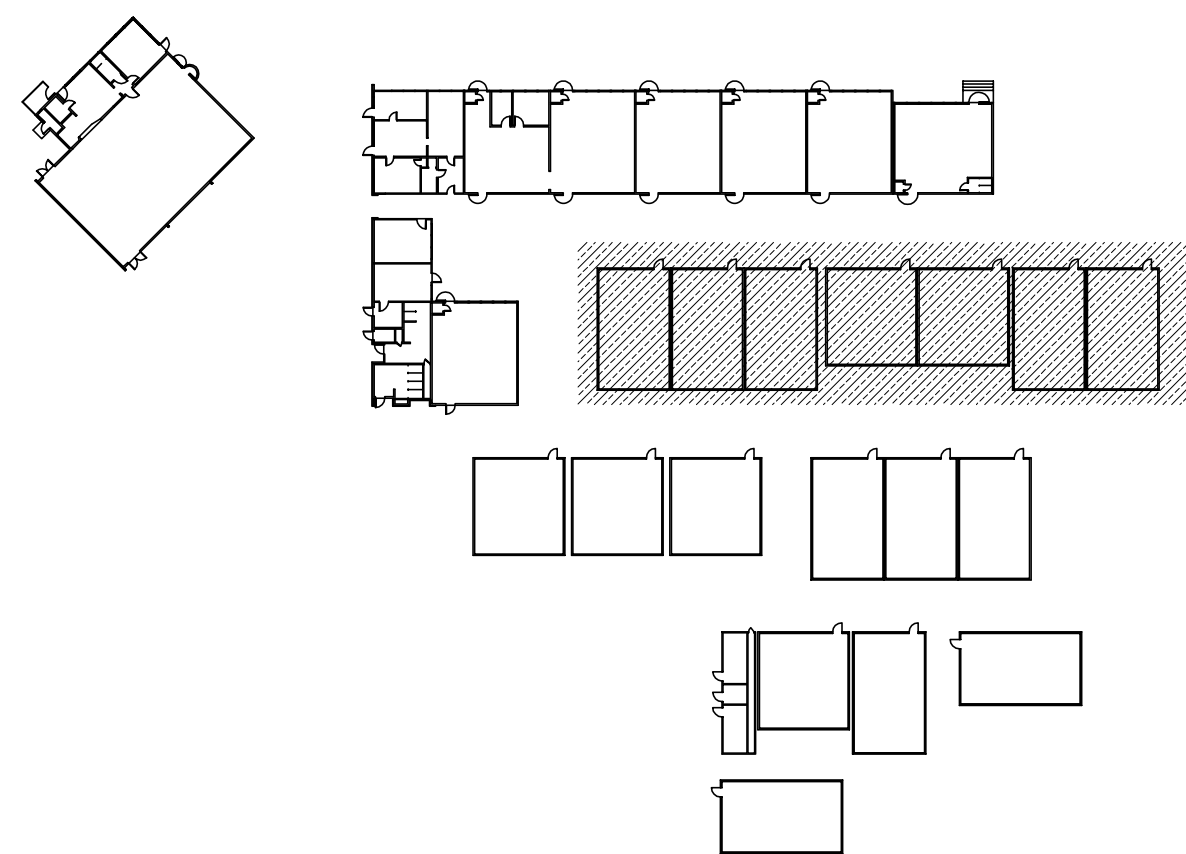


CEILING CONDITION CHART:
① DROP IN CEILING TILES.
② HARD LID CEILING.

GENERAL NOTES:
1. NO STRUCTURAL BEAMS SHALL BE PENETRATED OR ALTERED.
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SHEET NOTES:
① REWORK MDF/IDF PER RACK ELEVATION. SEE T400/T401.
② REMOVE (E) SURFACE BOX WITH PREWIRED DATA DROP. PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. REWORK (E) DATA DROP INTO (N) COMBO BOX.
③ AT (E) SURFACE BOX WITH PREWIRED DATA DROP, REMOVE KEYSTONE FROM PLATE AND PROVIDE BLANK COVER. PROVIDE SHORT SECTION OF VM2300 BETWEEN SURFACE BOX AND (N) COMBO BOX. PROVIDE CAT6A PATCH CABLE BETWEEN KEYSTONE LOCATION AND COMBO BOX. PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK.
④ PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. PROVIDE (N) 1 EA. CAT6A DATA DROP. PROVIDE VM2300 TO NEAREST DATA RACEWAY OR J-BOX.
⑤ PROVIDE (N) EXTERIOR SPEAKER WITH (N) EXTERIOR BACKBOX. PROVIDE (N) INTERIOR ENCLOSURE WITH (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP AT INTERIOR ENCLOSURE. REMOVE (E) SPEAKER, AS OCCURS.
⑥ PROVIDE (N) BACKBOX WITH (N) SPEAKER AND (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP.
⑦ PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. LOCATE (E) DATA DROP ABOVE T-BAR. FISH THROUGH WALL TO (N) CUT-IN BOX BEHIND COMBO BACKBOX.
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⑨ PROVIDE (N) RIGHT ANGLE WALL MOUNT AT (E) AP, OBERON P/N 1006-COAP9136.
⑩ PROVIDE (N) LARGE MESSAGE BOARD WITH PROTECTIVE COVER. REWORK (E) DATA DROP INTO (N) METAL WIREMOLD BOX (P/N V5741). METAL BOX REQUIRED HERE FOR ADEQUATE STABILITY OF LARGE MESSAGE BOARD.
⑪ PROVIDE (N) 2 EA. 4-PAIR COPPER FEEDERS BETWEEN MPOE AND MDF RACK. TERMINATE ON (E) 66-BLOCK AT MPOE AND ON INDIVIDUAL KEYSTONES (CENTER PAIR) AT MDF RACK.
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⑯ FULLY RECABLE (5) EA. CAT6A DATA DROPS SERVING CCTV CAMERAS FROM THIS LOCATION (MAX 300 FT.). VIA (E) PATHWAY. EXACT CAMERA LOCATIONS TO BE DETERMINED IN FIELD.
⑰ PROVIDE (N) WMS400 ALONG WALL. INCORPORATE (E) LOW VOLT CABLING INTO (N) RACEWAY WHERE POSSIBLE.

KEY PLAN



TECHNOLOGY FLOOR PLAN NEW - IDF1.02
SCALE: 1/8"=1'
0 4 8 12 16



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TECHNOLOGY & FIRE LIFE SAFETY

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SHEET REVISIONS

DELTA	DESCRIPTION	DATE

SITE KEY PLAN

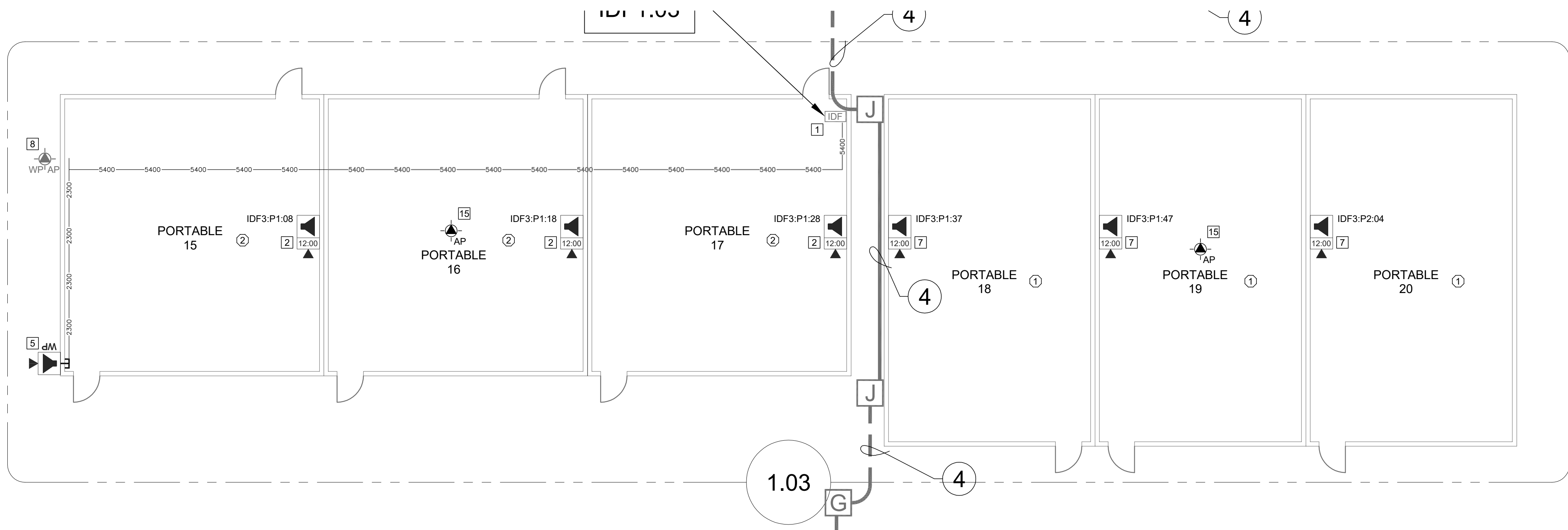
PROJECT
SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT
WOODBINE ES
TELECENTER UPGRADE
2500 52ND AVENUE
SACRAMENTO, CA 95822

SHEET TITLE
TECHNOLOGY
FLOOR PLAN NEW
- IDF1.02

DRAWING STATUS
CONSTRUCTION DRAWINGS

PROJECT NO:	0390-411
BID PACKAGE:	
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-08-26
WORKING DATE:	2025-08-26

REVISION
SHEET
T202



TECHNOLOGY FLOOR PLAN NEW - IDF1.03

SCALE: 1/8"=1'

0 4 8 12 16

CEILING CONDITION CHART:

- ① DROP IN CEILING TILES.
② HARD LID CEILING.

GENERAL NOTES:

- NO STRUCTURAL BEAMS SHALL BE PENETRATED OR ALTERED.
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SHEET NOTES:

- REWORK MDF/IDF PER RACK ELEVATION. SEE T400/T401.
- REMOVE (E) SURFACE BOX WITH PREWIRED DATA DROP. PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. REWORK (E) DATA DROP INTO (N) COMBO BOX.
- AT (E) SURFACE BOX WITH PREWIRED DATA DROP. REMOVE KEYSTONE FROM PLATE AND PROVIDE BLANK COVER. PROVIDE SHORT SECTION OF WM2300 BETWEEN SURFACE BOX AND (N) COMBO BOX. PROVIDE CAT6A PATCH CABLE BETWEEN KEYSTONE LOCATION AND COMBO BOX. PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK.
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- PROVIDE (N) EXTERIOR SPEAKER WITH (N) EXTERIOR BACKBOX. PROVIDE (N) INTERIOR ENCLOSURE WITH (N) CLASSROOM IP MODULE. PROVIDE (N) 1 EA. CAT6A DATA DROP AT INTERIOR ENCLOSURE. REMOVE (E) SPEAKER, AS OCCURS.
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- PROVIDE (N) RIGHT ANGLE WALL MOUNT AT (E) AP, OBERON PIN 1006-COAP9136.
- PROVIDE (N) LARGE MESSAGE BOARD WITH PROTECTIVE COVER. REWORK (E) DATA DROP INTO (N) METAL WIREMOLD BOX (PIN V5741). METAL BOX REQUIRED HERE FOR ADEQUATE STABILITY OF LARGE MESSAGE BOARD.
- PROVIDE (N) 2 EA. 4-PAIR COPPER FEEDERS BETWEEN MPOE AND MDF RACK. TERMINATE ON (E) 66-BLOCK AT MPOE AND ON INDIVIDUAL KEYSTONES (CENTER PAIR) AT MDF RACK.
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- REPLACE MISSING WMS400 ENTRANCE END FITTING, THIS LOCATION.
- RELOCATE (E) CLOCK DATA DROP FROM OPPOSITE WALL.
- INSTALL (N) OWNER-FURNISHED WIRELESS AP AT (E) AP DATA DROP LOCATION. REMOVE (E) WIRELESS AP, AS OCCURS.
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- PROVIDE (N) WMS400 ALONG WALL. INCORPORATE (E) LOW VOLT CABLING INTO (N) RACEWAY WHERE POSSIBLE.



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SHEET REVISIONS

DELTA	DESCRIPTION	DATE

SITE KEY PLAN

PROJECT
SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT
WOODBINE ES
TELECENTER UPGRADE
2500 52ND AVENUE
SACRAMENTO, CA 95822

SHEET TITLE
TECHNOLOGY
FLOOR PLAN NEW
- IDF1.03

DRAWING STATUS
CONSTRUCTION DRAWINGS

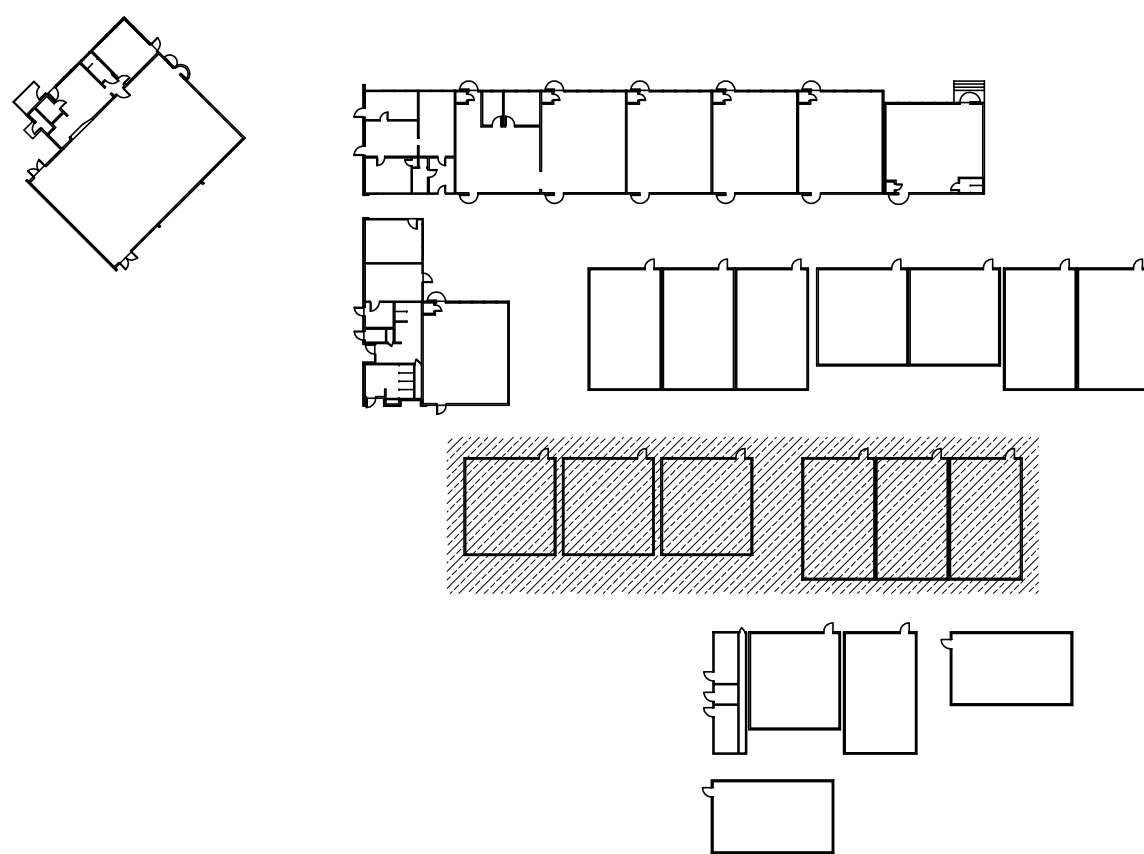
PROJECT NO:	0390-411
BID PACKAGE:	
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-08-26
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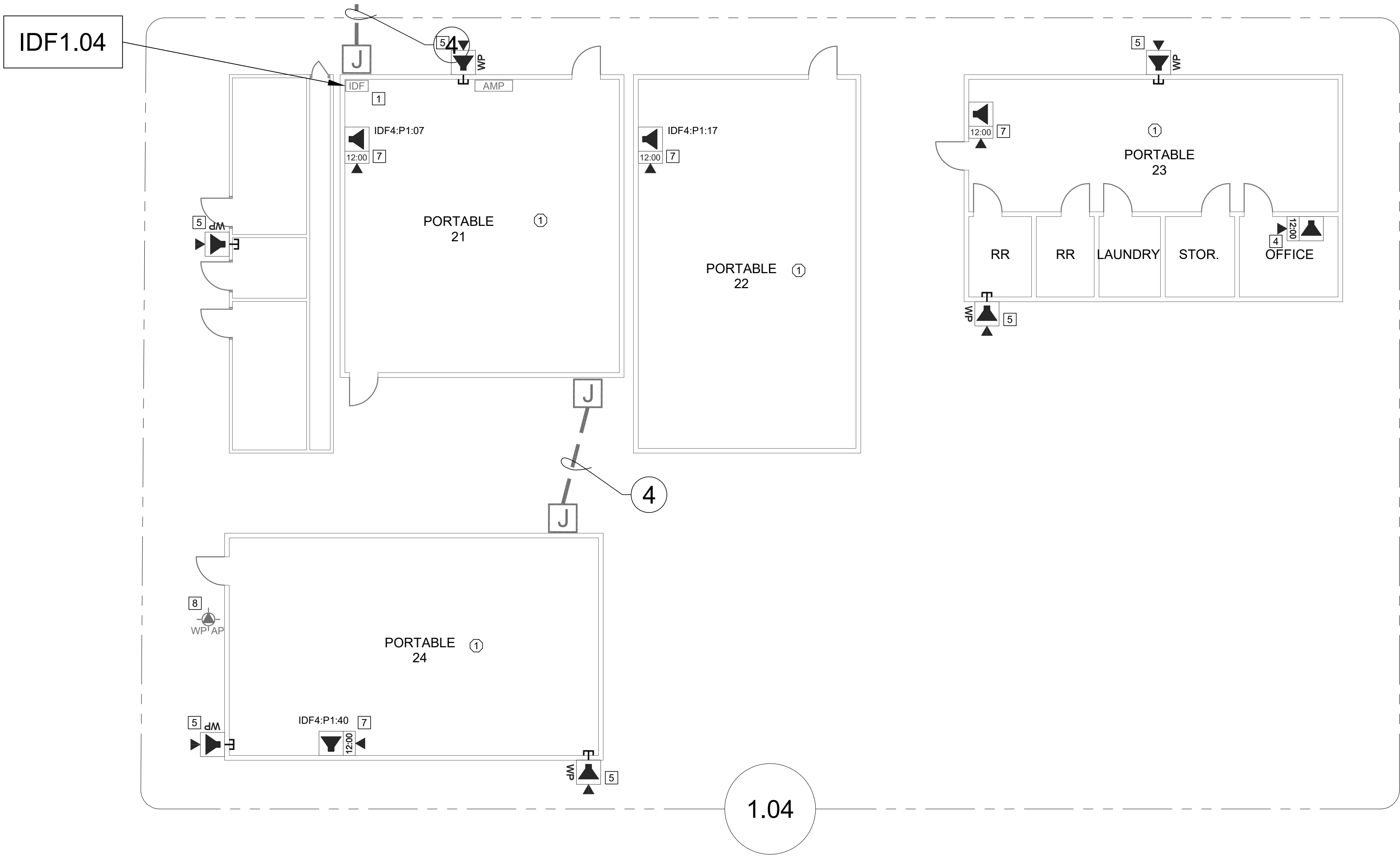
REVISION

SHEET

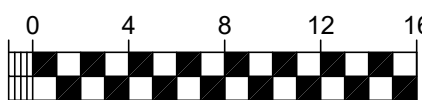
T203

KEY PLAN





TECHNOLOGY FLOOR PLAN NEW - IDF1.04



CEILING CONDITION CHART:

- ① DROP IN CEILING TILES.
② HARD LID CEILING.

GENERAL NOTES:

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SHEET NOTES:

- REWORK MDF/IDF PER RACK ELEVATION. SEE T400/T401.
- REMOVE (E) SURFACE BOX WITH PREWIRED DATA DROP. PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK. REWORK (E) DATA DROP INTO (N) COMBO BOX.
- AT (E) SURFACE BOX WITH PREWIRED DATA DROP. REMOVE KEYSTONE FROM PLATE AND PROVIDE BLANK COVER. PROVIDE SHORT SECTION OF WM2300 BETWEEN SURFACE BOX AND (N) COMBO BOX. PROVIDE CAT6A PATCH CABLE BETWEEN KEYSTONE LOCATION AND COMBO BOX. PROVIDE (N) COMBO BOX WITH (N) SPEAKER, (N) CLASSROOM IP MODULE, AND (N) IP CLOCK.
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- PROVIDE (N) RIGHT ANGLE WALL MOUNT AT (E) AP, OBERON PIN 1006-COAP9136.
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- PROVIDE (N) 2 EA. 4-PAIR COPPER FEEDERS BETWEEN MPOE AND MDF RACK. TERMINATE ON (E) 66-BLOCK AT MPOE AND ON INDIVIDUAL KEYSTONES (CENTER PAIR) AT MDF RACK.
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- PROVIDE (N) WMS400 ALONG WALL. INCORPORATE (E) LOW VOLT CABLING INTO (N) RACEWAY WHERE POSSIBLE.



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SHEET REVISIONS

DELTA	DESCRIPTION	DATE

SITE KEY PLAN

PROJECT
SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT
WOODBINE ES
TELECENTER UPGRADE
2500 52ND AVENUE
SACRAMENTO, CA 95822

SHEET TITLE
TECHNOLOGY
FLOOR PLAN NEW
- IDF1.04

DRAWING STATUS
CONSTRUCTION DRAWINGS

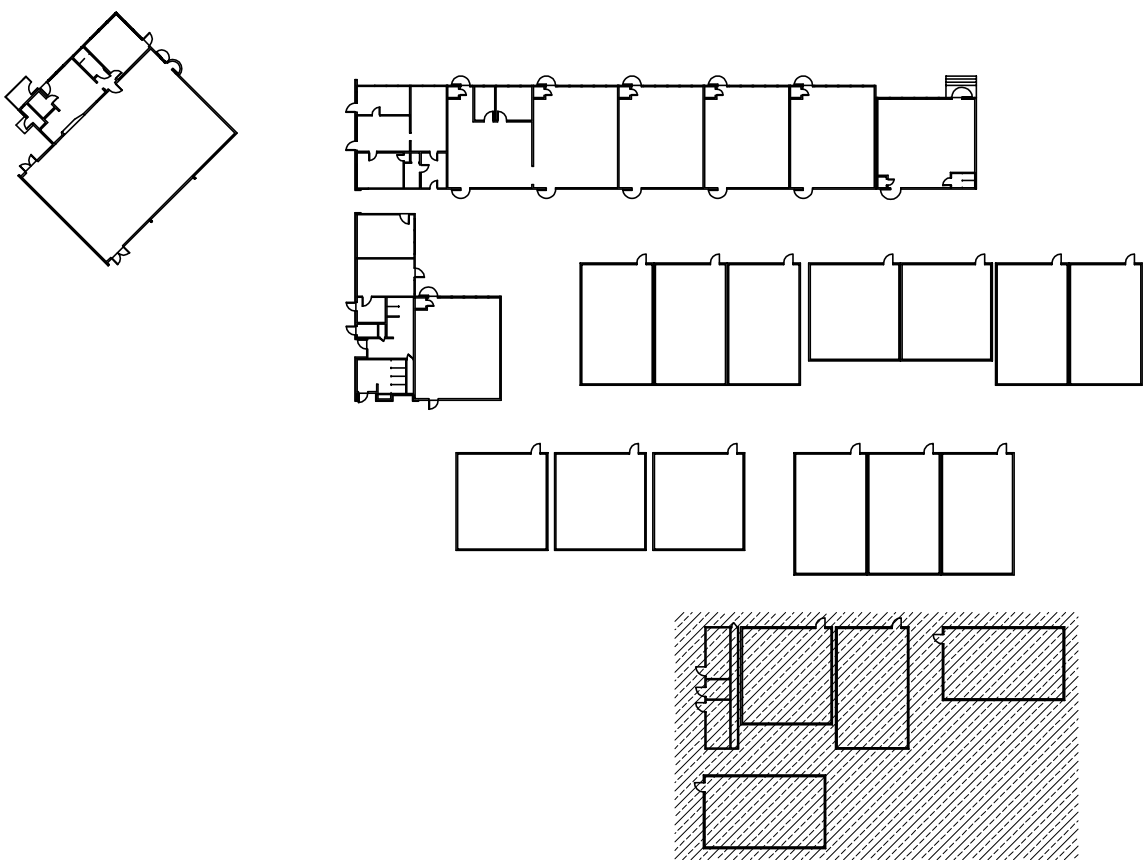
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BID PACKAGE:	
DESIGNED BY:	CS
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ISSUE DATE:	2025-08-26
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REVISION

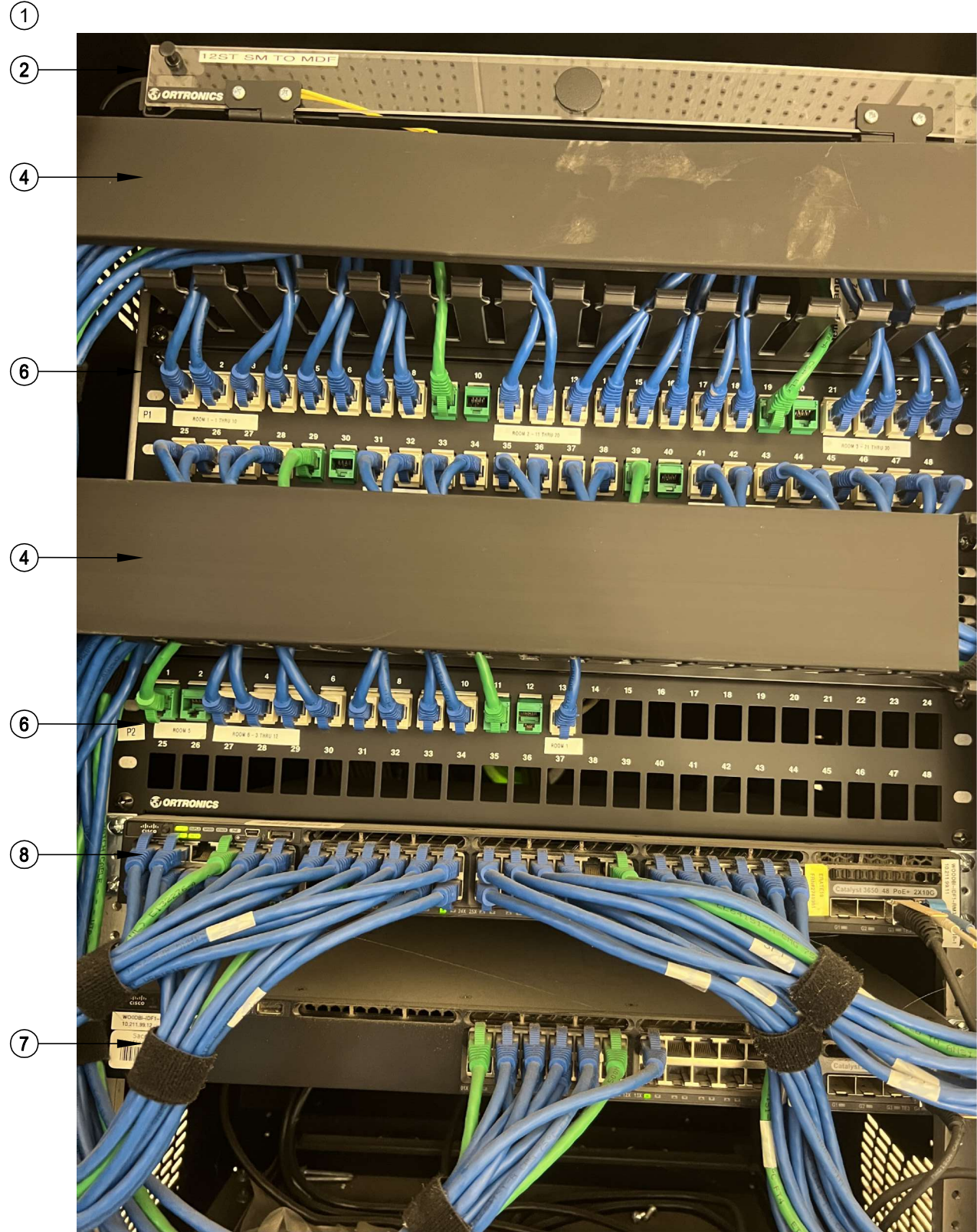
SHEET

T204

KEY PLAN

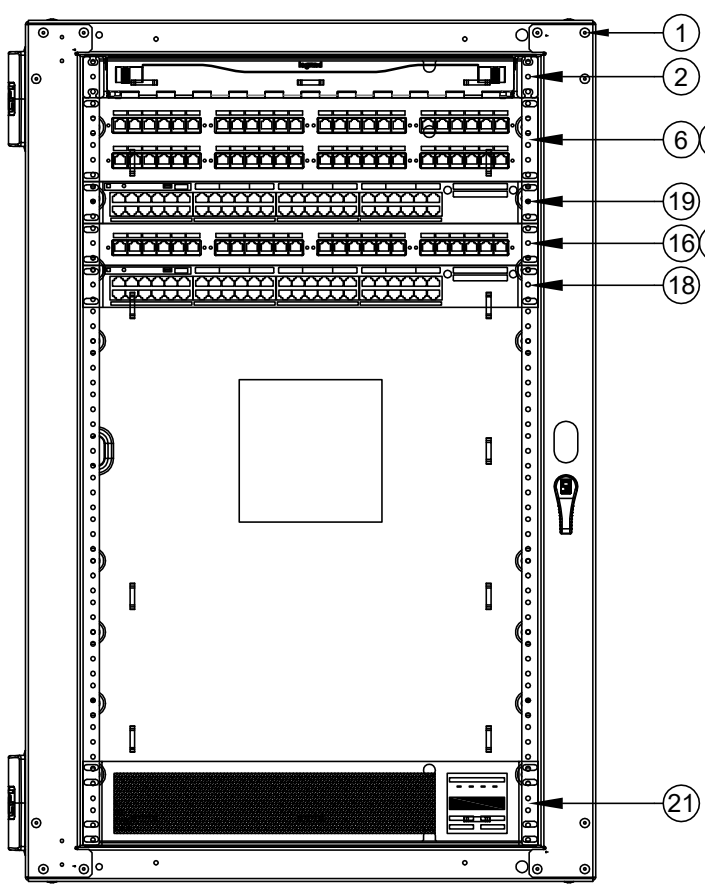


- SCOPE OF WORK - IDF 1.01
1. PROVIDE (N) 24P PATCH PANEL PER THE ELEVATION. RELOCATE (13) KEYSTONES CURRENTLY IN (E) PATCH PANEL P2 INTO THIS (N) 24P PATCH PANEL. COPY LABELING FROM (E) PATCH PANEL.
 2. PROVIDE (N) UNINTERRUPTIBLE POWER SUPPLY PER THE ELEVATION. ROUTE POWER FOR ALL RACK COMPONENTS SO THAT IT IS PROTECTED BY THE UPS.



RACK - EXISTING CONDITION

SCALE: NONE



RACK - FINAL LAYOUT

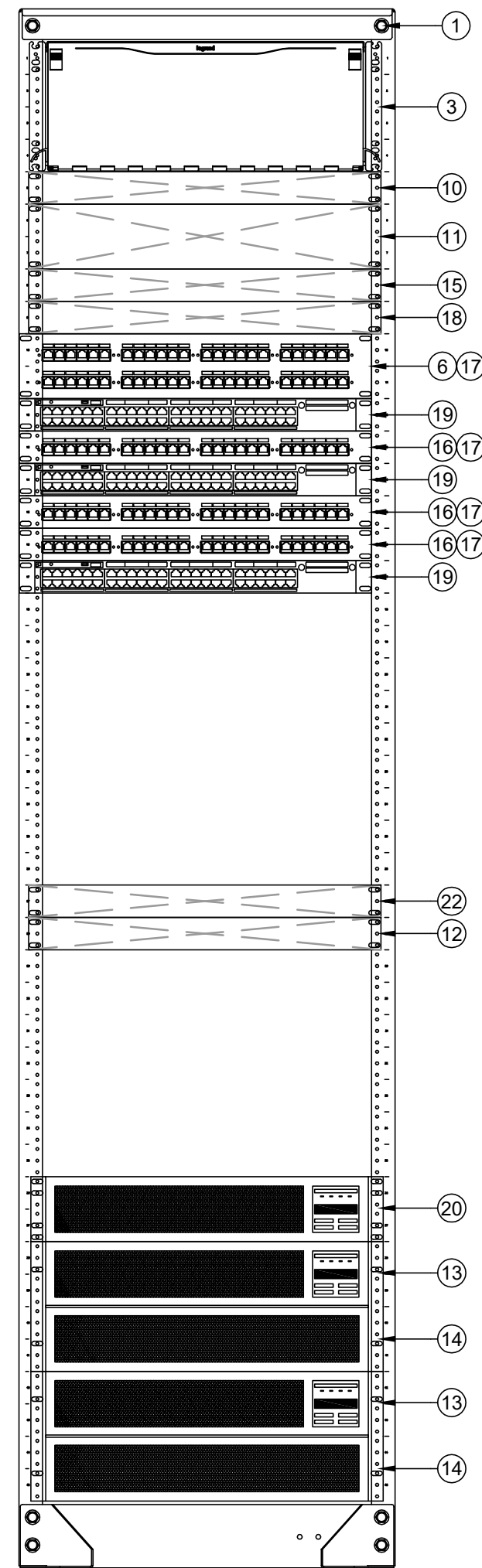
SCALE: NONE

- SCOPE OF WORK - MDF 1.00
1. PROVIDE (N) 24P PATCH PANELS PER THE ELEVATION. RELOCATE (29) KEYSTONES CURRENTLY IN (E) PATCH PANEL P3 IN THESE (N) 24P PATCH PANELS. COPY LABELING FROM (E) PATCH PANELS.
 2. TERMINATE 16 EA. (E) CCTV DATA DROP ON (N) BLUE KEYSTONE IN (N) PATCH PANELS P3, P4.
 3. REMOVE (E) CCTV SWITCH AND PSU (AT REAR OF RACK, NOT PICTURED) AND RETURN TO DISTRICT.
 4. PROVIDE (N) UNINTERRUPTIBLE POWER SUPPLY PER THE ELEVATION. ROUTE POWER FOR THE TELECENTER HEADEND COMPONENTS SO THAT IT IS PROTECTED BY THIS UPS.



RACK - EXISTING CONDITION

SCALE: NONE



RACK - FINAL LAYOUT

SCALE: NONE

GENERAL SCOPE OF WORK:
(ALL IDF/MDF)

1. REMOVE ALL (E) RACK-MOUNTED CABLE MANAGER(S).
2. PROVIDE (N) REAR CABLE MANAGEMENT BAR(S) AT EACH PATCH PANEL AND DRESS (E) CABLES FOR STRAIN RELIEF PER 11/17800.
3. RELOCATE (E) DEVICES PER THE ELEVATION.
4. INSTALL (N) OWNER-FURNISHED SWITCHES PER THE ELEVATION.
5. PROVIDE (N) 12" SLIMLINE CAT6A PATCH CABLES TO REPLACE ALL (E) PATCH CABLES AND FOR ALL (N) DROPS, COLOR CODED TO DISTRICT STANDARD.

EQUIPMENT SCHEDULE: ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)				
SYMBOL	DESCRIPTION	MFG	PART NUMBER	NOTES / DETAIL REFERENCES
①	RACK CABINET	EXISTING	EXISTING	N/A
②	(E) 1U FIBER LIU	EXISTING	EXISTING	N/A
③	(E) 4U FIBER LIU	EXISTING	EXISTING	N/A
④	(E) 2U CABLE MANAGER	EXISTING	EXISTING	DEMO
⑤	(E) 1U 24P PATCH PANEL	EXISTING	EXISTING	RELOCATE PER ELEVATION
⑥	(E) 2U 48P PATCH PANEL	EXISTING	EXISTING	RELOCATE PER ELEVATION
⑦	(E) 24P SWITCH	EXISTING	EXISTING	DEMO
⑧	(E) 48P SWITCH	EXISTING	EXISTING	DEMO
⑨	(E) CCTV SWITCH AND PSU	EXISTING	EXISTING	DEMO
⑩	(E) CORE SWITCH	EXISTING	EXISTING	N/A
⑪	(E) VOIP GATEWAY	EXISTING	EXISTING	N/A
⑫	(E) NVR	EXISTING	EXISTING	N/A
⑬	(E) UPS	EXISTING	EXISTING	N/A
⑭	(E) UPS BATTERY	EXISTING	EXISTING	N/A
⑮	(E) CWM CHASSIS	EXISTING	EXISTING	N/A
⑯	(N) 1U 24P PATCH PANEL	ORTRONICS	SPKSU24	N/A
⑰	(N) REAR CABLE MANAGEMENT BAR	ORTRONICS	OR-CMBFR0RU	N/A
⑱	(E) SERVICE PROVIDER LIU	EXISTING	EXISTING	N/A
⑲	(N) 48P SWITCH	QISCO	QFCI	N/A
⑳	(N) UPS - 1000VA	NIC	NIC.L1000	N/A
㉑	(N) UPS - 1500VA	NIC	NIC.L1500	N/A



KMM SERVICES, INC
TECHNOLOGY & FIRE LIFE SAFETY

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SHEET REVISIONS

DELTA	DESCRIPTION	DATE

SITE KEY PLAN

PROJECT
SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT
WOODBINE ES
TELECENTER UPGRADE
2500 52ND AVENUE
SACRAMENTO, CA 95822

SHEET TITLE
TECHNOLOGY
RACK ELEVATIONS

DRAWING STATUS
CONSTRUCTION DRAWINGS

PROJECT NO:	0390-411
BID PACKAGE:	
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-08-26
WORKING DATE:	2025-08-26

REVISION

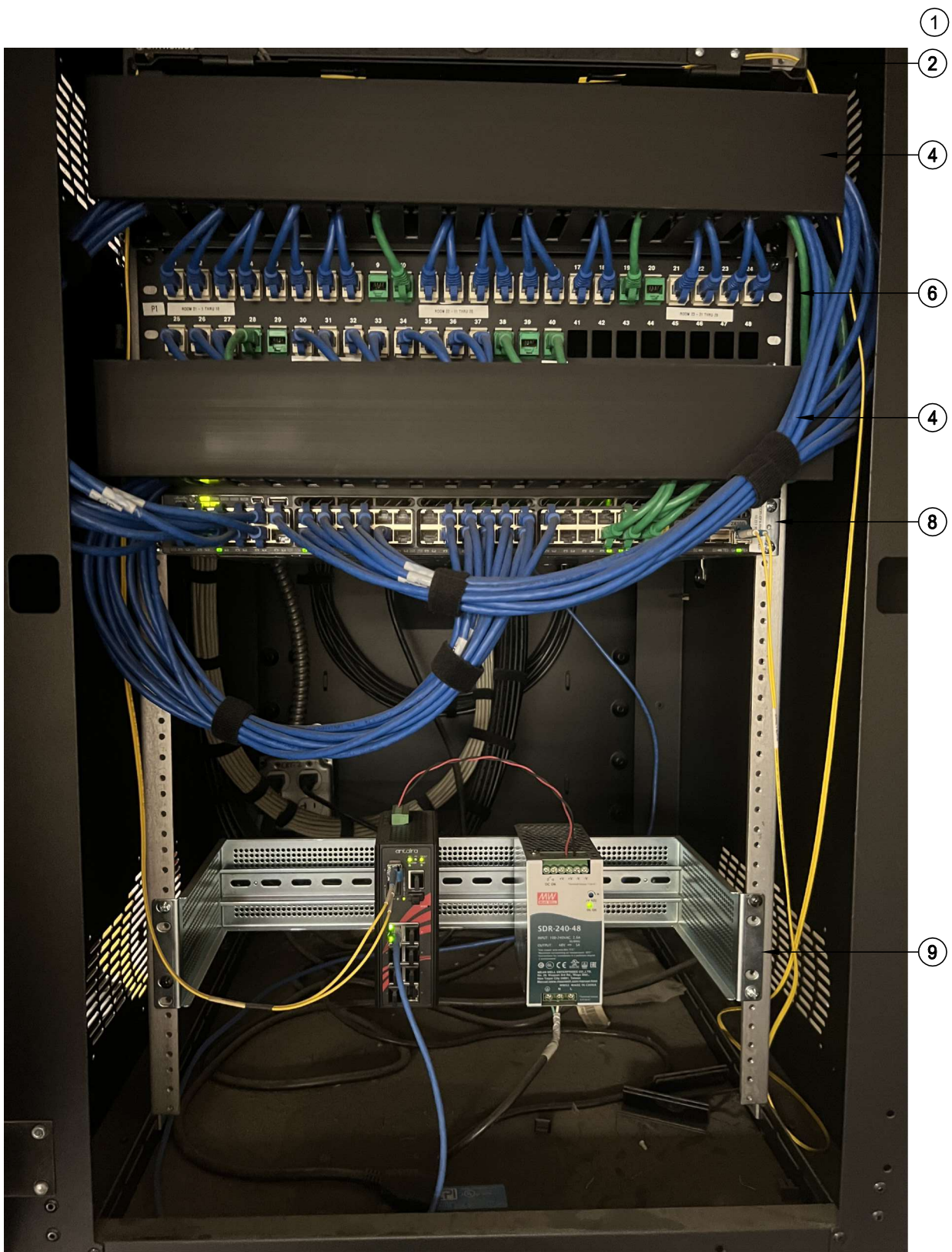
SHEET

T400

REFER TO SYMBOL LEGEND ON T400 FOR ALL DEVICES ON THIS SHEET

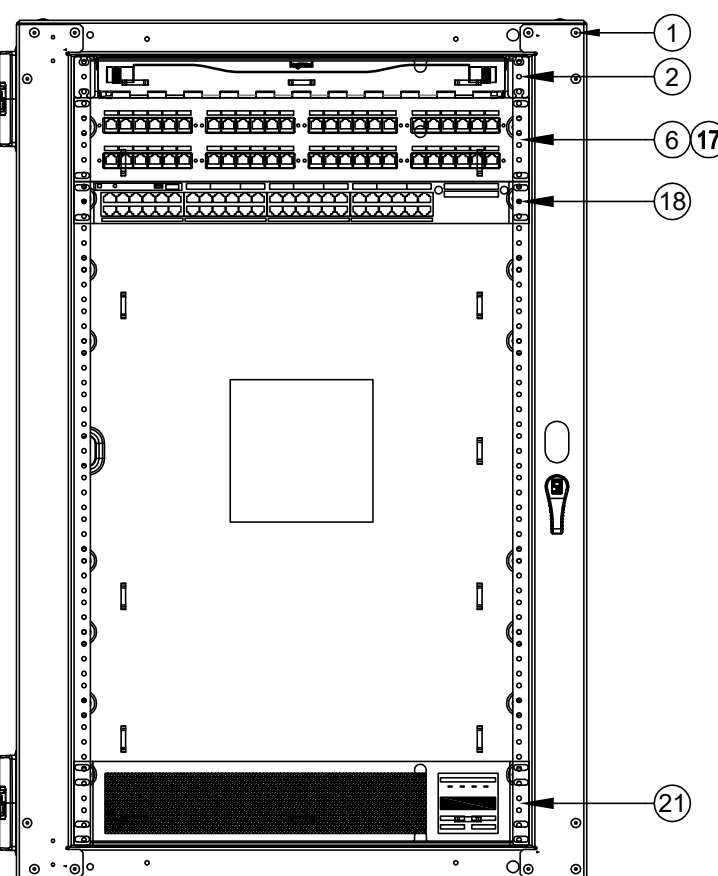
SCOPE OF WORK - IDF 1.04

1. TERMINATE 1 EA. (E) CCTV DATA DROP ON (N) BLUE KEYSTONE IN (N) PATCH PANEL P2.
2. REMOVE (E) CCTV SWITCH AND PSU (SYMBOL 9) AND RETURN TO DISTRICT.
3. PROVIDE (N) UNINTERRUPTIBLE POWER SUPPLY PER THE ELEVATION. ROUTE POWER FOR ALL RACK COMPONENTS SO THAT IT IS PROTECTED BY THE UPS.



RACK - EXISTING CONDITION

SCALE: NONE

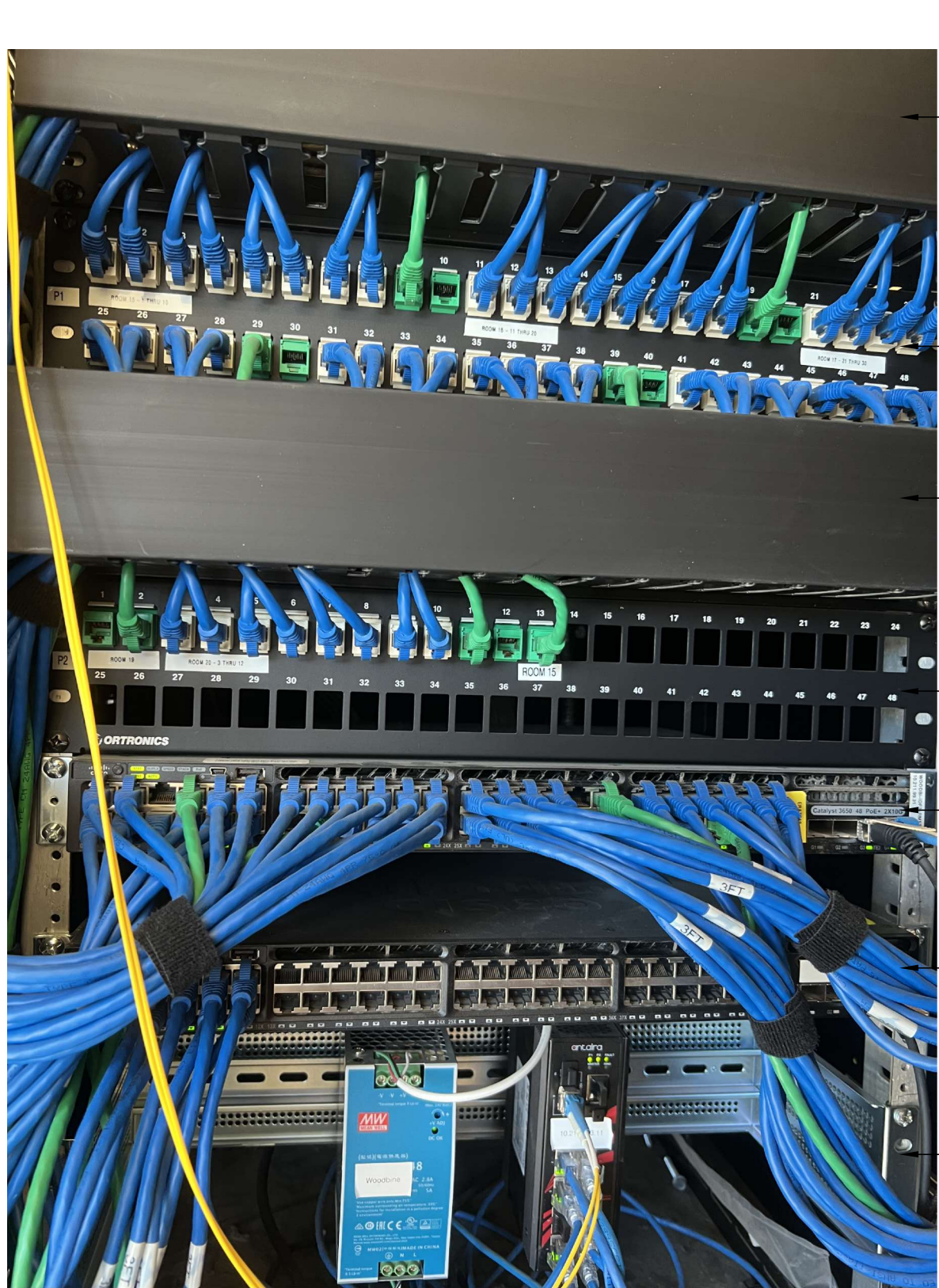


RACK - FINAL LAYOUT

SCALE: NONE

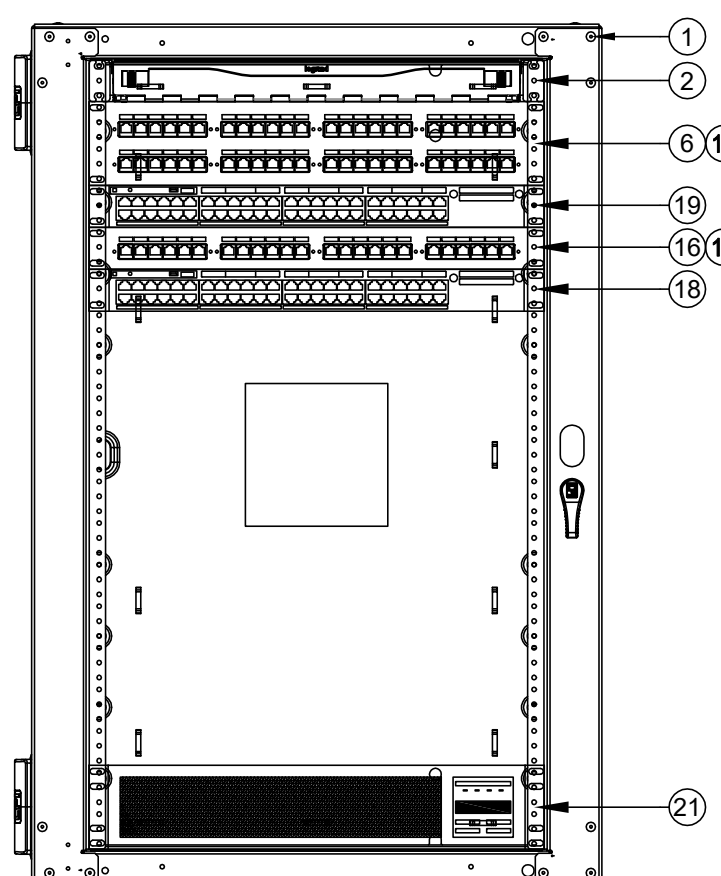
SCOPE OF WORK - IDF 1.03

1. PROVIDE (N) 24P PATCH PANEL PER THE ELEVATION. RELOCATE (13) KEYSTONES CURRENTLY IN (E) PATCH PANEL P2 INTO THIS (N) 24P PATCH PANEL. COPY LABELING FROM (E) PATCH PANEL.
2. TERMINATE 7 EA. (E) CCTV DATA DROP ON (N) BLUE KEYSTONE IN (N) PATCH PANEL P2.
3. REMOVE (E) CCTV SWITCH AND PSU (SYMBOL 9) AND RETURN TO DISTRICT.
4. PROVIDE (N) UNINTERRUPTIBLE POWER SUPPLY PER THE ELEVATION. ROUTE POWER FOR ALL RACK COMPONENTS SO THAT IT IS PROTECTED BY THE UPS.



RACK - EXISTING CONDITION

SCALE: NONE

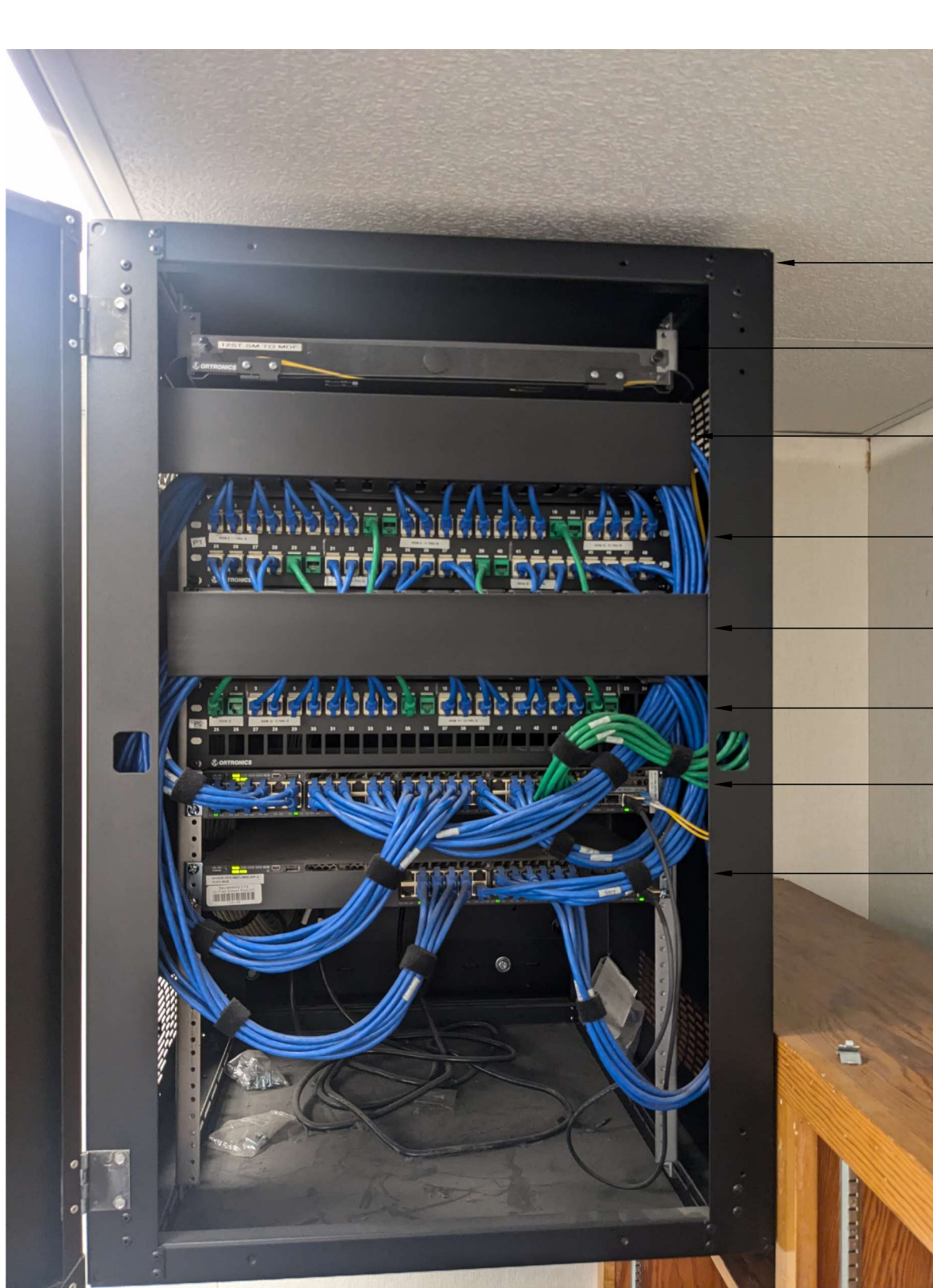


RACK - FINAL LAYOUT

SCALE: NONE

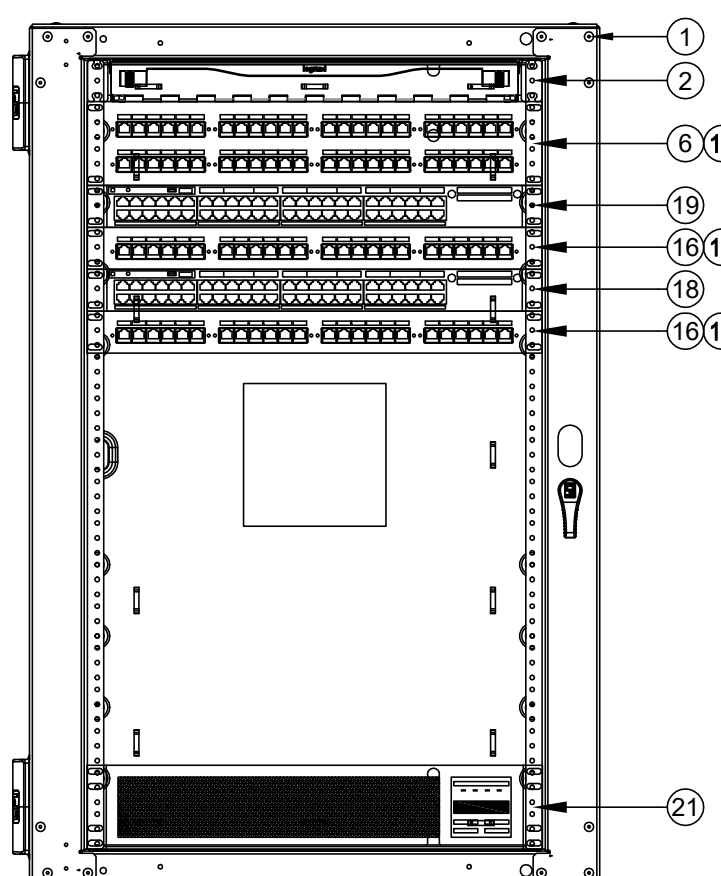
SCOPE OF WORK - IDF 1.02

1. PROVIDE (N) 24P PATCH PANEL PER THE ELEVATION. RELOCATE (22) KEYSTONES CURRENTLY IN (E) PATCH PANEL P2 INTO THIS (N) 24P PATCH PANEL. COPY LABELING FROM (E) PATCH PANEL.
2. PROVIDE (N) UNINTERRUPTIBLE POWER SUPPLY PER THE ELEVATION. ROUTE POWER FOR ALL RACK COMPONENTS SO THAT IT IS PROTECTED BY THE UPS.



RACK - EXISTING CONDITION

SCALE: NONE



RACK - FINAL LAYOUT

SCALE: NONE



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UNIFIED SCHOOL DISTRICT
WOODBINE ES
TELECENTER UPGRADE
2500 52ND AVENUE
SACRAMENTO, CA 95822

SHEET TITLE
TECHNOLOGY
RACK ELEVATIONS

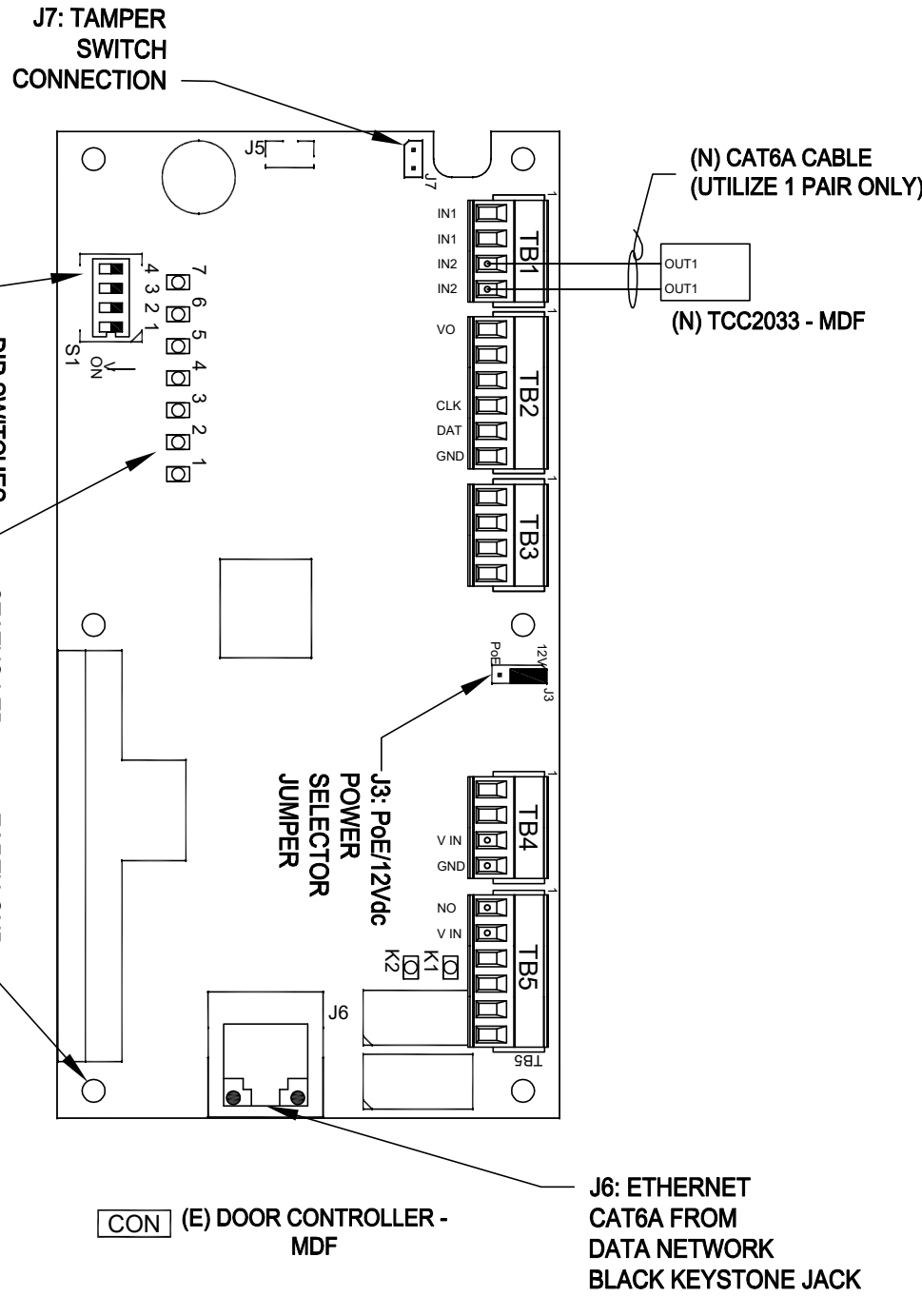
DRAWING STATUS
CONSTRUCTION DRAWINGS

PROJECT NO:	0390-411
BID PACKAGE:	
DESIGNED BY:	CS
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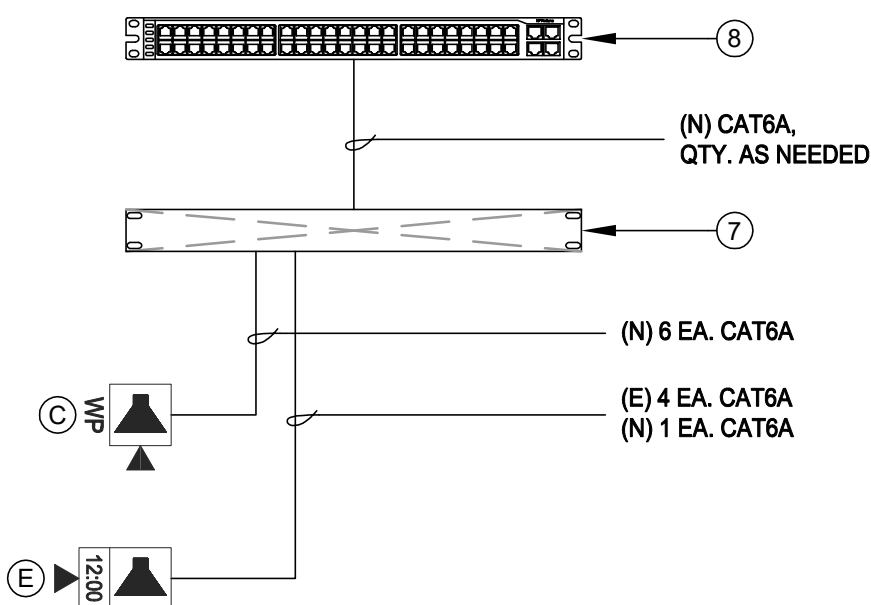
REVISION

SHEET

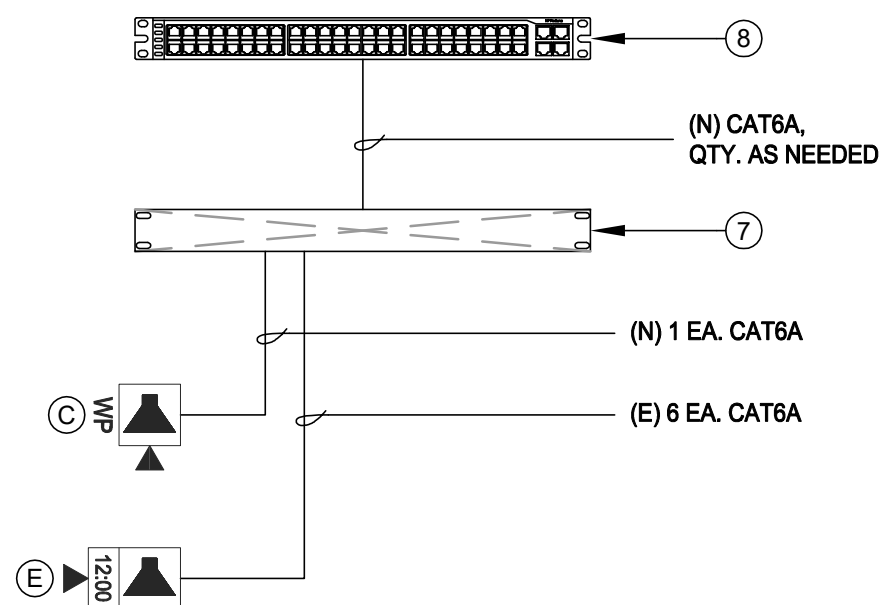
T401



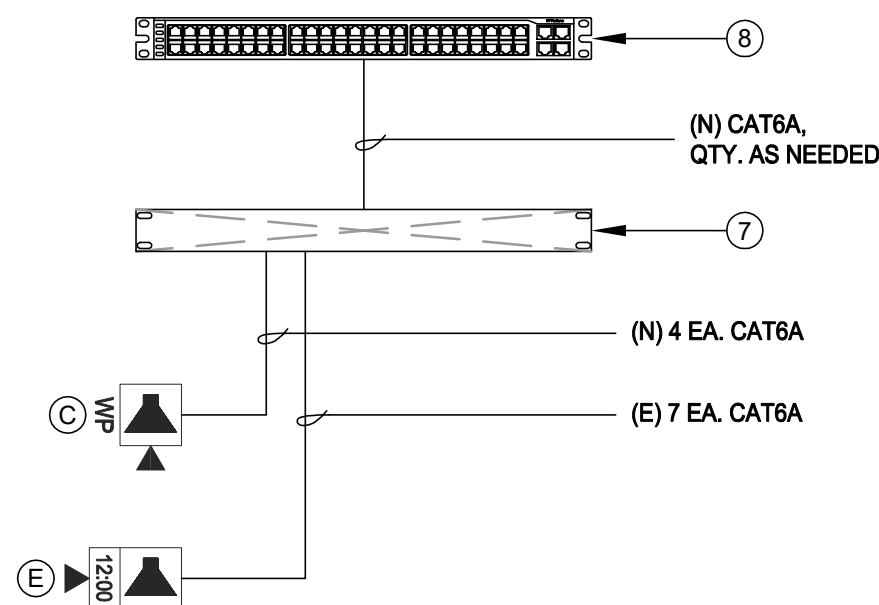
9 TELECENTER TO ACCESS CONTROL SINGLE LINE
SCALE: NONE



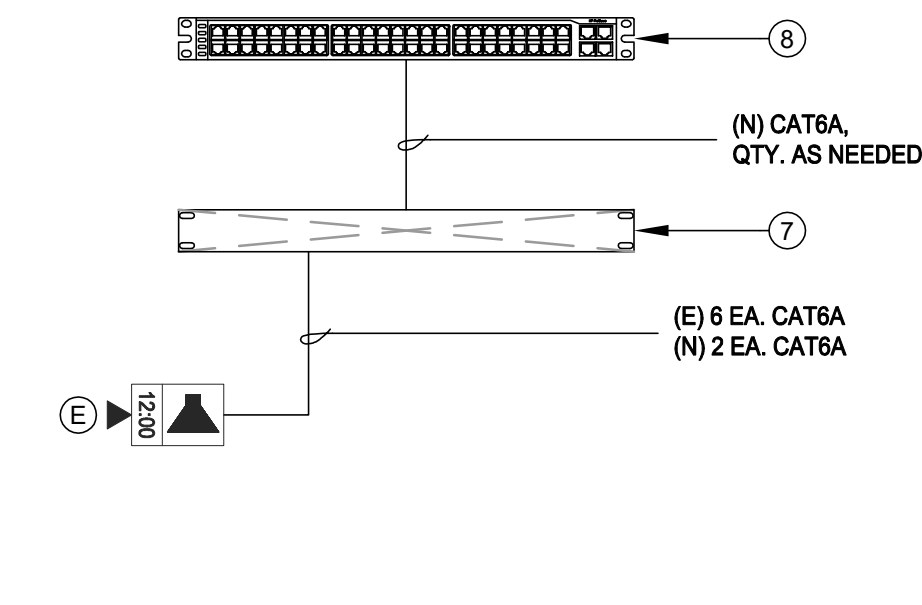
5 DATA RACK LAYOUT - IDF 1.04
SCALE: NONE



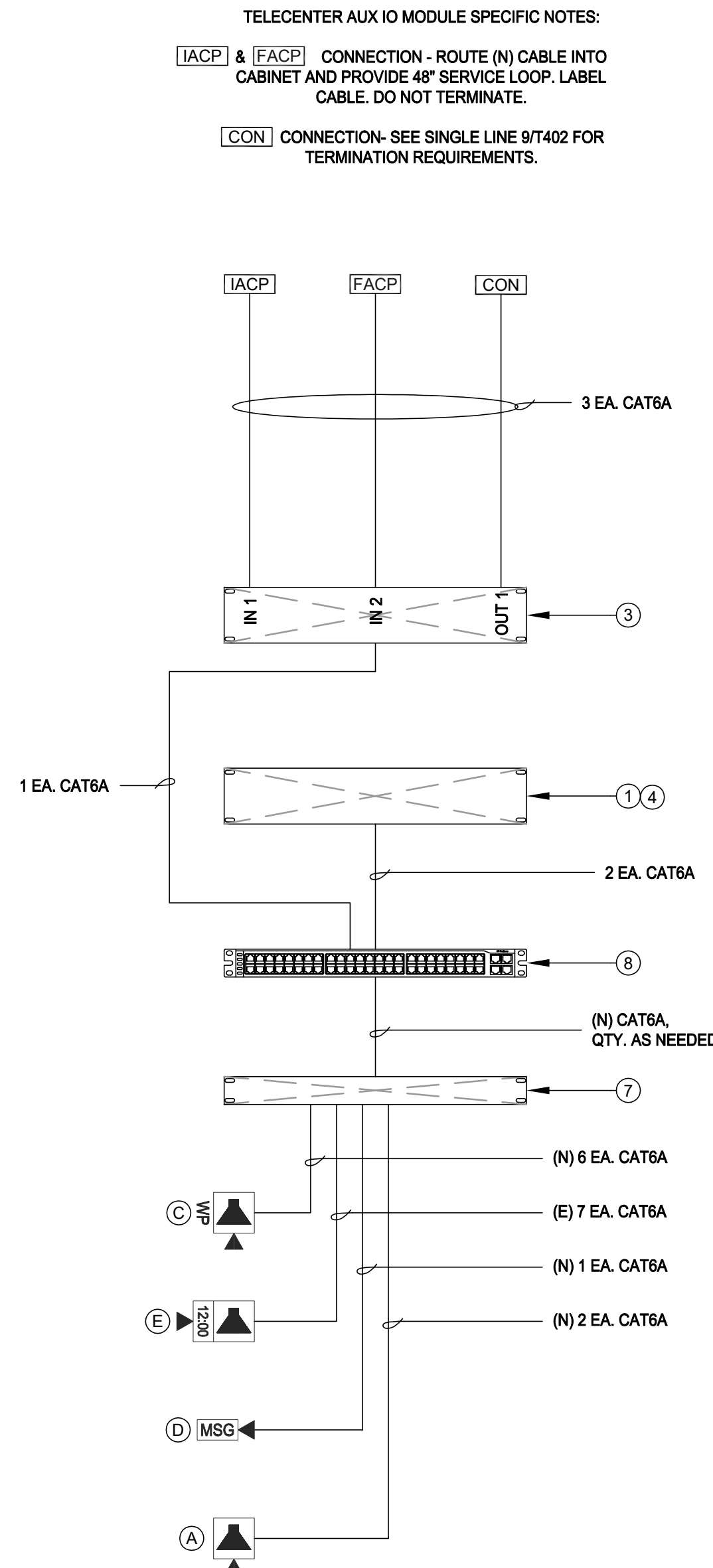
4 DATA RACK LAYOUT - IDF 1.03
SCALE: NONE



3 DATA RACK LAYOUT - IDF 1.02
SCALE: NONE



2 DATA RACK LAYOUT - IDF 1.01
SCALE: NONE



1 DATA RACK LAYOUT - MDF 1.00
SCALE: NONE

EQUIPMENT INTERCOM SCHEDULE: ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)				
SYMBOL	DESCRIPTION	MODEL	PART NUMBER	NOTES / DETAIL REFERENCES
①	TELECENTER U IP CONTROLLER	RAULAND	TCC2000	N/A
②	TELECENTER U ADMIN CONSOLE		TCC2045	N/A
③	TELECENTER U AUX. IN/OUT. MODULE		TCC2033	N/A
	UNIVERSAL RACK MOUNTING KIT		TCC2099	N/A
④	TELECENTER U PROGRAM LINE INPUT MODULE		TCC2055	N/A
⑦	24-PORT OR 48-PORT PATCH PANEL	SEE DATA TECHNOLOGY RACK ELEVATIONS BELOW FOR MORE INFORMATION.		(N) OR (E) AS NOTED
⑧	48-PORT NETWORK SWITCH	SEE DATA TECHNOLOGY RACK ELEVATIONS BELOW FOR MORE INFORMATION.		(N) OR (E) AS NOTED
(IACP)	INTRUSION ALARM CONTROL PANEL	EXISTING	EXISTING	N/A
(FACP)	FIRE ALARM CONTROL PANEL	EXISTING	EXISTING	N/A
(CON)	ACCESS CONTROL PANEL	EXISTING	EXISTING	N/A

EQUIPMENT SCHEDULE INTERIOR SURFACE SPEAKER: ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)				
DESCRIPTION	MODEL	PART NUMBER	NOTES / DETAIL REFERENCES	
TELECENTER U IP CLASSROOM MODULE	RAULAND	TCC2011B	MOUNT INSIDE ENCLOSURE	
8 OHM, 8" SPEAKER WITH RJ45 CONNECTOR	RAULAND	US0880	N/A	
SPEAKER BAFFLE	RAULAND	ACC1003	N/A	
SURFACE MOUNT SPEAKER ENCLOSURE	RAULAND	ACC1112	N/A	

EQUIPMENT SCHEDULE EXTERIOR SURFACE SPEAKER: ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)				
DESCRIPTION	MODEL	PART NUMBER	NOTES / DETAIL REFERENCES	
TELECENTER U IP CLASSROOM MODULE	RAULAND	TCC2011B	MOUNT INSIDE BUILDING	
TELECENTER U BREAKOUT MODULE	RAULAND	603101	MOUNT INSIDE BUILDING	
8 OHM, 8" MOISTURE RESISTANT SPEAKER	LOWELL	8C10MRB	N/A	
GRILLE VANDAL RESISTANT	RAULAND	ACC1012	N/A	
SURFACE MOUNT SPEAKER ENCLOSURE	RAULAND	ACC1113	N/A	
(N) SURFACE MOUNTED 4 GANG BACKBOX - WHITE	FSR	SMWB-4G-WHT	MOUNT INSIDE BUILDING	

EQUIPMENT SCHEDULE LARGE MESSAGE BOARD: ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)				
DESCRIPTION	MODEL	PART NUMBER	NOTES / DETAIL REFERENCES	
LARGE MESSAGE BOARD	RAULAND	TCC3012L	N/A	
PROTECTIVE CAGE	AMERICAN TIME	G20550F-28	N/A	

EQUIPMENT SCHEDULE INTERIOR SURFACE CLOCK/SPEAKER COMBO: ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)				
DESCRIPTION	MODEL	PART NUMBER	NOTES / DETAIL REFERENCES	
TELECENTER U IP CLASSROOM MODULE	RAULAND	TCC2011B	MOUNT IN ENCLOSURE	
IP DIGITAL CLOCK	RAULAND	TCC3011S	N/A	
BAFFLE ASSEMBLY WITH SPEAKER	RAULAND	ACC3011S	N/A	
SURFACE MOUNT ENCLOSURE CLOCK/SPEAKER COMBO	RAULAND	ACC3011SBB	N/A	

ACTION MATRIX: INTERCONNECTIONS TO OTHER SYSTEMS				
MODULES	TCC2033 (IDF 1.01)			
I/O PORTS	IN-1	IN-2	OUT-1	OUT-2
EVENT: LOCKDOWN			(C)	
EVENT: INTRUSION ALARM ACTIVE	(A)			
EVENT: FIRE ALARM ACTIVE		(B)		
(A)	INPUT: CLOSURE FROM INTRUSION ALARM PANEL			
(B)	INPUT: CLOSURE FROM FIRE ALARM PANEL			
(C)	OUTPUT: CLOSURE TO ACCESS CONTROL			



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SHEET REVISIONS		
DELTA	DESCRIPTION	DATE

SITE KEY PLAN

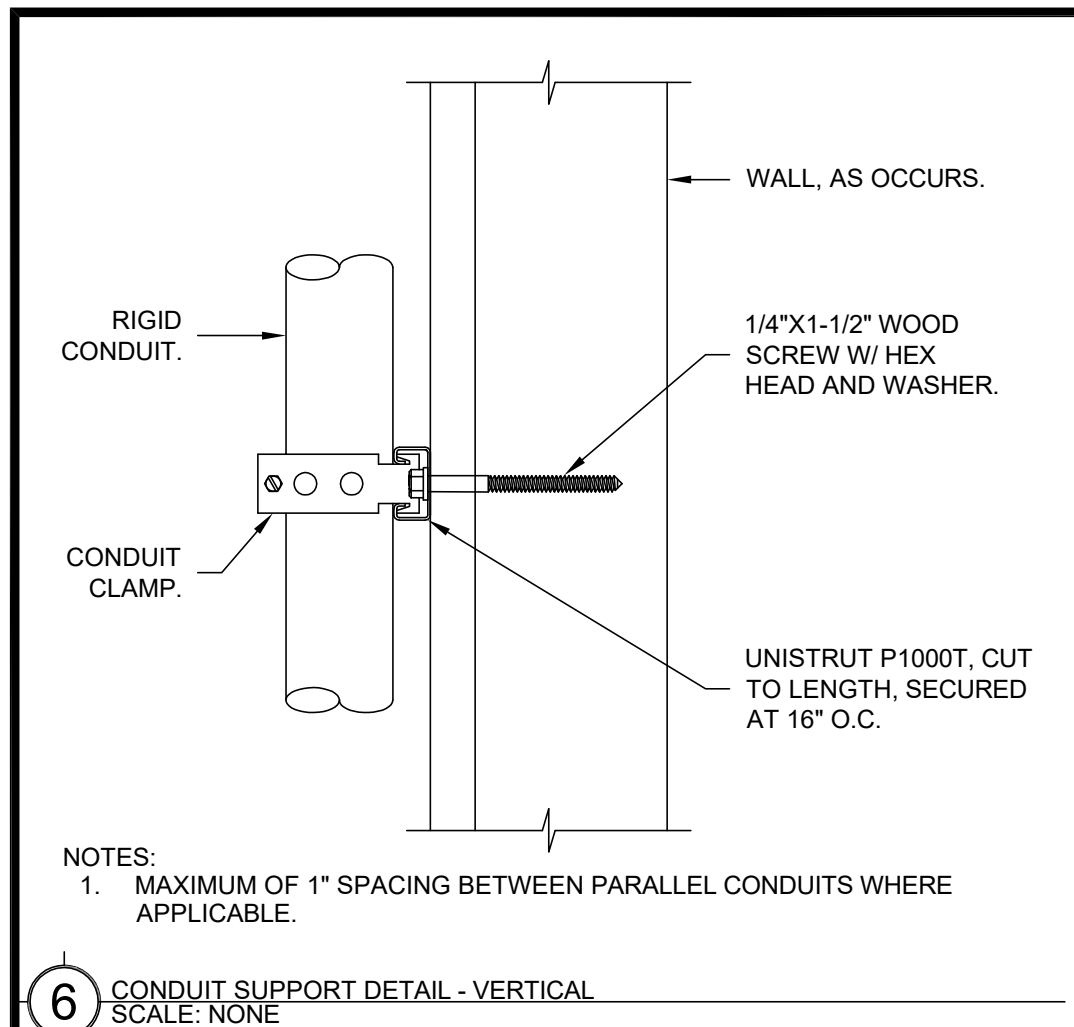
PROJECT
SACRAMENTO CITY
UNIFIED SCHOOL DISTRICT
WOODBINE ES
TELECENTER UPGRADE
2500 52ND AVENUE
SACRAMENTO, CA 95822
SHEET TITLE
TECHNOLOGY
SINGLE LINE DIAGRAMS

DRAWING STATUS
CONSTRUCTION DRAWINGS

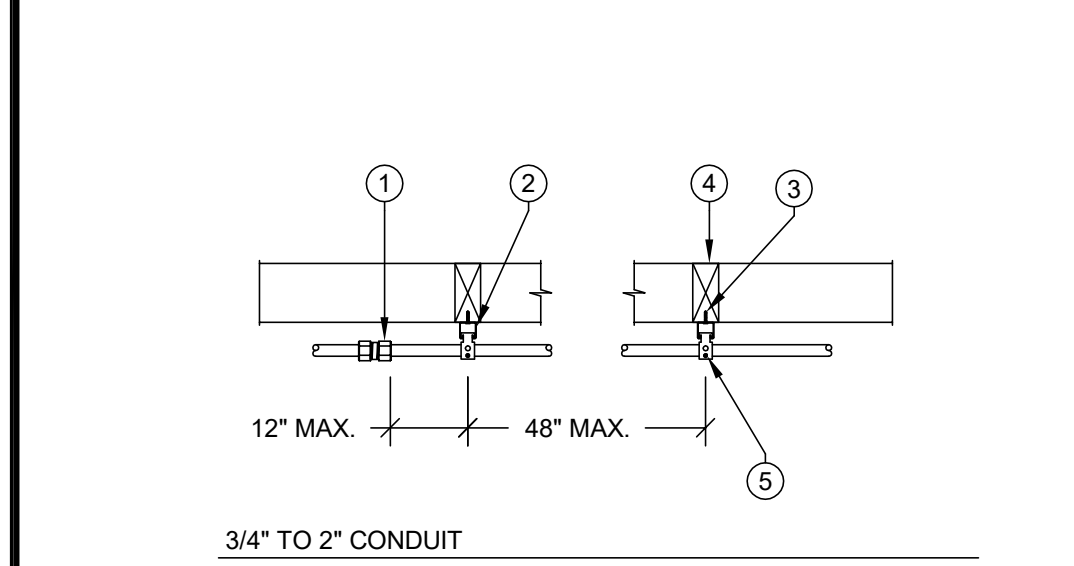
PROJECT NO:	0390-411
BID PACKAGE:	
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-08-26
WORKING DATE:	2025-08-26

REVISION

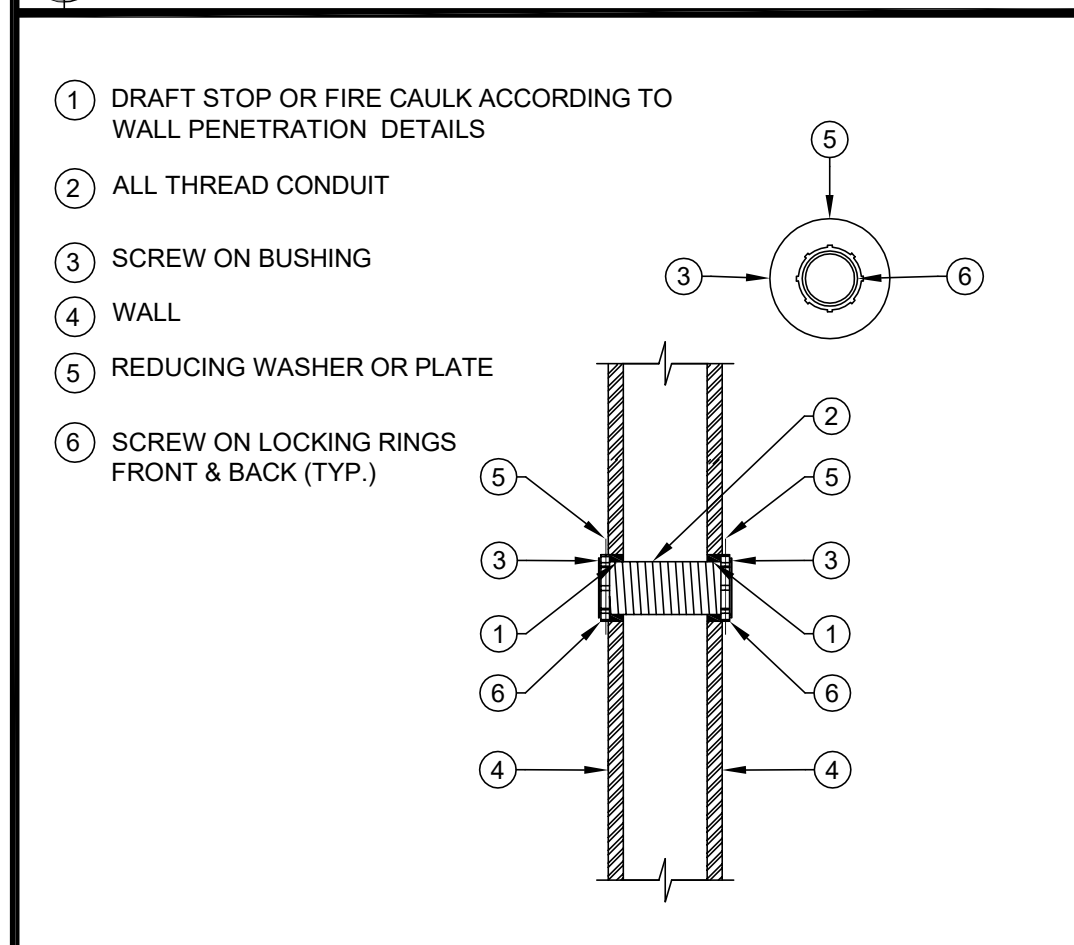
SHEET
T402



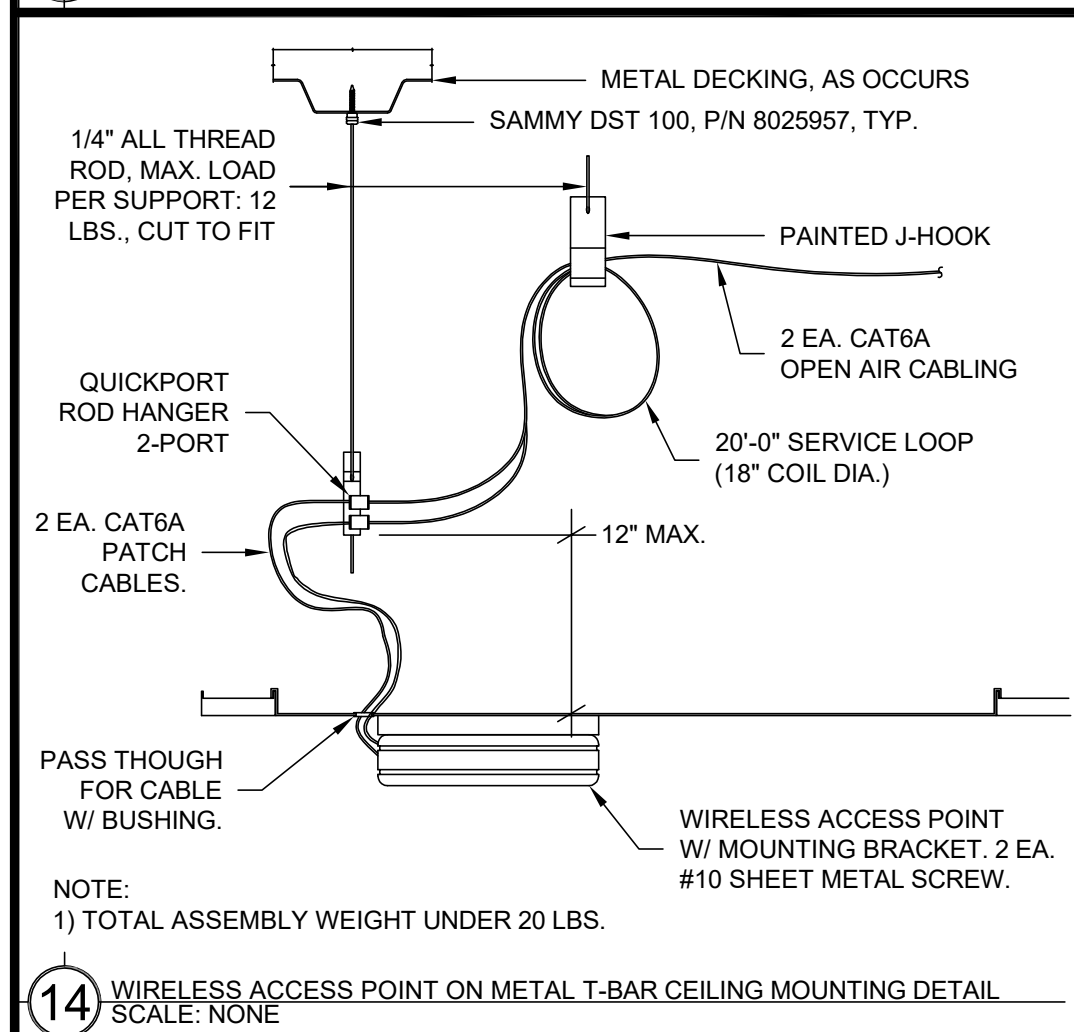
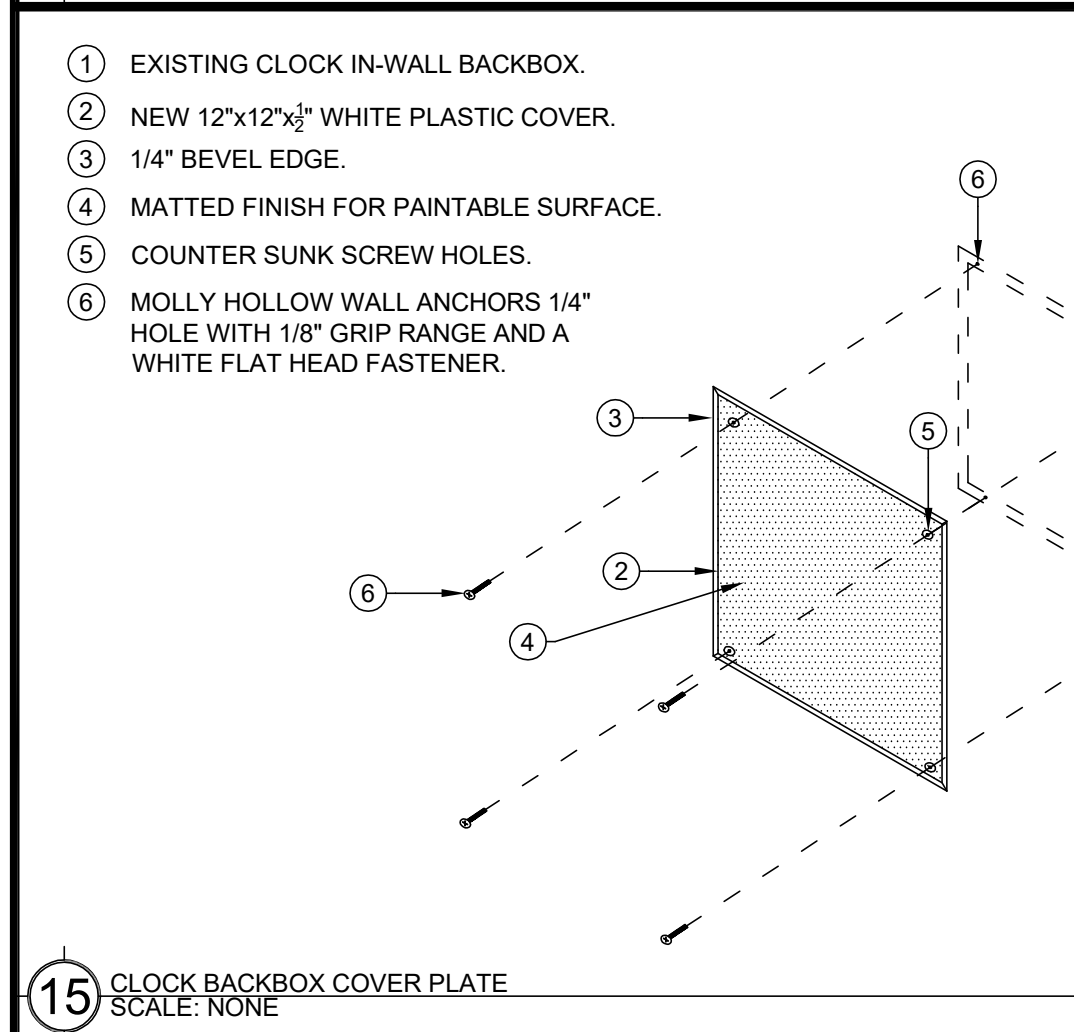
- NOTES:
1. MAXIMUM OF 1" SPACING BETWEEN PARALLEL CONDUITS WHERE APPLICABLE.
- 6 CONDUIT SUPPORT DETAIL - VERTICAL
SCALE: NONE
- 1 WEATHERPROOF COUPLING DEVICE BOX OR JUNCTION, TYP.
2 UNISTRUT P1000T, TYP.
3 1/4\"/>



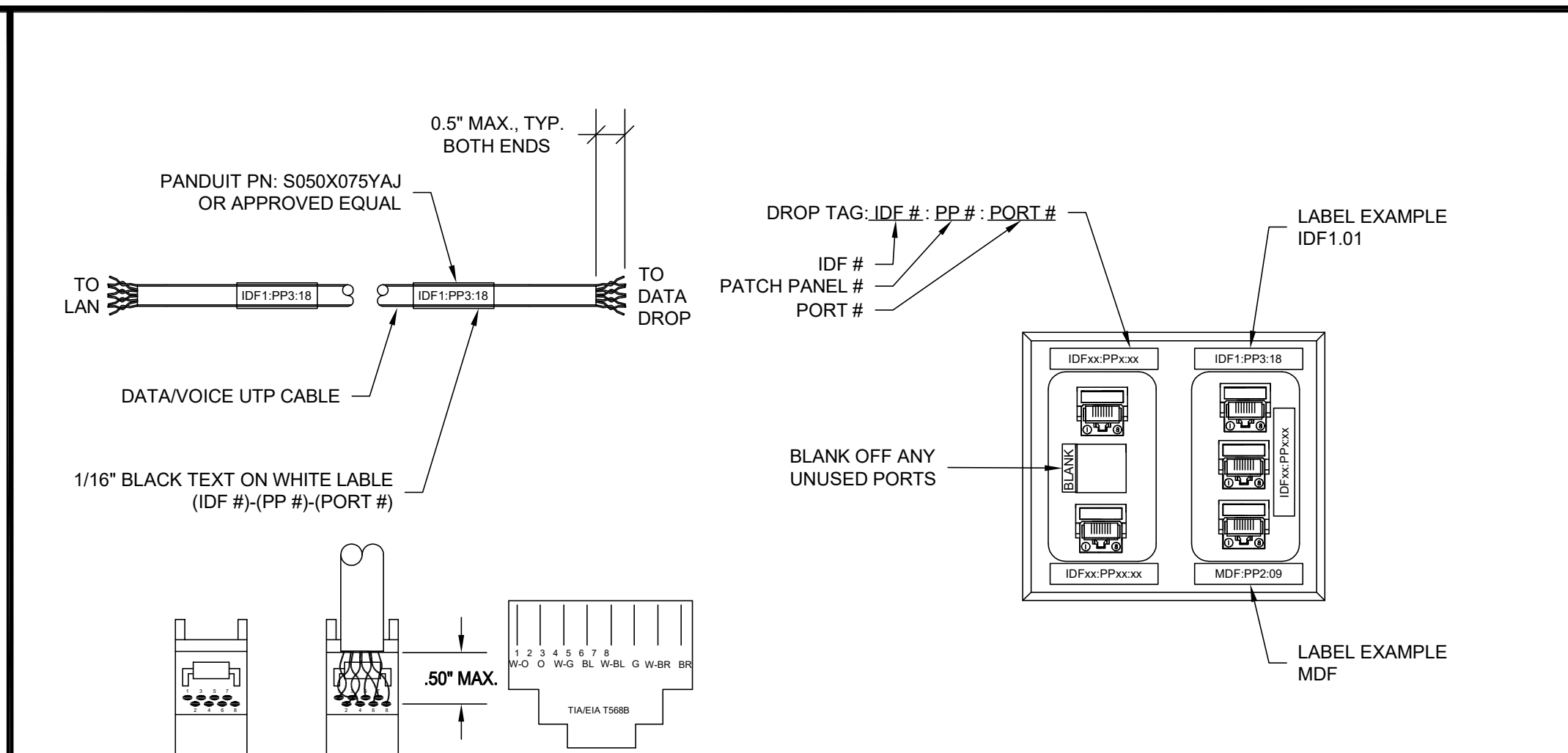
- 3 CONDUIT STRAP SPACING DETAIL
SCALE: NONE



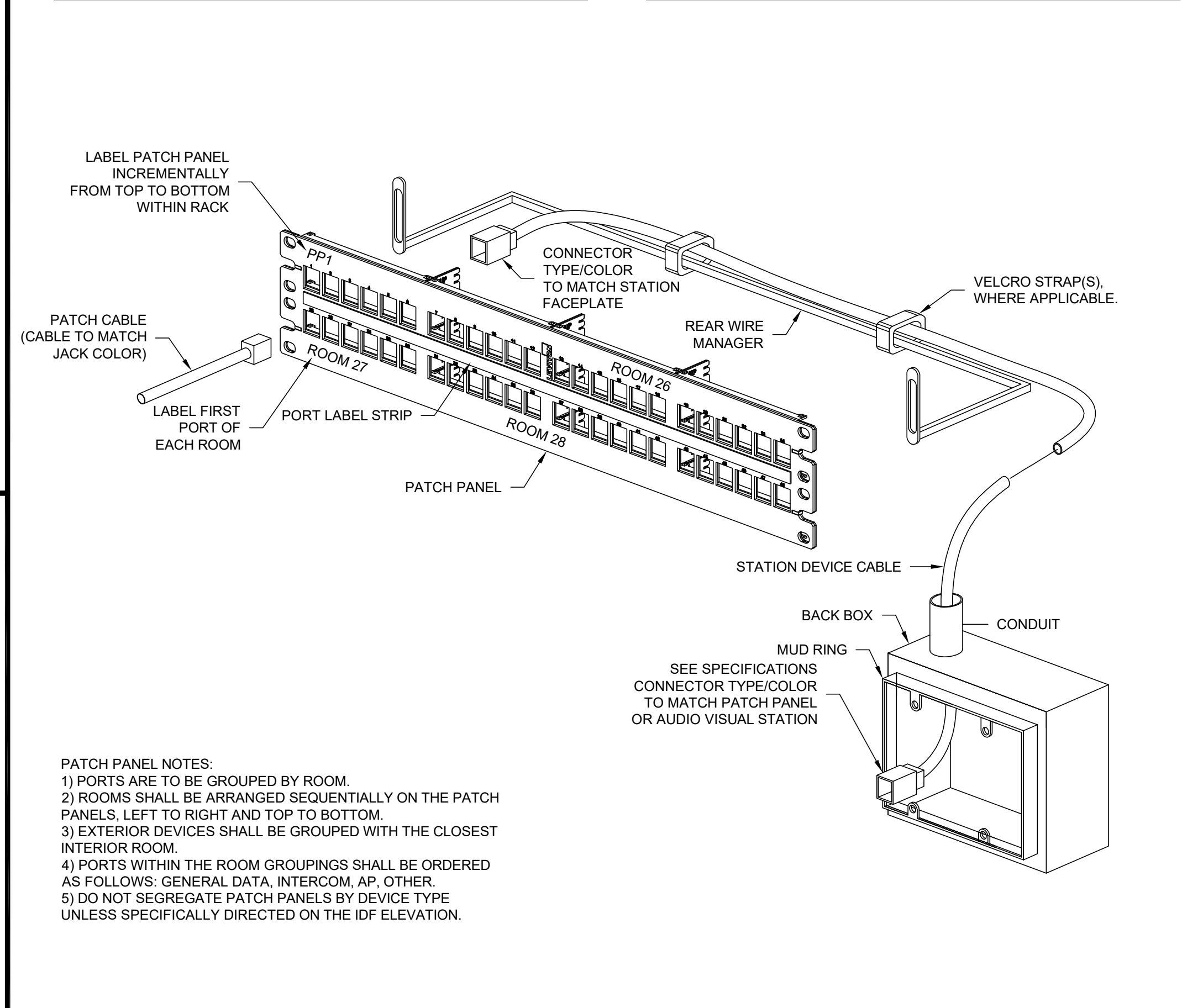
- 2 CONDUIT SLEEVE PENETRATION DETAIL
SCALE: NONE



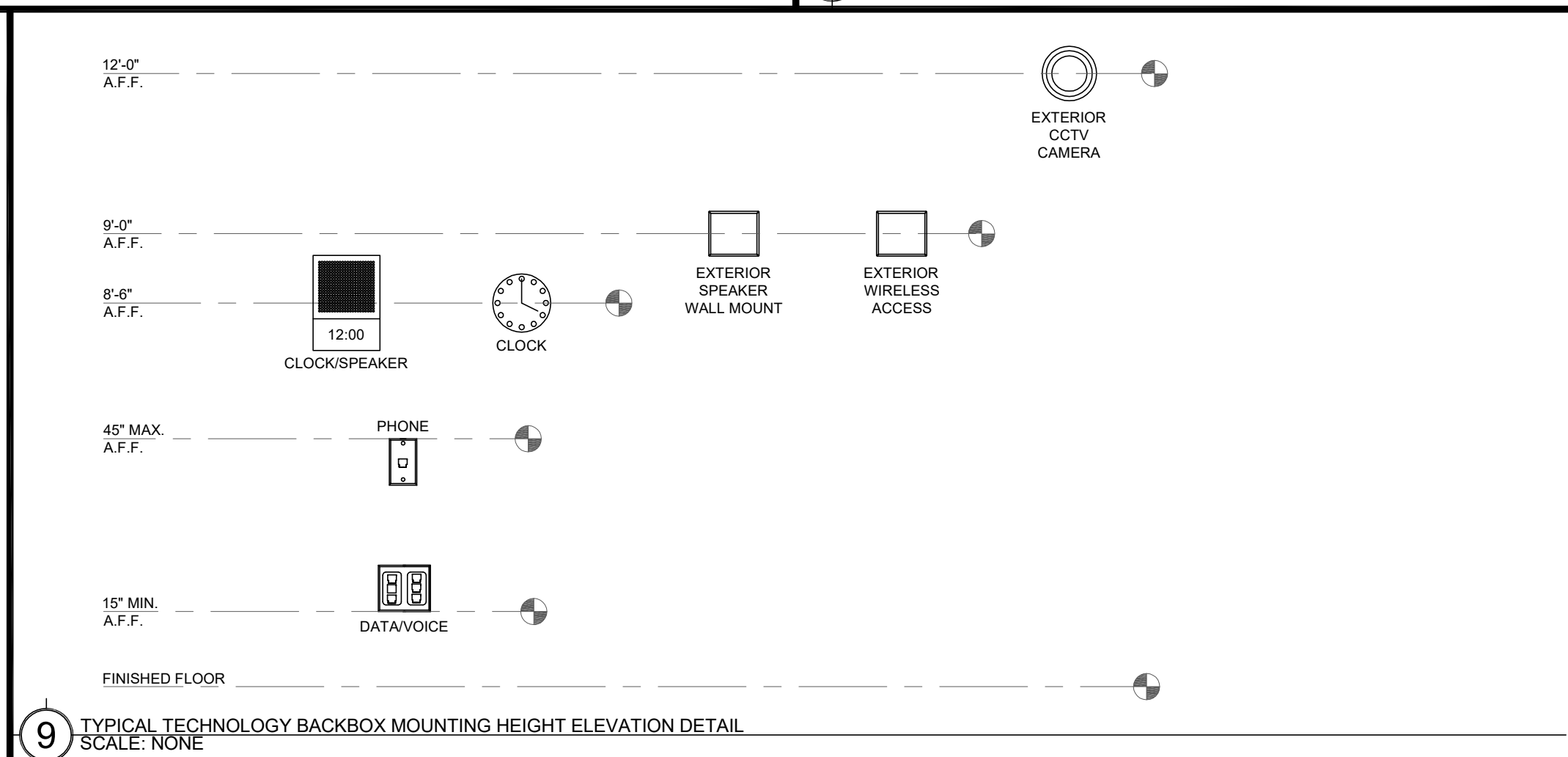
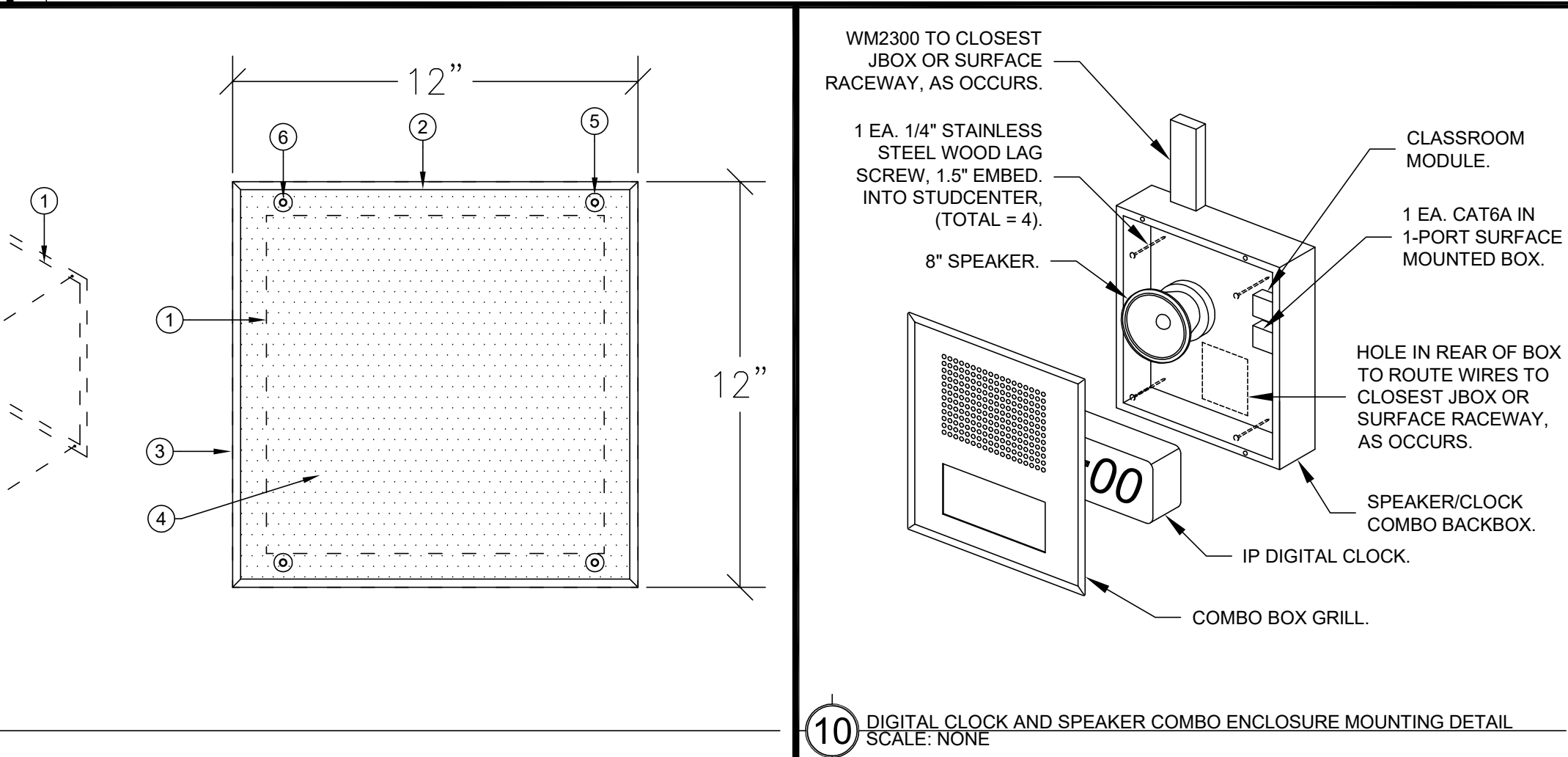
- 14 WIRELESS ACCESS POINT ON METAL T-BAR CEILING MOUNTING DETAIL
SCALE: NONE



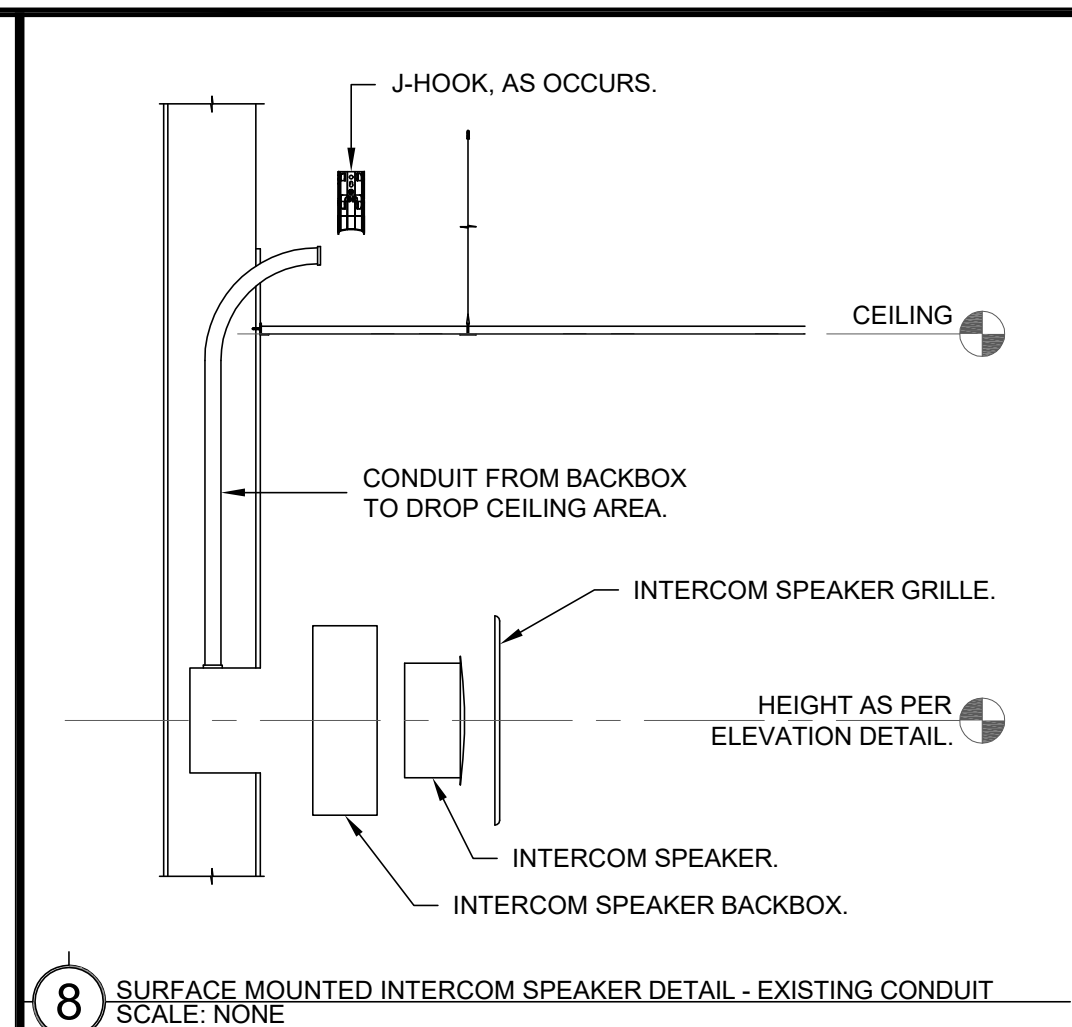
- DATA CABLE LABELING DETAIL - AT PATCH PANEL / END POINT
- DATA/ VOICE BACKBOX AND FACE PLATE DETAIL



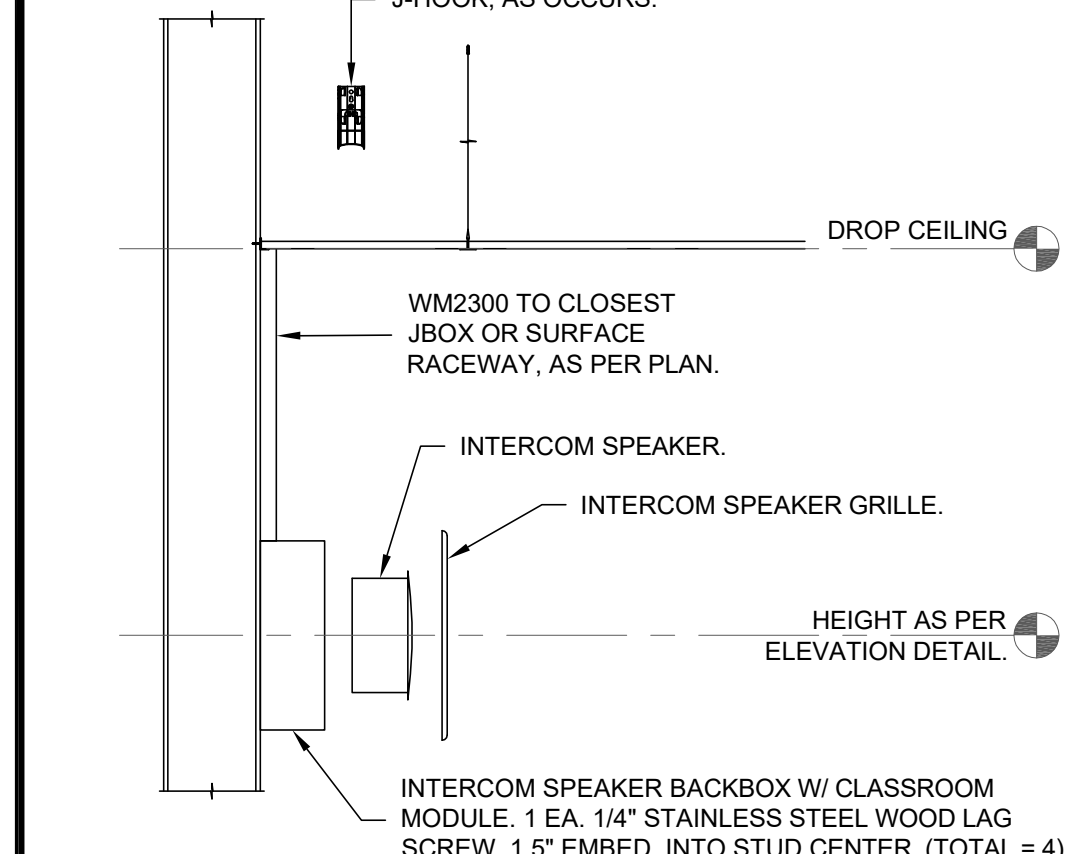
- 11 PATCH PANEL CONNECTION DETAIL - 2RU
SCALE: NONE



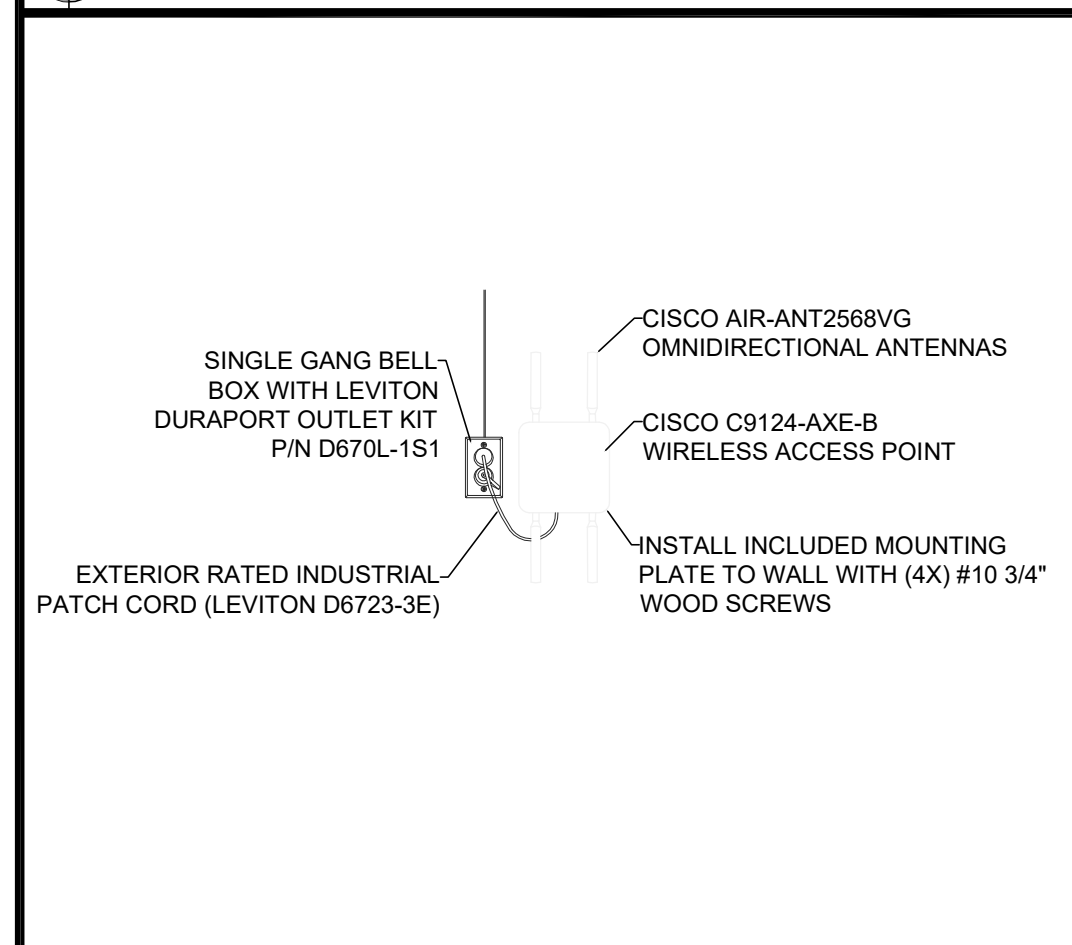
- 9 TYPICAL TECHNOLOGY BACKBOX MOUNTING HEIGHT ELEVATION DETAIL
SCALE: NONE



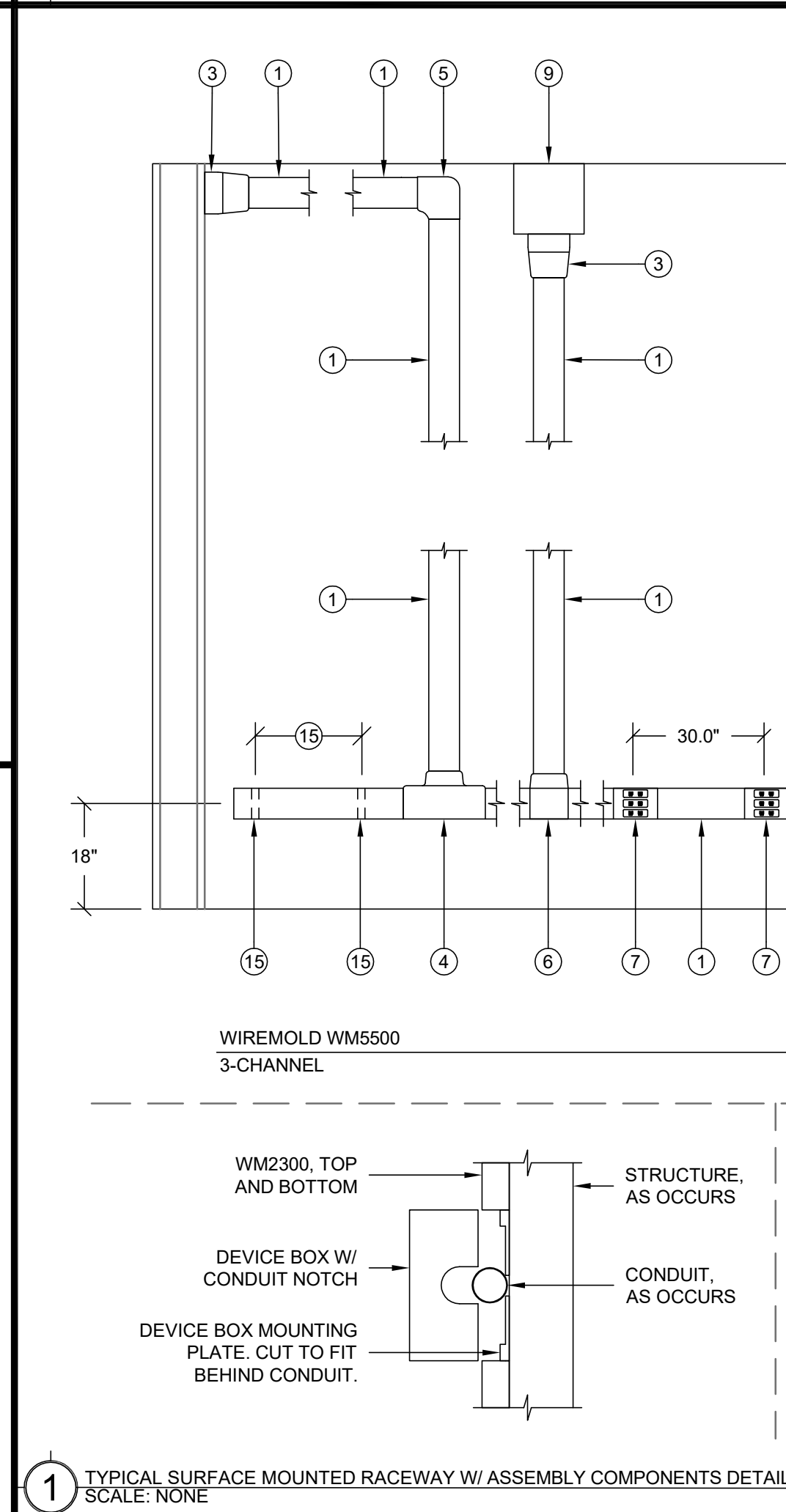
- 8 SURFACE MOUNTED INTERCOM SPEAKER DETAIL - EXISTING CONDUIT
SCALE: NONE



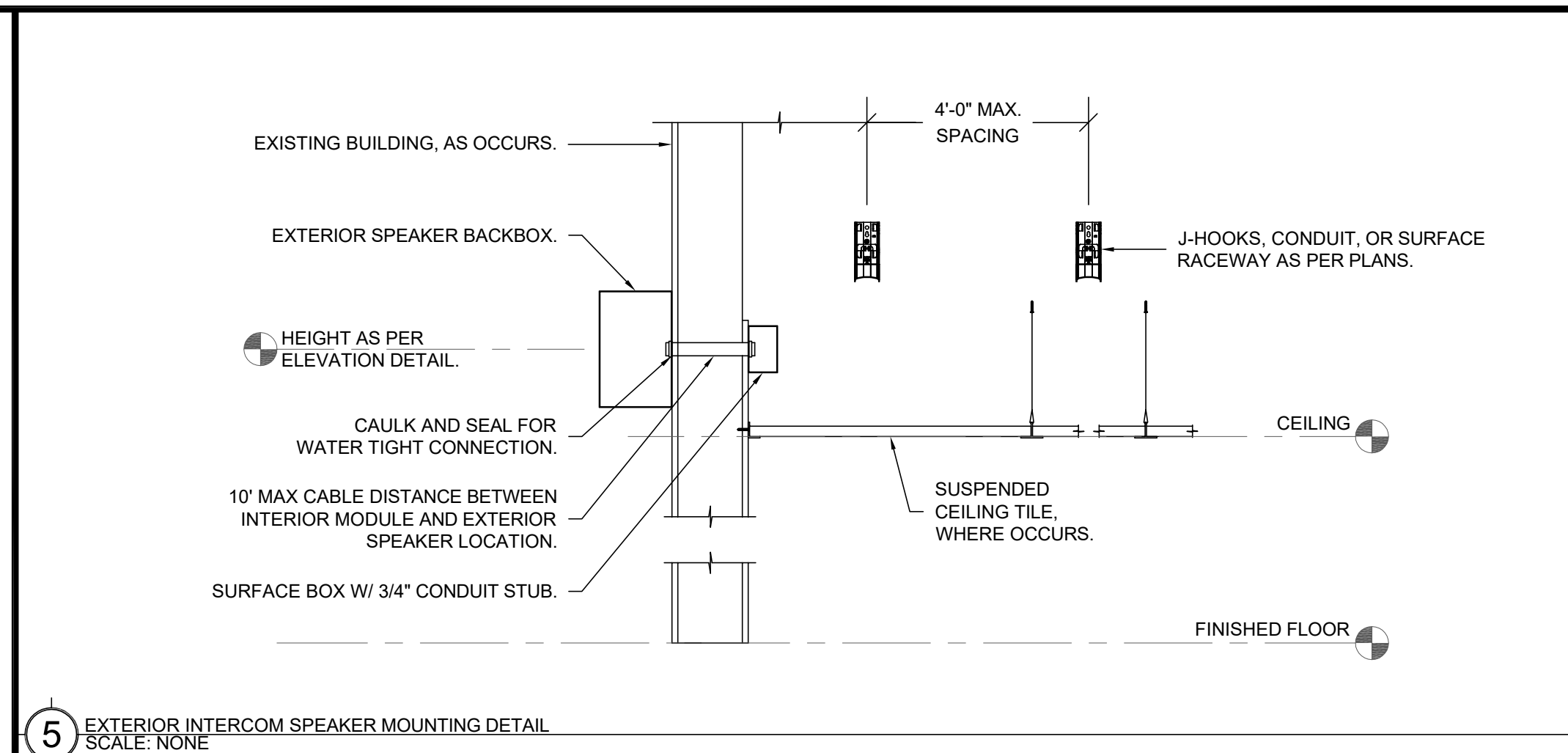
- 7 SURFACE MOUNTED INTERIOR INTERCOM SPEAKER DETAIL
SCALE: NONE



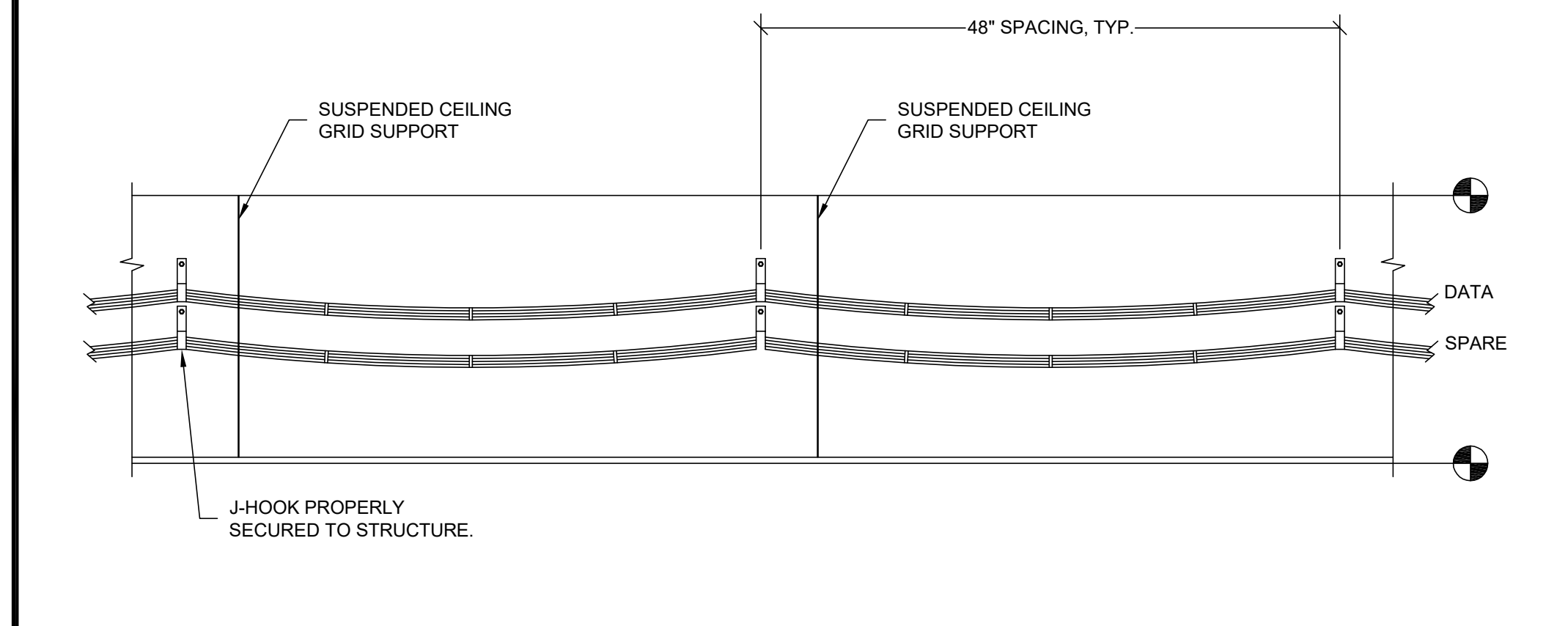
- 13 SURFACE MOUNTED INTERIOR INTERCOM SPEAKER DETAIL
SCALE: NONE



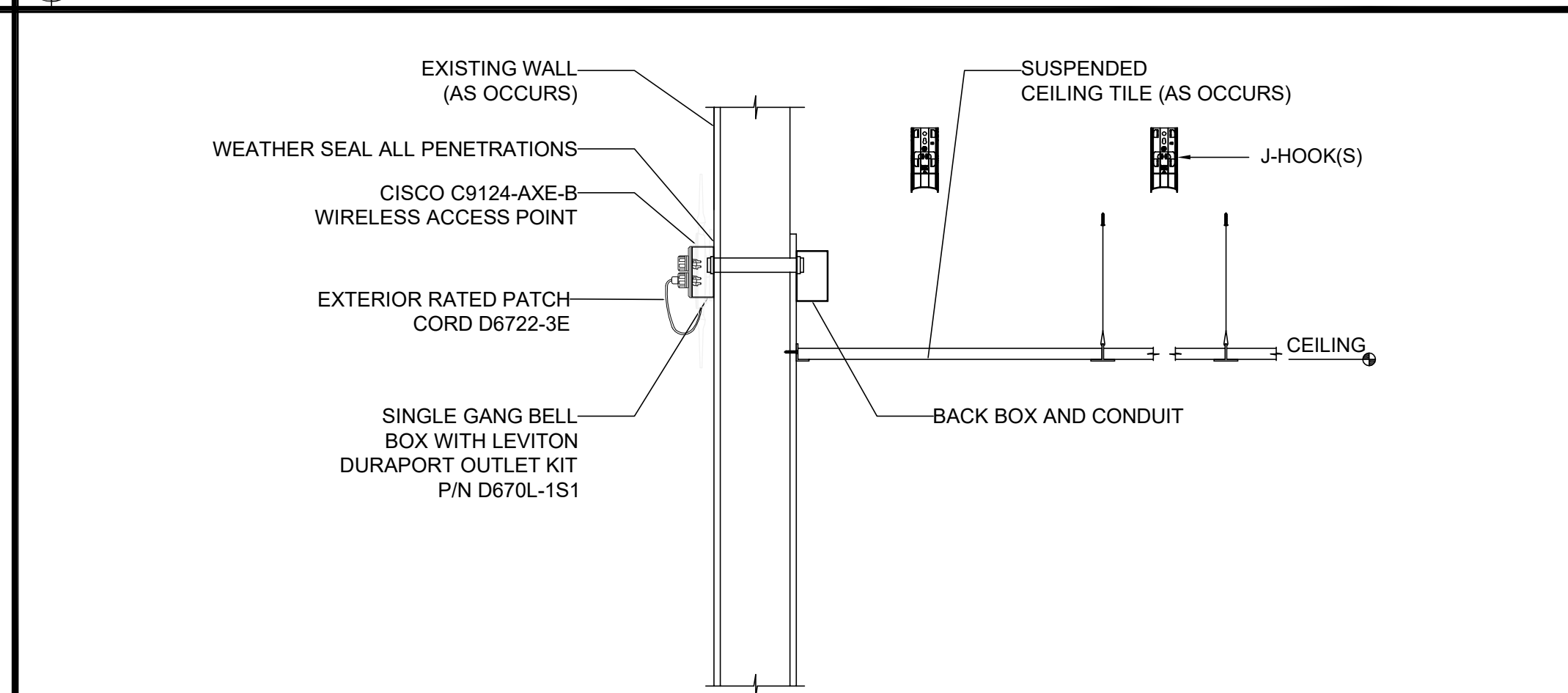
- 1 TYPICAL SURFACE MOUNTED RACEWAY W/ ASSEMBLY COMPONENTS DETAIL
SCALE: NONE



- 5 EXTERIOR INTERCOM SPEAKER MOUNTING DETAIL
SCALE: NONE



- 4 JHOOK PATHWAY ABOVE CEILING DETAIL
SCALE: NONE



- 12 EXTERIOR WIRELESS ACCESS POINT RETROFIT SECTION VIEW
SCALE: NONE

WIREMOLD SURFACE RACEWAY			
SYMBOL	DESCRIPTION	WM5500 PART NUMBER	WM2300 PART NUMBER
1	WIREMOLD WM5500	5500	N/A
2	WIREMOLD WM2300	N/A	2300
3	ENTRANCE END FITTING	5510D	2310A
4	FULL CAPACITY TEE (FIBER READY)	N/A	N/A
5	FULL CAPACITY FLAT ELBOW 90°	5511FO	2311DFO
6	TEE	5515	2315
7	DEVICE BRACKET W/ DUAL RJ FACEPLATE, DUPLEX FACEPLATE OR BLACK FACEPLATE AS NEEDED	5550 / 5507FRJ / 5507D / 5507B	5474 / 5574
8	TRANSITION FITTING FOR WM2300	5574	2348
9	WALL MOUNTED PULL BOX SIZE AS NOTED PER PLAN	N/A	2300
10	DEVICE BOX	N/A	2348
11	END CAP	5510	2310B
12	INTERNAL ELBOW	5517FO	2317DFO
13	EXTERNAL ELBOW	5518FO	2318DFO
14	BASE SEAM COVER	5506	2306
15	WIRE CLIP	5500WC (INSTALL CLIPS AT 48\"/>	2300WC (INSTALL CLIPS AT 48\"/>
16	TRANSITION FITTING FOR WM5500 TO WM5400	5574A	N/A

NOTE:
1) DEVICE BOX (10) TO BE USED TO TRANSITION OVER CONDUIT AND SHALLOW WALL OBSTRUCTIONS (I.E. BULLETIN BOARD, TRIM, CASEWORK, ETC.) WHERE REQUIRED. UNDER NO CIRCUMSTANCES SHOULD SURFACE RACEWAY BE BENT OVER OBSTRUCTIONS.

- 1 TYPICAL SURFACE MOUNTED RACEWAY W/ ASSEMBLY COMPONENTS DETAIL
SCALE: NONE



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PROJECT
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UNIFIED SCHOOL DISTRICT
WOODBINE ES
TELECENTER UPGRADE
2500 52ND AVENUE
SACRAMENTO, CA 95822

SHEET TITLE
TECHNOLOGY
DETAILS

DRAWING STATUS
CONSTRUCTION DRAWINGS

PROJECT NO:	0390-411
BID PACKAGE:	
DESIGNED BY:	CS
CHECKED BY:	SD
ISSUE DATE:	2025-08-26
WORKING DATE:	2025-08-26
REVISION	

SHEET
T800

ANSUL1479 (ASTM E814)		ANSUL1515
F Ratings - 2 and 4 Hr (See Item 3)		F Ratings - 2 and 4 Hr (See Item 3)
T Ratings - 3/4 and 1 Hr (See Item 3)		FT Ratings - 3/4 and 1 Hr (See Item 3)
L Rating At Ambient - Less Than 1", 2, 3, 4 or 7 CFM/Device Module (See Item 3)		FH Ratings - 2 and 4 Hr (See Item 3)
L Rating At 400° F - Less Than 1", 2 or 3 CFM/Device Module (See Item 3)		FH Ratings - 3/4 and 1 Hr (See Item 3)
		L Rating At Ambient - Less Than 1", 1.3, 4 or 7 CFM/Device Module (See Item 3)
		L Rating At 400° F - Less Than 1", 2 or 3 CFM/Device Module (See Item 3)

opening, the space between the freestop device and the periphery of the opening shall be 0 in. (point contact) to max 1/2 in. (13 mm) for the freestop device. Freestop devices shall be installed with the following minimum requirements:

- supplied with support. Steel wall plates installed on both sides of wall and secured to each device by means of steel set screws with lock washers. Each device shall be secured to the wall by means of the freestop device's mounting plate on each surface of the wall assembly. As an option, devices may be cast or grouted into wall penetrating. When device is cast or grouted into wall, the steel wall plate shall be cast or grouted into wall assembly in an equal distance projecting.

SPECIFIED TECHNOLOGIES INC. - EZ PATH System 33 Fire Rated Pathway

2A. **Freestop Device - Extension Module** - (Optional, Not Shown) - Module attached to ends of 33 Pathway (10 in. (76.2) by 2.5 in. (63.5) long freestop device (Item 3) to replace the need to facilitate installation in thicker walls. Each module consists of a 33 by 10 in. (76.2 by 254 mm) long galv steel wall plate with an intermount stainless steel fin. Extension module to be installed in accordance with the accompanying installation instructions. When module is used, freestop device (Item 2) and extension module (Item 3) shall be installed in place of freestop device (Item 1) and extension module (Item 4). Freestop devices and extension modules installed on both sides of wall and secured to each device or extension module(s) by means of steel set screws provided with wall plates. Freestop device and extension module(s) assembly to be installed with ends projecting an equal distance beyond each surface of the wall assembly.

SPECIFIED TECHNOLOGIES INC. - EZ PATH Extension

Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876
Represented subsidiary of Underwriters Laboratories, Inc.
Contract or Revised Jambol 1/20/2017

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WJ-3

3. **Cables** - Cables may represent a 0 to 100 percent visual fill within the leading area for each freestop device module. Cables must be rigidly supported on both sides of the wall assembly. Any combination of the following types of cables may be used:

- A. Max 400 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation.
- B. Max 350 kcmil single copper conductor power cable with XLPE jacket and insulation.
- C. Max 71C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
- D. Max 31C No. 10 AWG metal clad or armored cable with steel or aluminum jacket.
- E. Max 31C No. 8 AWG NM cable (Romex) with PVC insulation and jacket.
- F. Max four pair No. 22 AWG (or smaller) copper conductor data cable with PVC or plenum rated jacketing and insulation.
- G. Max RGU/ coaxial cable with fluorinated ethylene insulation and jacketing.
- H. Optical fiber cable with PVC or polyethylene (PE) jacket and insulation having a max diam of 5/8 in. (16 mm).

When Item 3A, 3B, 3C, 3D or 3E is used, the F and FH Ratings are 2 hr and the T, FT and FTH Ratings are 3/4 hr. When Item 200 pair No. 24 AWG telecommunication cable is used or when Item 3F, 3G or 3H is used, the F and FH Ratings are 4 hr and the T, FT and FTH Ratings are 1 hr.

The L Rating for each empty freestop device module is less than 1 cm at ambient and at 400F. When Item 3A is used, the L Rating for each freestop device module with 100 percent visual fill is 4 cm at ambient and 3 cm at 400F. When NM cable 3F is used, the L Rating for each freestop device module with 100 percent visual fill is 1.3 cm at ambient and less than 1 cm at 400F. When Item 3G or 3H is used, the L Rating for each freestop device module with 100 percent visual fill is 7 cm at ambient and 2 cm at 400F.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

																
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SHEET TITLE TECHNOLOGY FIRE STOP DETAILS																
DRAWING STATUS CONSTRUCTION DRAWINGS																
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