RFI No.: 1

Date: 11/9/26

Project: Compton Unified School District – Bid No. 27-003, FA & Communication Systems – Multisite

Site: Compton High School

Subject: Clarification of PA System Scope and Existing/New Equipment

Contract document references

- Bid Form, Document 00 41 13, p. 1, Bid Item 9A: "Mass Communication, Public Address & VoIP Systems"
- List of Drawings, Document 00 01 15, p. 8, Compton HS notes regarding the PA drawing packages and phase-specific CCDs
- Phase 1, Sheet TE1.01, Sheet Notes 1–4
- Phase 2, Sheet ES1.00, Keynote 13
- Phase 2, Sheet TE1.1, Keynote 10 and exterior PA speaker notes
- Phase 3, Sheet TE1.1A, Keynote 5

Background

Our understanding is that Compton High School is a newly constructed campus and that the PA devices and related equipment currently installed at the campus are existing. We understand that the new work at the Administration area is limited to the clocks/speakers indicated for that area.

However, the contract drawings also include notes to provide outdoor speakers at existing poles, provide a speaker at the fieldhouse, provide zone controllers and amplifiers in several rooms, and extend speaker wiring and amplifier/data connections to other buildings. The documents do not clearly identify all existing devices to remain versus new devices to be furnished and installed under this contract.

Request for clarification

Please confirm the complete Compton High School PA scope. Specifically:

1. Confirm whether the work is limited to installing the clocks and speakers in the Administration area, with all other campus PA equipment and wiring existing and to remain.
2. If additional work is required, provide a marked-up plan or device schedule identifying each PA device and related item as **existing to remain, new, remove, or relocate**, with its exact location and quantity.
3. Confirm whether the following items shown or called out on the referenced sheets are new work under this contract or existing equipment to remain:
    - APX40TN and FS12TEN-66 outdoor speakers mounted at existing poles.
    - APX40TN fieldhouse exterior speaker and connections to the athletic-field building IDF.
    - Zone controllers and amplifiers in Rooms IT 1G10, IT 1A39, IT 1C14, IT 1P10, and A116.
    - Amplifiers/data connections and speaker cabling to the visitor building and press box.
    - Associated cabling, terminations, power, and integration with existing PA head-end equipment.
4. Confirm the required connection or integration points with the campus's existing PA/VoIP system and identify any equipment to be furnished by the District.

Answers to questions above.
For question no.1 about work clarification in admin area as indicated on sheet TEA1.01. Work is to add PoE type combination PA speakers/clock as indicated on sheet TEA1.01, to match existing PA speaker/clock. Combination speaker / clock that are shown with 'CLOUDS' are to be added as part of this work. Other PA speakers and combination PA speakers / Clocks that are shown on drawing with NO CLOUDS ARE ALL EXISTING TO REMAIN, NIC. Work shall include network cabling, cabling terminations, additional patch panel as needed, patch cable, network switch, back boxes, cable supports and any ancillary devices and / or required system programming to add these PA speaker / clocks.

For question no. 2. Contractor to note that for Compton phase 1 project (DSA A #03-120849), we had issued the following drawings; TE1.01, TEA1.01, TEA1.02, TEA1.03, TEA1.04, TEA1.05, TEA1.06, TEA1.07, TEA1.08, TEA1.09, TEG1.01, TEG1.02, TEP1.01, TEP1.02, attached.
For Compton phase 2 project (DSA A #03-122901), we had issued the following drawings; ES1.00 and TE1.1. attached.
For Compton phase 3 project (DSA A #03-124615), we had issued the following drawings; TE1.1A and TE1.1B, attached.
PA speakers and combination PA speakers / clocks that are shown on bid drawings with 'CLOUDS' are to be added as part of this scope of work.
Other PA speakers and combination PA speakers / Clocks that are shown on drawings with NO CLOUDS ARE ALL EXISTING TO REMAIN, NIC.

For question no. 3. All PA speakers and PA combination speaker/clock indicated on bid documents shown with 'CLOUDS' ARE ALL NEW / to be added as part of this scope of work. No Exceptions. Specified outdoor speakers for this scope of work are all new / to be added as part of this scope of work. Work shall include network cabling, cabling terminations, additional patch panel as needed, patch cable, network switch, back boxes, cable supports, additional controllers, servers, amplifiers and any ancillary devices, and / or required system programming for a fully functional system. Coordinate with school district for any additional license from "ATLASIED" / "DANTE' if needed.

For question no.4 Integration of existing PA with VoIP phone system should be existing to remain but may need to expanded or modified to incorporate separate PA zones for these additional PA speakers. Field coordinate with school district if field verification is needed to determine existing PA system capacities, point of connections, and required additional equipment. Contractor to coordinate with school district technology person for access to network system, Ethernet IP address and network sub-net as needed.

PRODUCT SUBMITTAL

September 15, 2022

COMPTON HIGH SCHOOL (CHS)

Modernization

601 S. Acacia Ave.,

Compton, CA, 90220

iP Addressable Clock & speaker sys

SECTION #27 53 00

FFS #2064

General Contractor:

SWINERTON BUILDERS

200 North Main Street

Santa Ana, CA 92701

Tel. (949) 468 6133

Sub- Contractor

FFS TECH

6000 Venice Blvd.,

Los Angeles, CA 90034

Tel. (323) 965-9300

Fax (32) 965-2700

Combination PA speaker / clock. Provided for reference.

IP-SDMF

PoE+ Indoor IP Endpoint with Speaker, LCD, Microphone, and LED Flasher



ITEM 2,3,5,6 AND 8

Features

Network Features
- Dynamic or Static IP Address
- IEEE 802.3 10/100Base-T Ethernet
- IEEE 802.1q Tagging
- IEEE 802.3at Compliant

Audio Codec Support
- G.711 u-law / a-law (16 kbit/s)
- G.722 Wideband Audio (64 kbit/s)

Auto Provisioning
- DHCP Option 66, 150, for TFTP Server
- DHCP Option 72 for HTTP Server

Auto Registration
- SLP for InformaCast
- DHCP Option 72 for Syn-Apps' Revolution

Static Configuration
- HTTP GUI for Static Configuration

Audio Features
- Integrated Amplifier
- Aux Audio Line-In Balanced (2.8Vpp 10K)
- Aux Audio Line-Out Balanced (2.8Vpp 10K)

Additional Features
- 2 General Purpose Inputs
- Cisco SRST
- 1 Relay Output (2A @ 30 VDC)
- Phone / Night Loud Ringer
- External Power Supply Option
- LCD for Clock / Date and Scrolling Text
- Front Panel LED Flashers Allow for ADA Compliance
- Integrated Microphone Allows for Half-Duplex or Full-Duplex Paging Based on Software Platform Used

General Description

AtlasIED IP-SDMF is an indoor wall mount IP endpoint with speaker, integrated talkback microphone, LCD and LED flasher. It compliments the Unified Communications (VoIP Communications) investment including on-premises and hosted infrastructure platforms so that information can be pushed to spaces beyond the world of desktop telephony communication and breaking any traditional audio-path barriers.

Applications

AtlasIED IP-SDMF registers as a communication endpoint directly within InformaCast, GCK, and Syn-Apps' Revolution advanced notification applications, supporting audio broadcast to enhance physical security while improving day-to-day communications through advanced alerting, bell schedules, pre-recorded & scheduled announcements, while leveraging the WAN or LAN network architecture.

When used within a Cisco environment, the IP-SDMF speakers can join Cisco's Unified Survivable Remote Site Telephony (SRST) as a supported device. Cisco's SRST provides remote location call-processing redundancy when access to the centralized Cisco Unified Communications Manager is interrupted because of a WAN outage. The ability of LAN communication between any combination of phones and speakers is particularly critical during an emergency (which may be the actual cause of the WAN outage).

Where 3rd party notification applications are not required, the IP-SDMF speakers can register as SIP devices directly to a SIP server or VoIP Communications Manager for critical alerts, intercom and public address applications.

Under Title II of the ADA, all state and local governments are required to take steps and ensure effective communication to people with disabilities. The AtlasIED IP-SDMF IP speakers with talkback microphone, LCD display and LED flasher provide effective communication for all individuals.

Combination PA speaker / clock. Provided for reference.

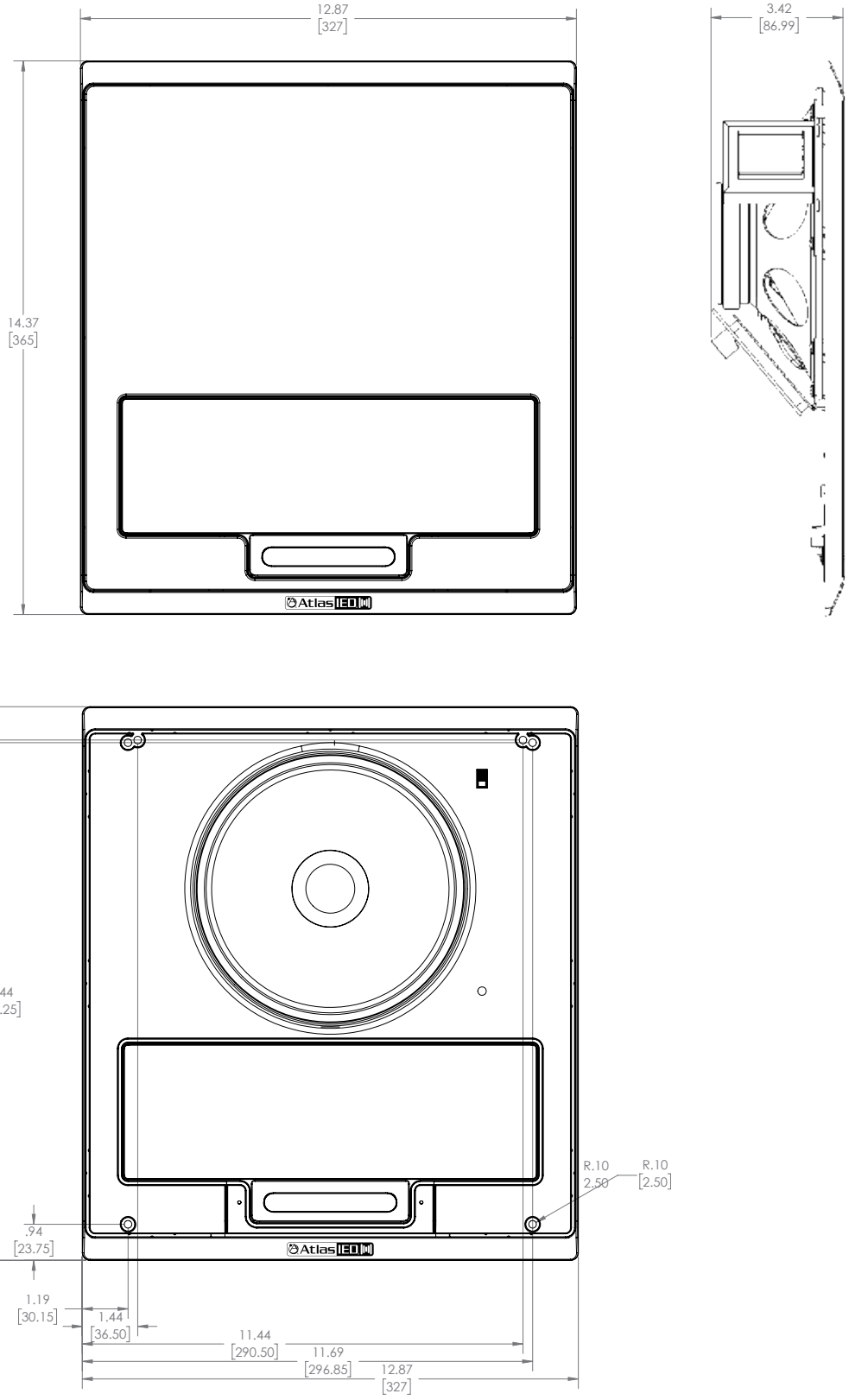
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System	
Type	PoE+ Indoor IP Speaker System with LCD Display, Microphone and LED Flasher
Indicators	Network Status (On Back)
Frequency Response (+/- 5dB)	86Hz - 15.5kHz
Vertical Coverage	105° (2kHz Octave Band, -6dB Points)
Horizontal Coverage	105° (2kHz Octave Band, -6dB Points)
Directivity Factor (Q)	17 @ 2kHz
Max SPL at 1m (Passive)	110dB SPL Continuous
General Purpose Interface	Two Trigger Inputs / One Relay Output (2A @ 30 VDC)
Transducers	
LF Transducer Qty and Size	(1) 8" (203mm)
HF Transducer Qty and Size	(1) 3" (76mm)
HF Crossover Frequency	2,800Hz, First Order
Voice Coil Size	1" (25mm)
Cone Material	Curvelinear, Treated Industrial Paper
Sensitivity	98dB SPL Average
Amplification	
Type	Single-Channel Class D Topology with Primary and Secondary Outputs
AC Power Input	PoE+ and External 24VDC
Power Rating (RMS)	25 Watts Max (802.3AT)
THD	<0.2%
Cooling	Passive / Convection
Driver Protection	Built-In Limiter
Microphone	
Sensitivity	Minus 35 (±4dB) / (0db = 1V/pa, 1kHz)
Impedance	Less than 2.2kΩ
Directivity	Omnidirectional
Frequency Range	20Hz – 20kHz
Standard Operation Voltage	2V
Max. Operation Voltage	10V
Current Consumption Max.	0.5 mA
Sensitivity Reduction Within	Minus 3dB @ 1.5V
S/N Ratio	More than 62dB
Audio Inputs and Outputs	
Input: Analog Audio Type(s)	One Balanced Line Level
Input: Analog Connectivity	Secured Screw Terminal Block
Input: Network Audio Type(s)	G.711 U-Law / A-Law and G.722 Capable
Input: Network Connectivity	RJ-45 Female
Output: Analog Audio Type(s)	One Balanced Line Level
Output: Analog Connectivity	Secured Screw Terminal Block
Output: Digital Audio Type(s)	G.711 U-Law / A-Law and G.722 Capable (Multicast)
Output: Digital Connectivity	N/A
Output: Speaker Level	8Ω, 25W (802.3AT)
Output: Speaker Connectivity	Primary and Slave Secured Screw Terminal Block

Combination PA speaker / clock. Provided for reference.

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Dimensional Drawings



Combination PA speaker / clock. Provided for reference.

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417 W. Alondra Blvd,
Compton, CA, 90220

SWINERTON

Submittal Record

Date: April 27, 2023

CUMMING MANAGEMENT GROUP, INC.
25220 HANCOCK AVE., STE. 440,
MURRIETA, CA, 92562

Attn: Eric Brooks

Submittal #	275300-002.2
Cycle	3
Sub-Section	
Description	IP Addressable Clock Speaker System
Type	Data
Status	Submitted
Copies	
Subcontractor	FIRST FIRE SYSTEMS, INC.
Contact Name	Kenia Velasco
Returned Due Date	05/15/2023

Submittal Stamp			
Swinerton Builders			
Submittal # 275300-002.2			
Submittal was reviewed for design conformity and general conformance to Contract documents only. The Contractor has reviewed this submittal as outlined in Specification 013300, Section 3.01 Procedures. Any discrepancy or variation in the contract documents will be submitted via request for information (RFI) for clarification. Incomplete information/dimensions will be provided for design team validation on these submittals.			
By	*SM/SB*	Date	4/27/2023

Comments: SB: Please note, the latest submittal revision #275300-002.2 contains blue clouds where design team had made mark-ups to revise and correct. The blue clouds indicate subcontractor corrections.

STAMPS:

DLR Group

X REVIEWED
__ REVIEWED – ADDITIONAL INFORMATION REQUIRED
__ FURNISH AS CORRECTED
__ REVISE AND RESUBMIT
__ REJECTED
__ NOT REVIEWED

This review is for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. Review of submittals is not for the purpose of determining the accuracy and completeness of other information such as dimensions, quantities, and installation or performance of equipment or systems, which are the Contractor's responsibility. The Architect's review shall not constitute approval of safety precautions or construction means, methods, techniques, sequences or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component. The Architect's comments, notes or corrections are not an authorization to proceed with Work involving a change in the Contract Sum, the Contract Time or both. If any portion of this review requires a change to the Work, an appropriate change instrument must be executed in accordance with the Contract Documents.

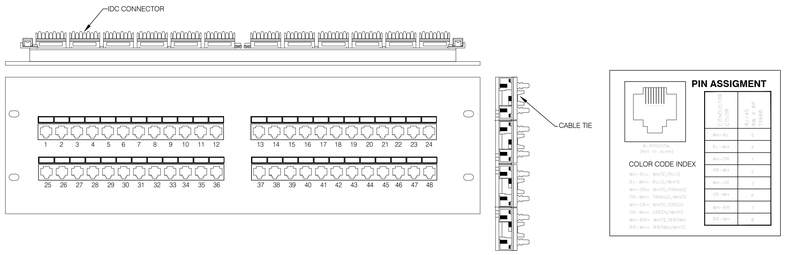
DLR Group

Date: MARK EGBERT
By: 05/04/2023

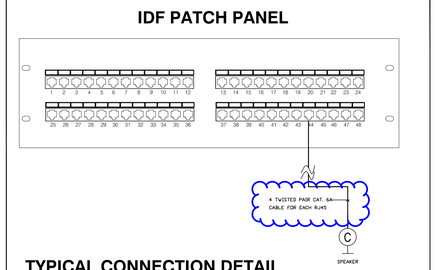
Sincerely,

Stephanie Montenegro
Swinerton Builders

Combination PA speaker / clock. Provided for reference.



BERK-TEK CATEGORY 6A MODULAR-IDC PATCH PANEL 48-PORT



TYPICAL CONNECTION DETAIL
BERK-TEK Connection System

SYMBOL LEGEND

SYMBOL	DESCRIPTION
Ⓒ ATLAS IED - IP-SDMF, WITH IP-SEA-SD	WALL MOUNTED IP (POE) CLOCK/SPEAKER CONTRACTOR TO PROVIDE NEW CATEGORY 6A UTP CABLE FROM TELCOM CLOSET/ROOM TO OUTLET LOCATION AS SHOWN AND TERMINATE WITH RJ45 PLUG

PROJECT SPECIFIC NOTES:

1– *REFER TO EQUIPMENT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING EQUIPMENT USED ON THIS PROJECT.*

2– *PENETRATION TO FIRE RATED ASSEMBLY TO BE FIRE STOPPED WITH AN U.L. APPROVED METHOD.*

3– *PLANS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR TO INSTALL AND ROUTE CONDUITS AS FIELD CONDITIONS DICTATE. CONTRACTOR TO REPORT ANY DEVIATIONS ON "RECORD DRAWINGS" AND RETURN TO ENGINEER FOR APPROVED.*

ANSI/TIA/EIA 569–A CONDUIT

DESIGN AND INSTALL CONDUIT RUNS TO HAVE:

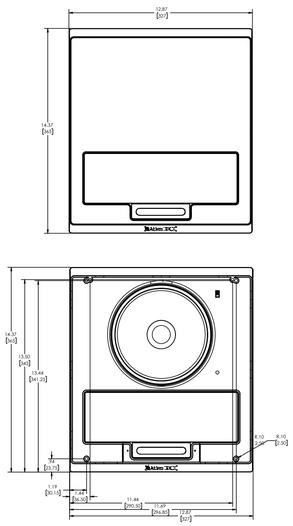
NO MORE THAN TWO 90 DEG. BEND.
NO SECTIONS LONGER THAN 100FT.
IN RUNS TOTAL MORE THAN 100FT., INSERT PULL BOXES SO THAT NO SEGMENT BETWEEN PULL POINTS EXCEEDS THE 100FT. LIMIT.
BONDED TO GROUND IN ACCORDANCE WITH NATIONAL OR LOCAL REQUIREMENTS

GENERAL NOTES:

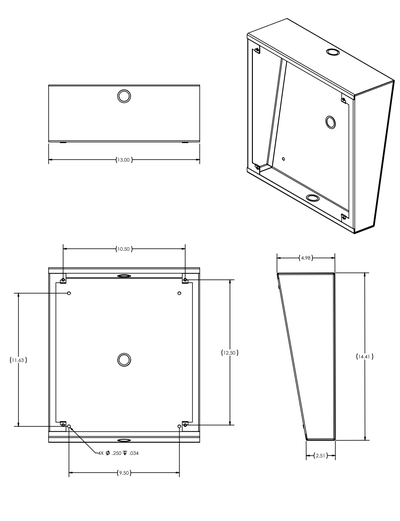
1. *THE FOLLOWING GENERAL NOTES ARE APPLICABLE AS STATED BELOW, EXCEPT WHERE SPECIFICALLY INDICATED AND NOTED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS.*
2. *SINGLE LINE DIAGRAMS, ELEVATIONS, SCHEMATICS AND DETAILS SHOWN HEREIN ARE CONCEPTUAL AND ILLUSTRATE ONLY THE FUNCTIONAL RELATIONSHIPS BETWEEN SYSTEM(S) CONPONENTS AND THE DESIGN INTENT OF THE PROJECT.*
3. *REFERENCE EQUIPMENT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING EQUIPMENT AND MATERIALS USED ON PROJECT.*
4. *MINIMUM CONDUIT SIZE SHALL BE 1 1/4" UNLESS OTHERWISE NOTED.*
5. *PENETRATION(S) TO ANY FIRE RATED ASSEMBLY SHALL BE FIRE STOPPED WITH APPROVED U.L. LISTED FIRE STOP MATERIAL. INSTALLATION AND APPLICATION OF FIRE STOP MATERIAL, PER MANUFACTURERS INSTRUCTIONS.*
6. *DEVICE LOCATIONS AS NOTED ON PLANS ARE NEW AND/OR EXISTING AND CONCEPTUAL. CONTRACTOR SHALL LOCATE DEVICES AS SITE CONDITIONS REQUIRE AND AS APPROVED BY THE OWNER/ENGINEER.*
7. *REFERENCE SPECIFICATIONS FOR ADDITIONAL SYSTEM REQUIREMENTS AND SCOPE OF WORK.*
8. *DOOR DETAILS ILLUSTRATE FUNCTIONAL RELATIONSHIPS, ACTUAL ARCHITECTURAL CONDITIONS (DIRECTION OF SWING, HAND OF DOOR) MAY VARY AND SHALL BE FIELD VERIFIED.*
9. *PAINTING, PATCHING AND FINISHES FOR ALL DEVICES LOCATED IN EXISTING AREAS SHALL MATCH EXISTING FINISHES AND MUST BE APPROVED AND COORDINATED WITH THE OWNER/ENGINEER.*
10. *WORKMANSHIP AND MATERIALS WILL CONFORM TO MOST CURRENT UNIFORM BUILDING CODE (UBC) STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AS FURNISHED BY THE CONTRACT DRAWINGS. WORKMANSHIP AND MATERIALS NOT IN CONFORMANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE SUBJECT TO REMOVAL AND/OR REPLACEMENT AT CONTRACTOR'S EXPENSE.*

CABLE SYMBOL

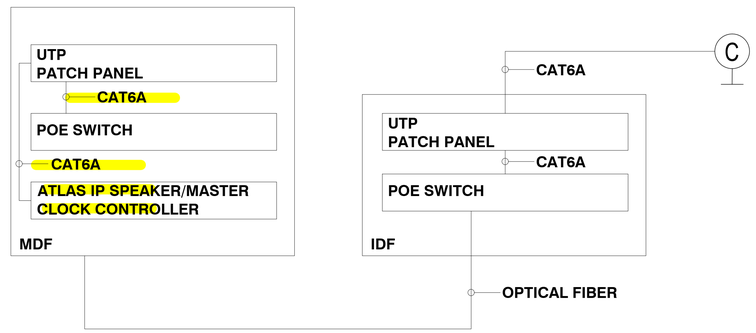
SYMBOL	WIRE TYPE
PA	CAT6A CABLE BELDEN 10GXS13 DATA – PLENUM



ATLAS IED - IP-SDMF



ATLAS IED - IP-SEA-SD



IP SPEAKER/CLOCK BLOCK RISER DIAGRAM

Combination PA speaker / clock. Provided for reference.

FFSTECH
BUILDING INTEGRATED SYSTEMS
C-10 & C-7 LIC. #541227
C-16 LIC. #816187
ALARM LIC. #ACO 4380
REG. 4 CERTIFIED
UL S4755-1
6000 VENICE BOULEVARD, LOS ANGELES ,CALIFORNIA 90044 (323) 965-9300 Fax: (323) 965-2700

COMPTON HIGH SCHOOL

601 S ARCADIA AVE, COMPTON, CA. 90220

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Issue Date: 11/21/2022

Revisions

No.	Date	Description
1	11/21/2022	SHOP DRAWING SUBMITTAL
2	01/10/2023	SHOP DRAWING RESUBMITTAL
2	04/11/2023	SHOP DRAWING RESUBMITTAL

CONSULTANT ' S SEAL

D.S.A. APPLICATION NO.: 03-120849

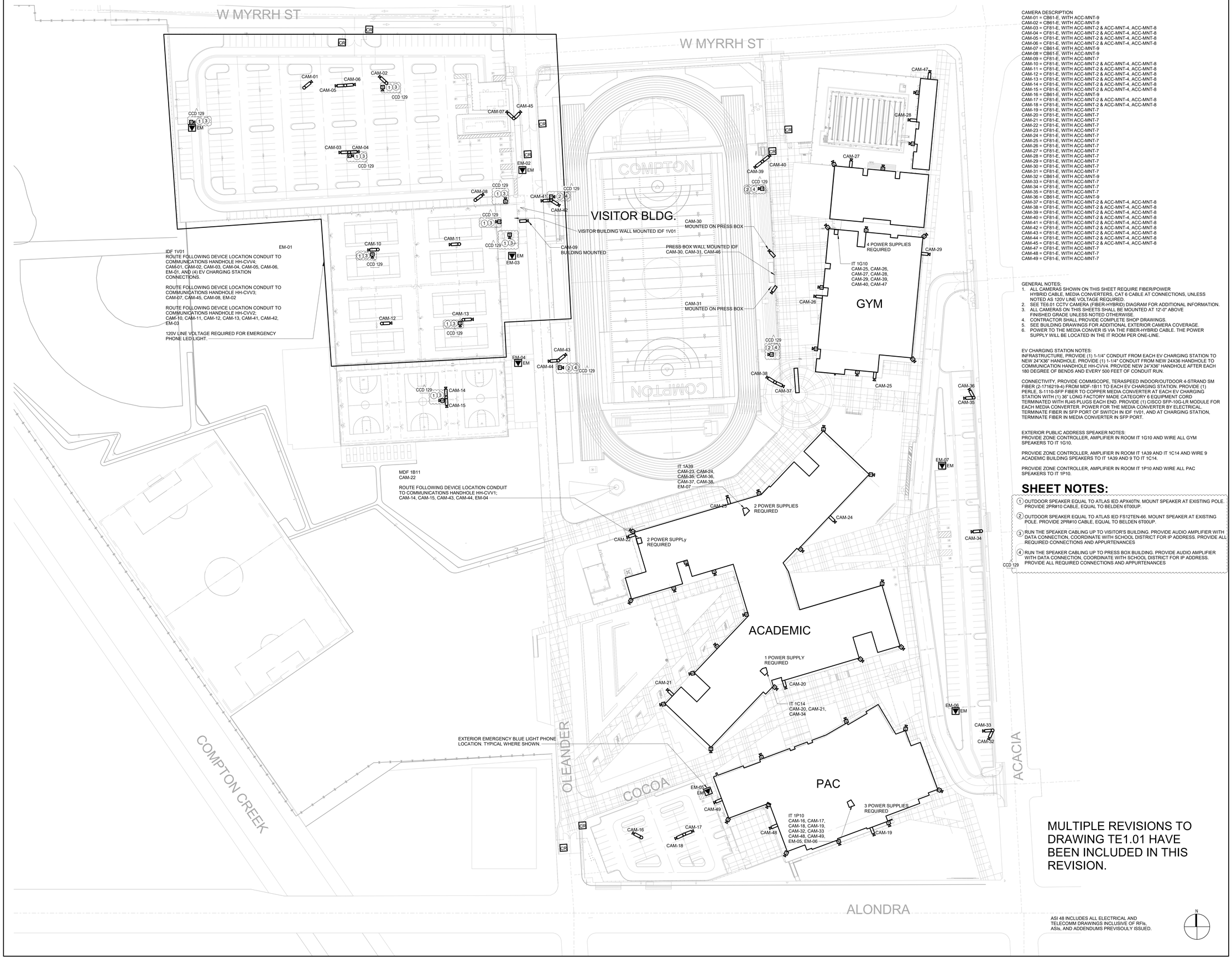
Project Number: Drawn By: RTE

Checked By: Project Manager: RP

Sheet Title:
SYMBOL LIST, BILL OF MATERIAL, WIRE SCHEDULE, MISCELLANEOUS DETAILS

Sheet Number:

PA-0.01



CAMERA DESCRIPTION
CAM-01 = C861-E, WITH ACC-MNT-9
CAM-02 = CB61-E, WITH ACC-MNT-9
CAM-03 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-04 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-05 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-06 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-07 = C861-E, WITH ACC-MNT-9
CAM-08 = CB61-E, WITH ACC-MNT-9
CAM-09 = CF81-E, WITH ACC-MNT-7
CAM-10 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-11 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-12 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-13 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-14 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-15 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-16 = CB61-E, WITH ACC-MNT-9
CAM-17 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-18 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-19 = CF81-E, WITH ACC-MNT-7
CAM-20 = CF81-E, WITH ACC-MNT-7
CAM-21 = CF81-E, WITH ACC-MNT-7
CAM-22 = CF81-E, WITH ACC-MNT-7
CAM-23 = CF81-E, WITH ACC-MNT-7
CAM-24 = CF81-E, WITH ACC-MNT-7
CAM-25 = CF81-E, WITH ACC-MNT-7
CAM-26 = CF81-E, WITH ACC-MNT-7
CAM-27 = CF81-E, WITH ACC-MNT-7
CAM-28 = CF81-E, WITH ACC-MNT-7
CAM-29 = CF81-E, WITH ACC-MNT-7
CAM-30 = CF81-E, WITH ACC-MNT-7
CAM-31 = CF81-E, WITH ACC-MNT-7
CAM-32 = CB61-E, WITH ACC-MNT-9
CAM-33 = CF81-E, WITH ACC-MNT-7
CAM-34 = CF81-E, WITH ACC-MNT-7
CAM-35 = CF81-E, WITH ACC-MNT-7
CAM-36 = CB61-E, WITH ACC-MNT-9
CAM-37 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-38 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-39 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-40 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-41 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-42 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-43 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-44 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-45 = CF81-E, WITH ACC-MNT-2 & ACC-MNT-4, ACC-MNT-8
CAM-47 = CF81-E, WITH ACC-MNT-7
CAM-48 = CF81-E, WITH ACC-MNT-7
CAM-49 = CF81-E, WITH ACC-MNT-7

GENERAL NOTES:
1. ALL CAMERAS SHOWN ON THIS SHEET REQUIRE FIBER/POWER HYBRID CABLE, MEDIA CONVERTERS, CAT 6 CABLE AT CONNECTIONS, UNLESS NOTED AS 120V LINE VOLTAGE REQUIRED.
2. SEE TE6.01 CCTV CAMERA (FIBER-HYBRID) DIAGRAM FOR ADDITIONAL INFORMATION.
3. ALL CAMERAS ON THIS SHEETS SHALL BE MOUNTED AT 12'-0" ABOVE FINISHED GRADE UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL PROVIDE COMPLETE SHOP DRAWINGS.
5. SEE BUILDING DRAWINGS FOR ADDITIONAL EXTERIOR CAMERA COVERAGE.
6. POWER TO THE MEDIA CONVER IS VIA THE FIBER-HYBRID CABLE. THE POWER SUPPLY WILL BE LOCATED IN THE IT ROOM PER ONE-LINE.

EV CHARGING STATION NOTES:
INFRASTRUCTURE, PROVIDE (1) 1-1/4" CONDUIT FROM EACH EV CHARGING STATION TO NEW 24"X36" HANDHOLE. PROVIDE (1) 1-1/4" CONDUIT FROM NEW 24X36 HANDHOLE TO COMMUNICATION HANDHOLE HH-CVV4. PROVIDE NEW 24"X36" HANDHOLE AFTER EACH 180 DEGREE OF BENDS AND EVERY 500 FEET OF CONDUIT RUN.

CONNECTIVITY, PROVIDE COMMSCOPE, TERASPEED INDOOR/OUTDOOR 4-STRAND SM FIBER (2-17116219-4) FROM MDF-1B11 TO EACH EV CHARGING STATION. PROVIDE (1) PERLE, S-1110-SFP FIBER TO COPPER MEDIA CONVERTER AT EACH EV CHARGING STATION WITH (1) 36" LONG FACTORY MADE CATEGORY 6 EQUIPMENT CORD TERMINATED WITH RJ45 PLUGS EACH END. PROVIDE (1) CISCO SFP-10G-LR MODULE FOR EACH MEDIA CONVERTER. POWER FOR THE MEDIA CONVERTER BY ELECTRICAL. TERMINATE FIBER IN SFP PORT OF SWITCH IN IDF 1V01, AND AT CHARGING STATION, TERMINATE FIBER IN MEDIA CONVERTER IN SFP PORT.

EXTERIOR PUBLIC ADDRESS SPEAKER NOTES:
PROVIDE ZONE CONTROLLER, AMPLIFIER IN ROOM IT 1G10 AND WIRE ALL GYM SPEAKERS TO IT 1G10.

PROVIDE ZONE CONTROLLER, AMPLIFIER IN ROOM IT 1A39 AND IT 1C14 AND WIRE 9 ACADEMIC BUILDING SPEAKERS TO IT 1A39 AND 9 TO IT 1C14.

PROVIDE ZONE CONTROLLER, AMPLIFIER IN ROOM IT 1P10 AND WIRE ALL PAC SPEAKERS TO IT 1P10.

SHEET NOTES:

1. OUTDOOR SPEAKER EQUAL TO ATLAS IED APX40TN. MOUNT SPEAKER AT EXISTING POLE. PROVIDE 2PR#10 CABLE, EQUAL TO BELDEN 6T00UP.
2. OUTDOOR SPEAKER EQUAL TO ATLAS IED FS12TEN-66. MOUNT SPEAKER AT EXISTING POLE. PROVIDE 2PR#10 CABLE, EQUAL TO BELDEN 6T00UP.
3. RUN THE SPEAKER CABLING UP TO VISITOR'S BUILDING. PROVIDE AUDIO AMPLIFIER WITH DATA CONNECTION, COORDINATE WITH SCHOOL DISTRICT FOR IP ADDRESS. PROVIDE ALL REQUIRED CONNECTIONS AND APPURTENANCES
4. RUN THE SPEAKER CABLING UP TO PRESS BOX BUILDING. PROVIDE AUDIO AMPLIFIER WITH DATA CONNECTION, COORDINATE WITH SCHOOL DISTRICT FOR IP ADDRESS. PROVIDE ALL REQUIRED CONNECTIONS AND APPURTENANCES

MULTIPLE REVISIONS TO DRAWING TE1.01 HAVE BEEN INCLUDED IN THIS REVISION.

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Agency Approval

Client Stamp

Compton Unified School District
501 S. Santa Fe Avenue
Compton, CA 90221

CUSD No.:	16/17-5044
PTN No.:	73437-0140
File No.:	19-H7

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RE V.	DATE	DESCRIPTION
2	2/27/2028	CCD 129

Sheet

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DSA No.:	03-120849
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DATE:	02/15/2021

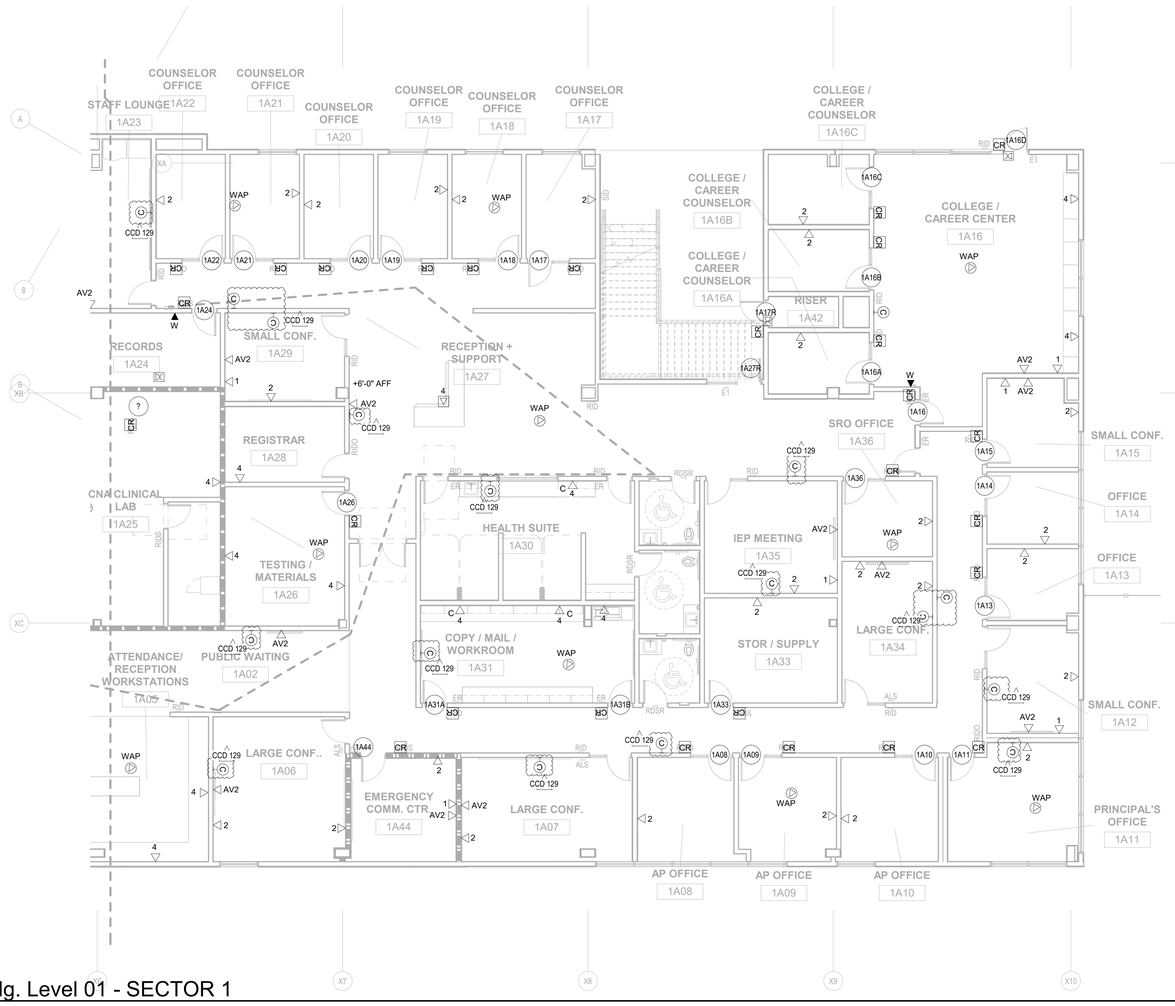
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TE1.01

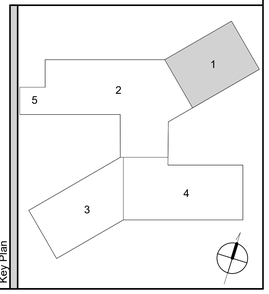
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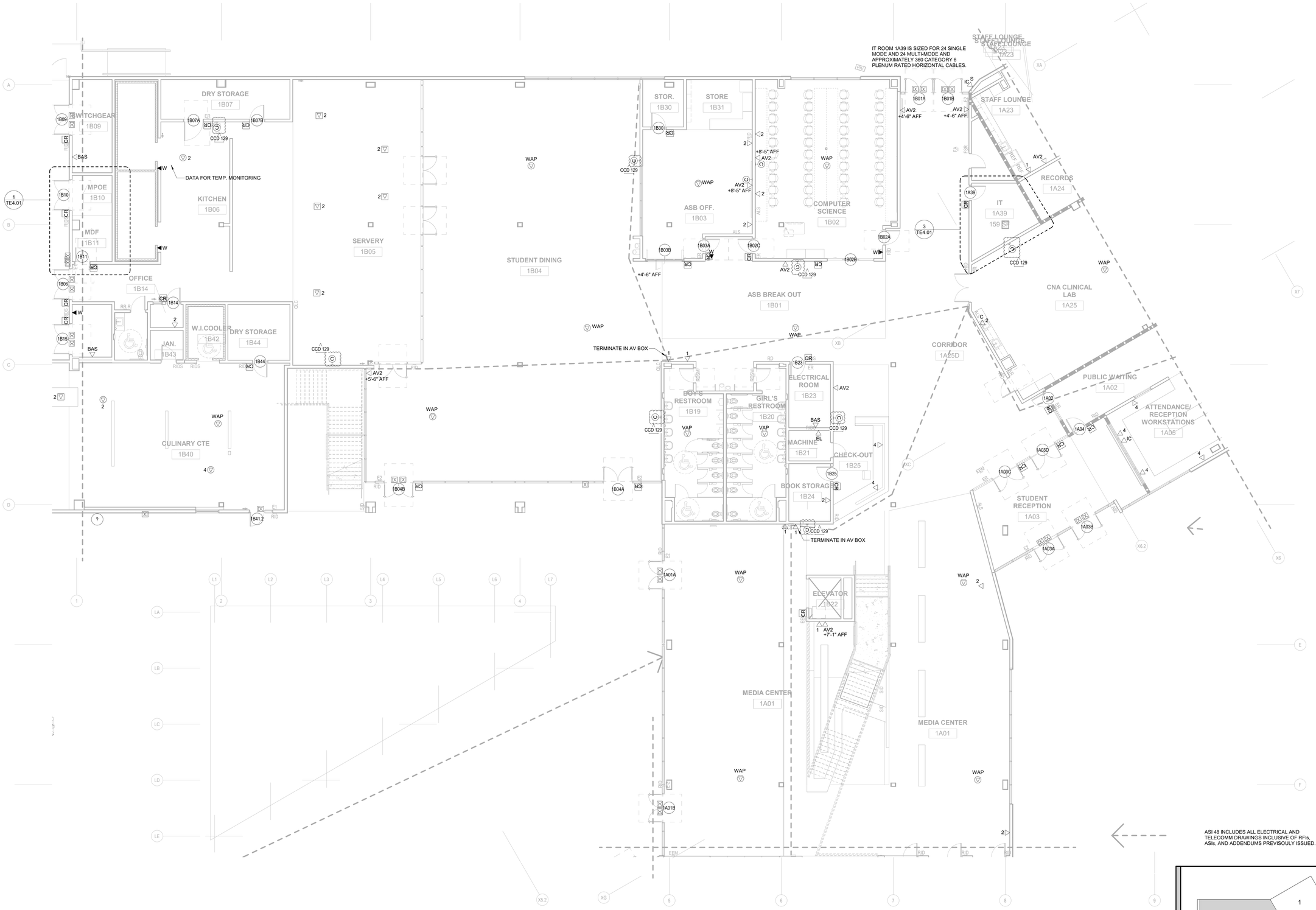
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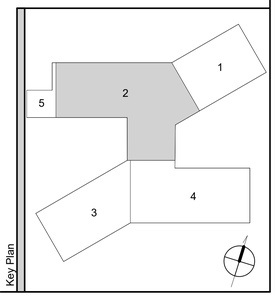
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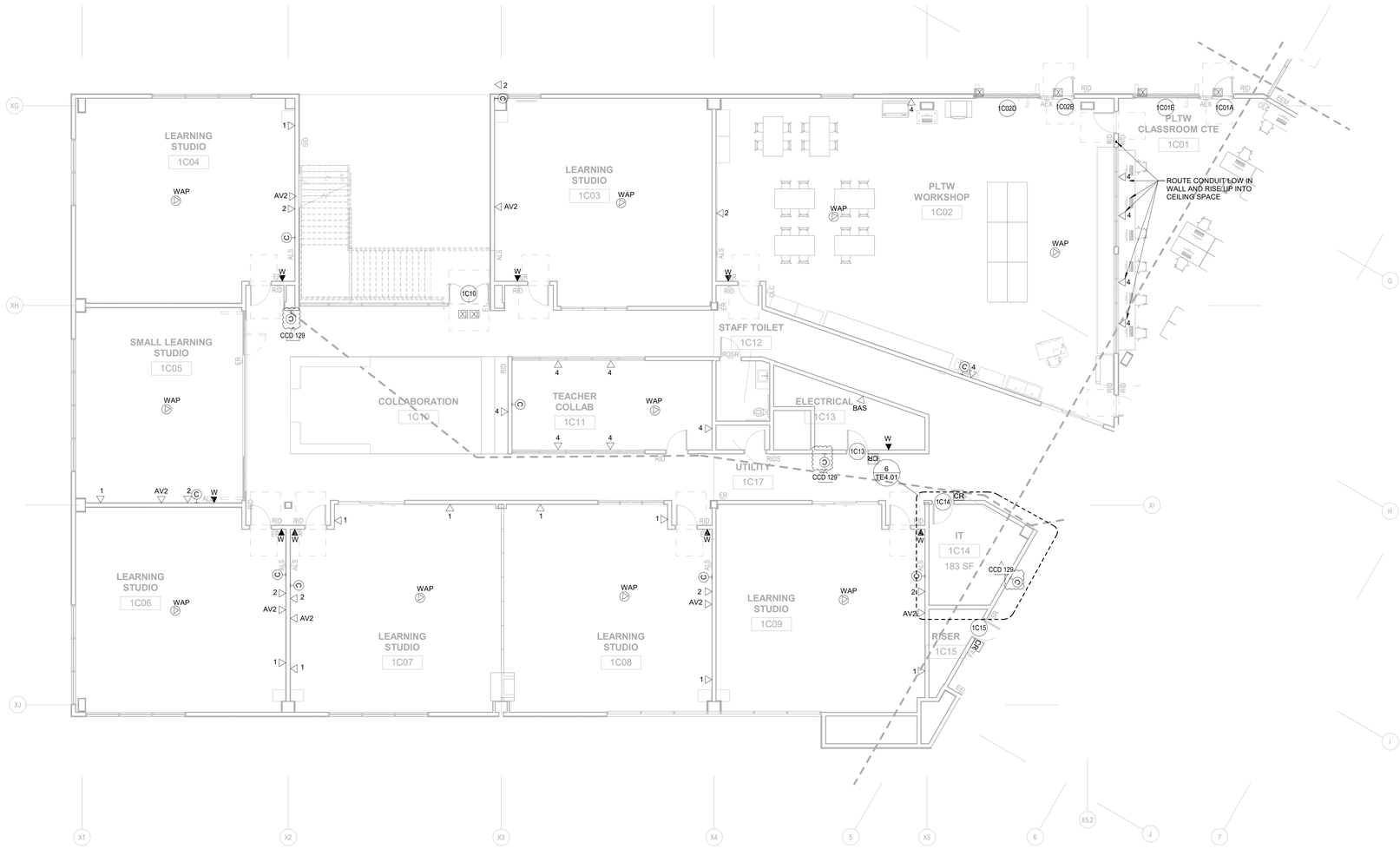
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	4/2/2024	RFI-1593
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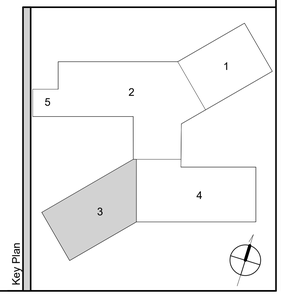
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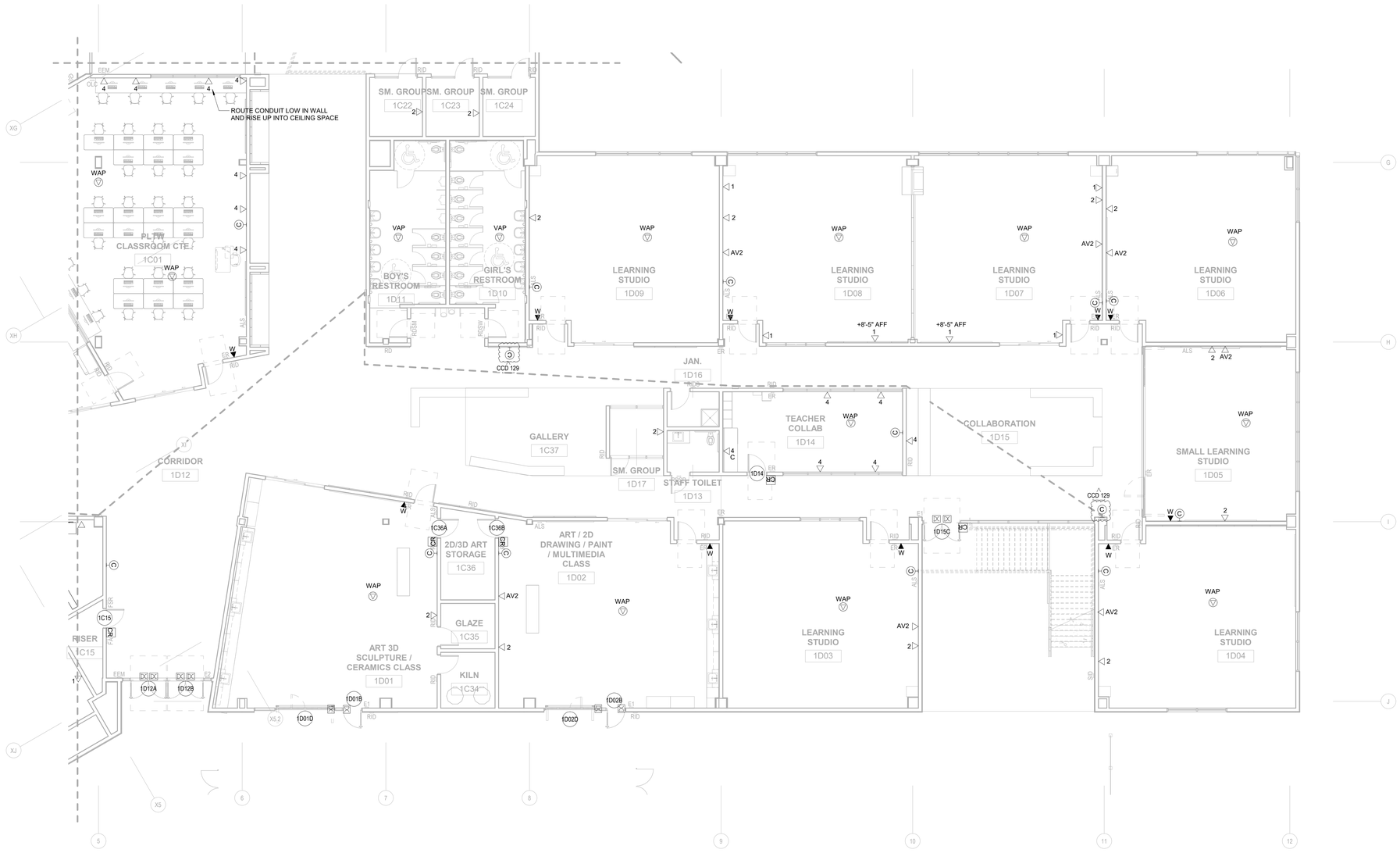
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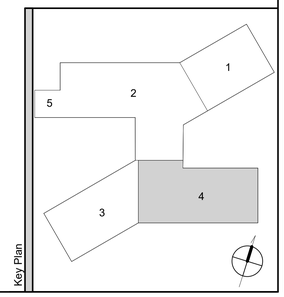
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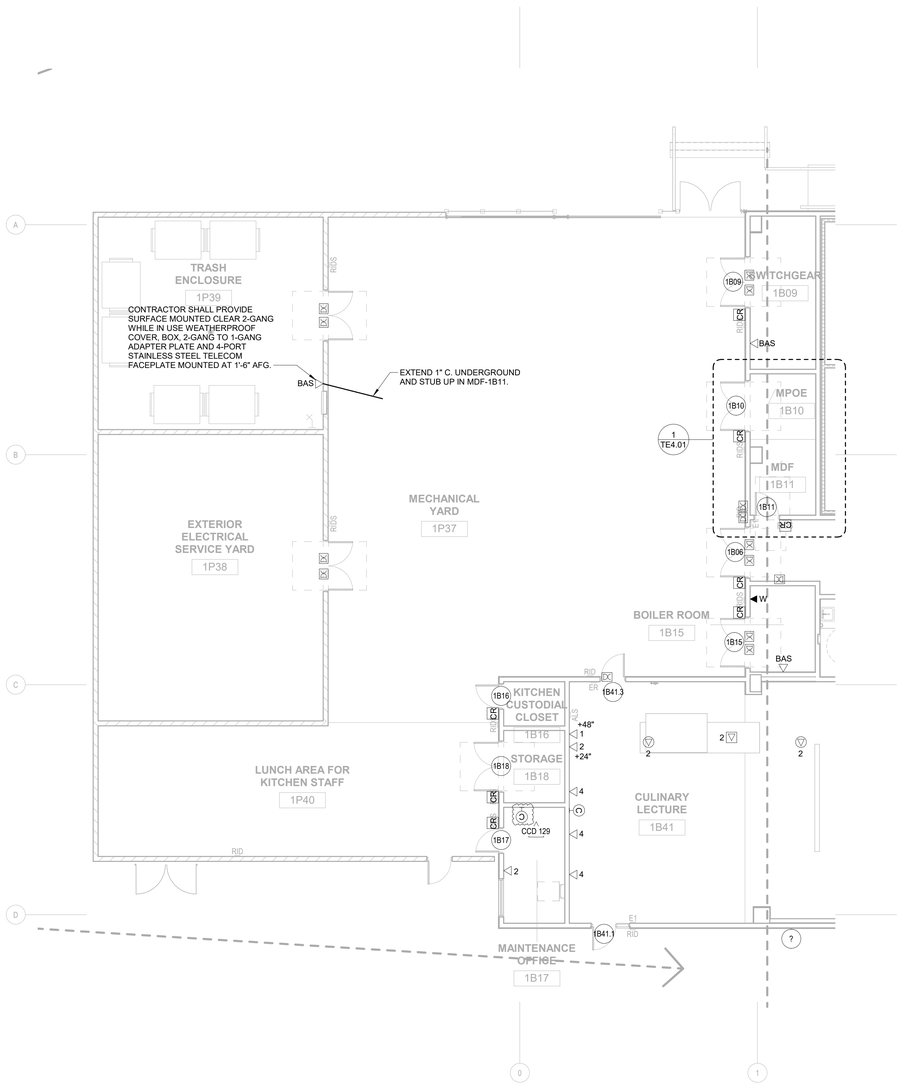
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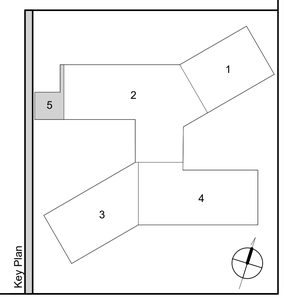
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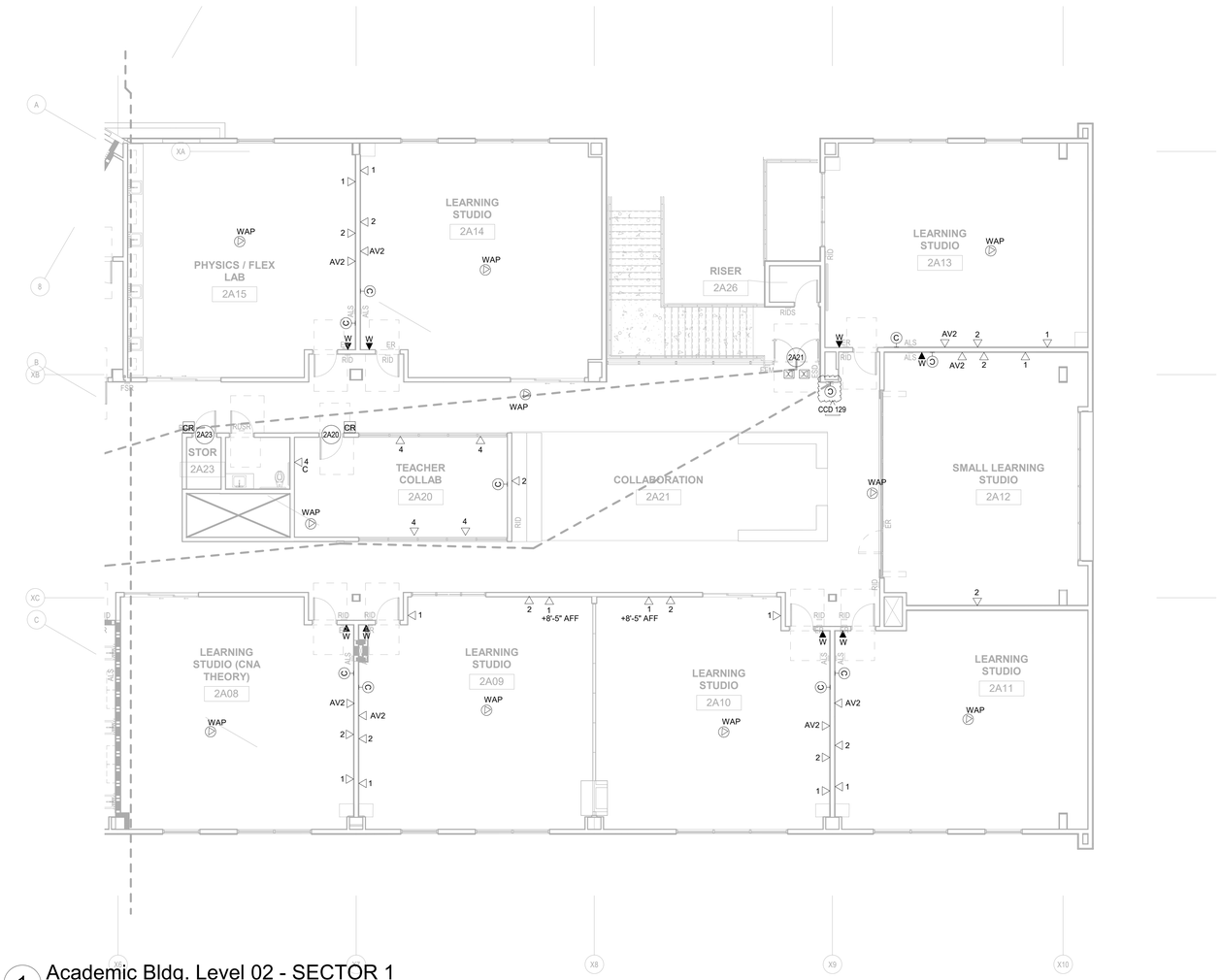
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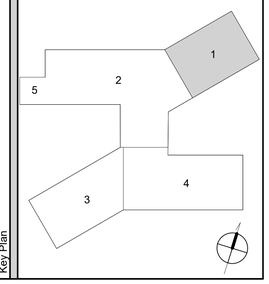
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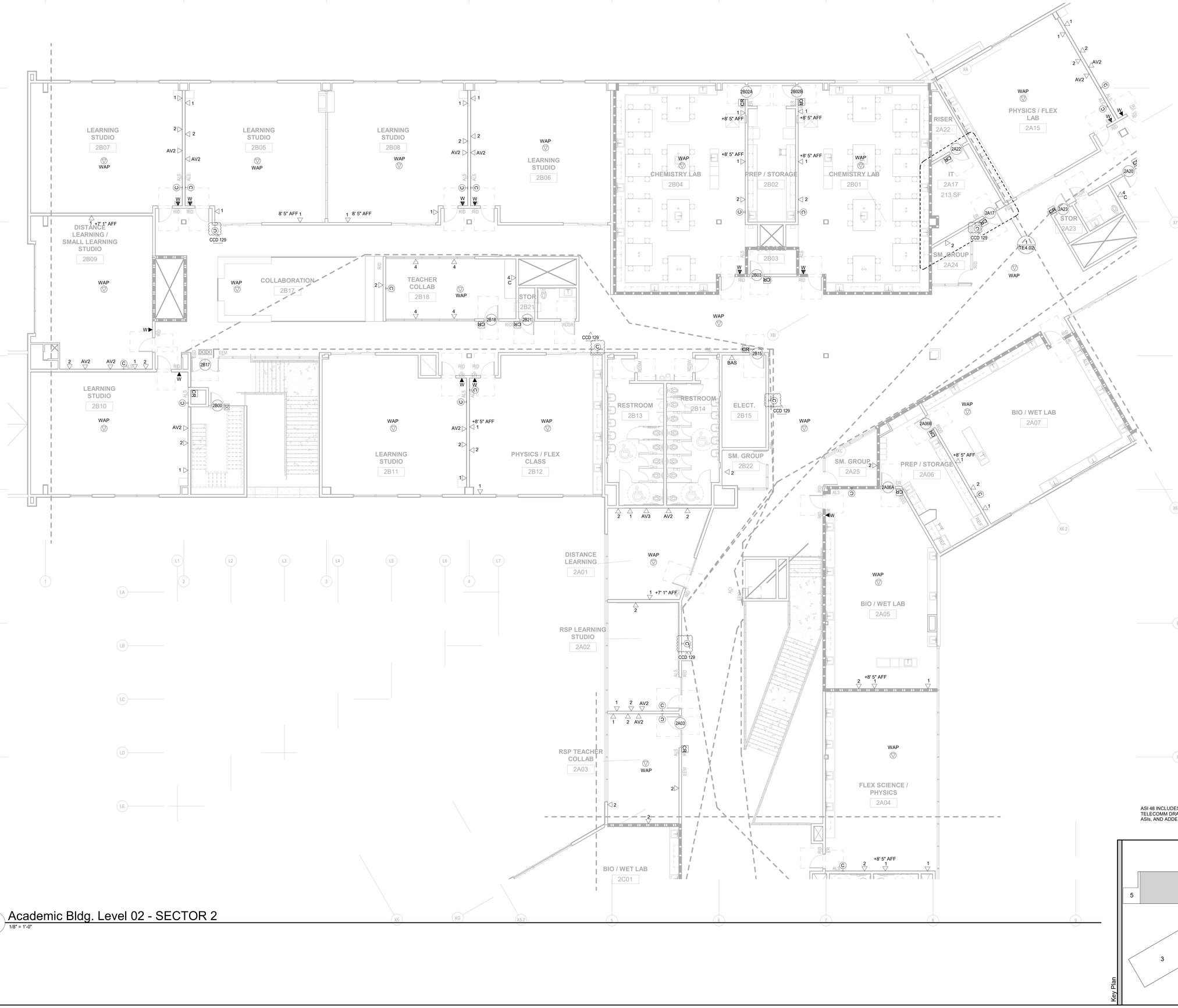
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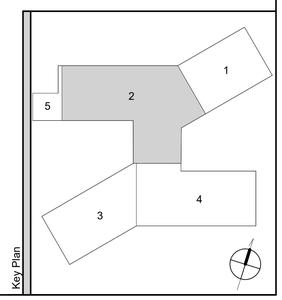
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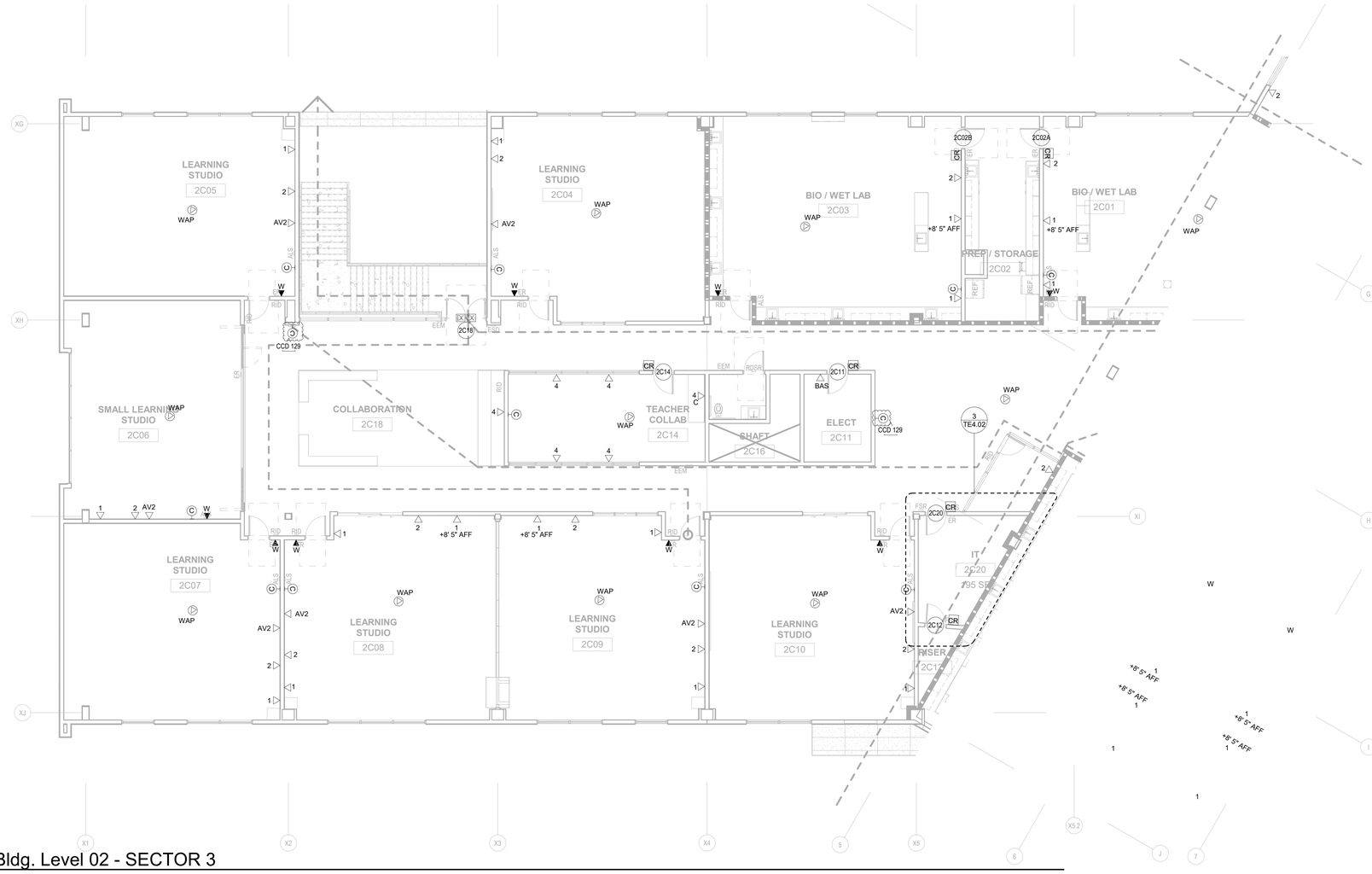
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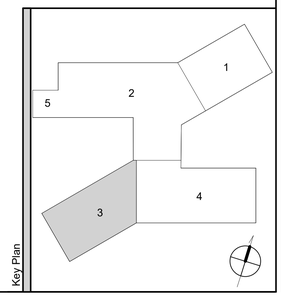
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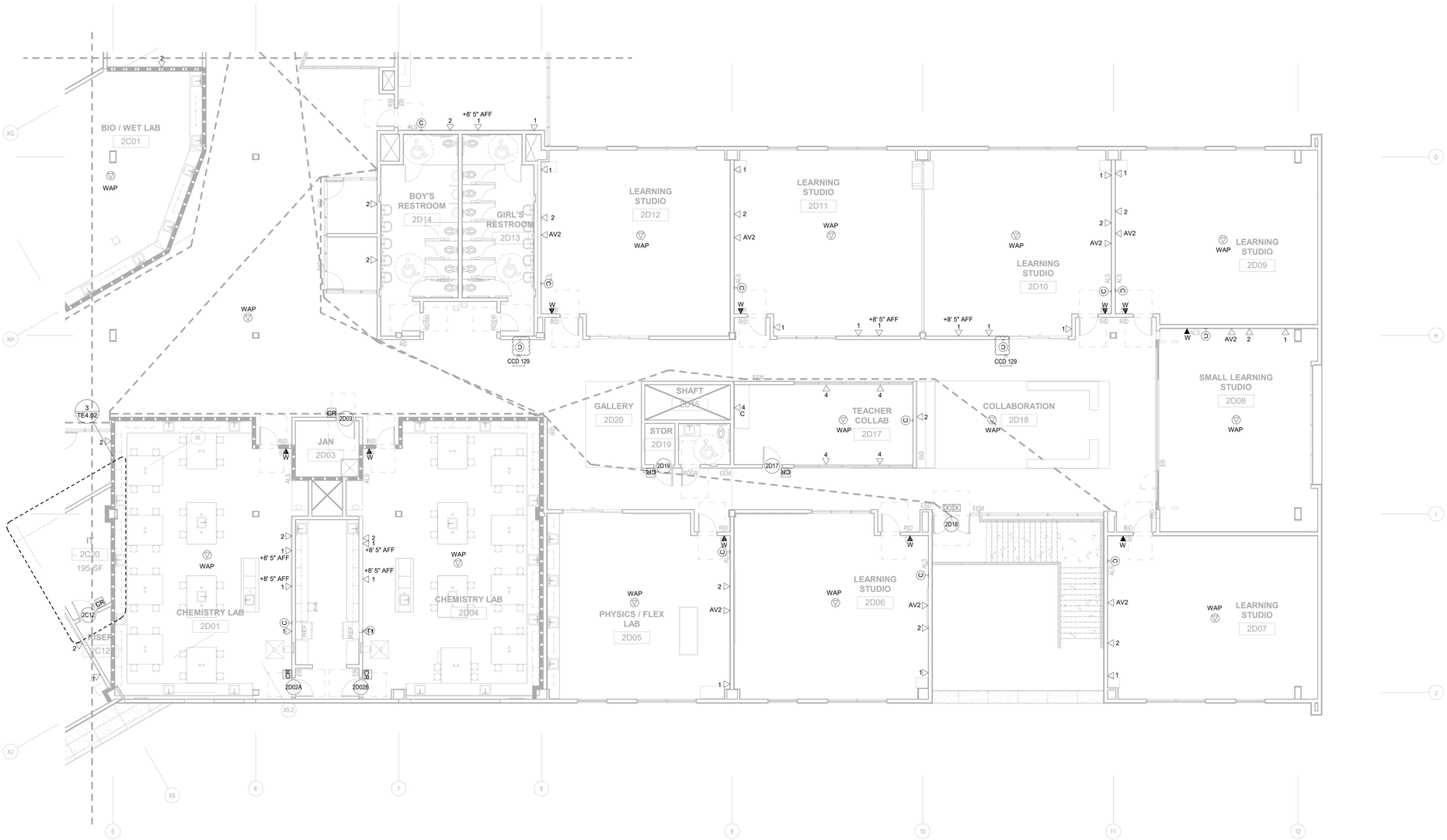
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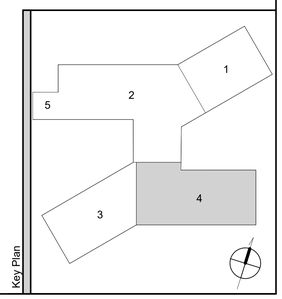
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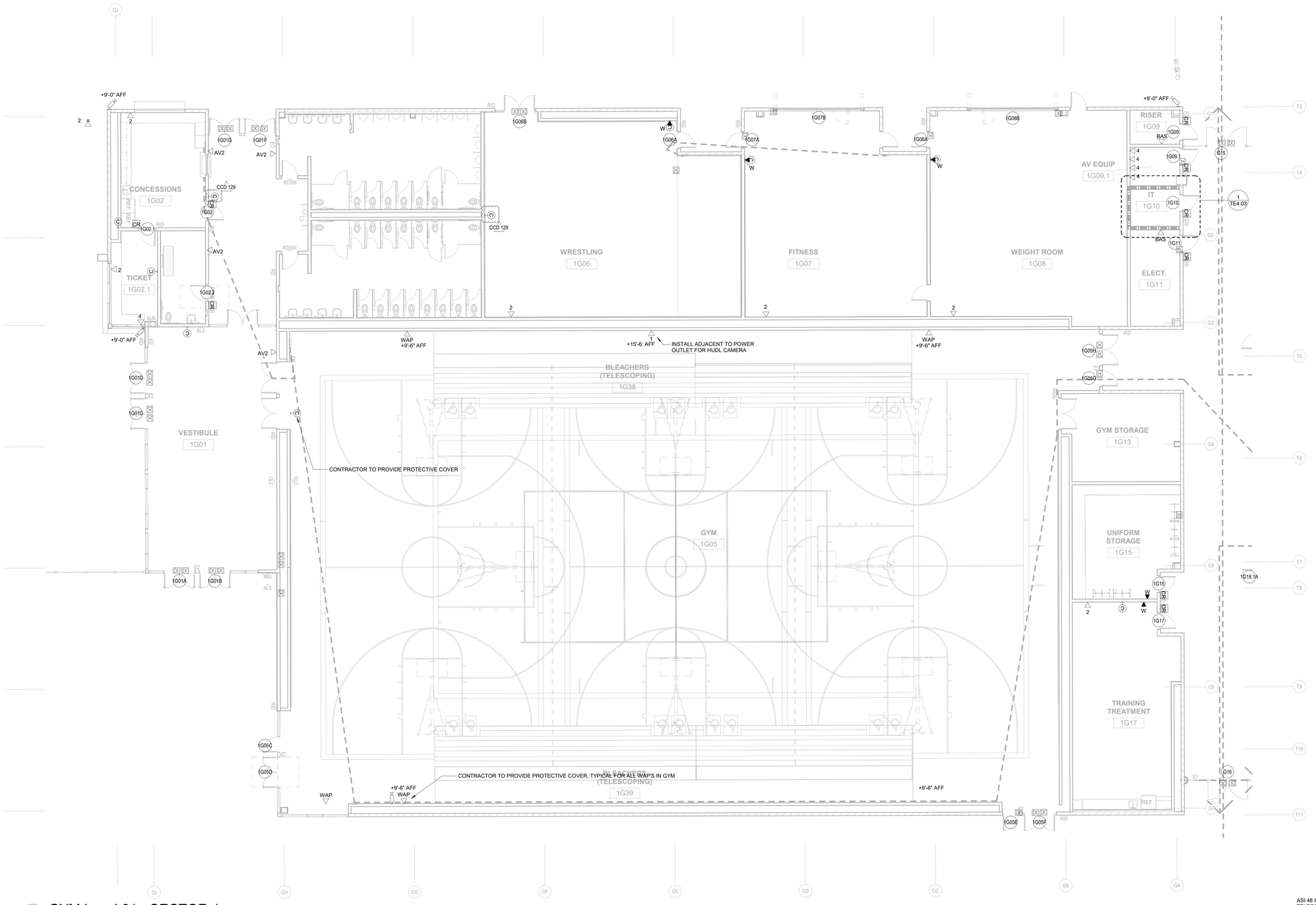
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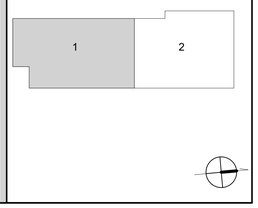
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	3/19/24	ASI-143
	2/27/2028	CCD 129

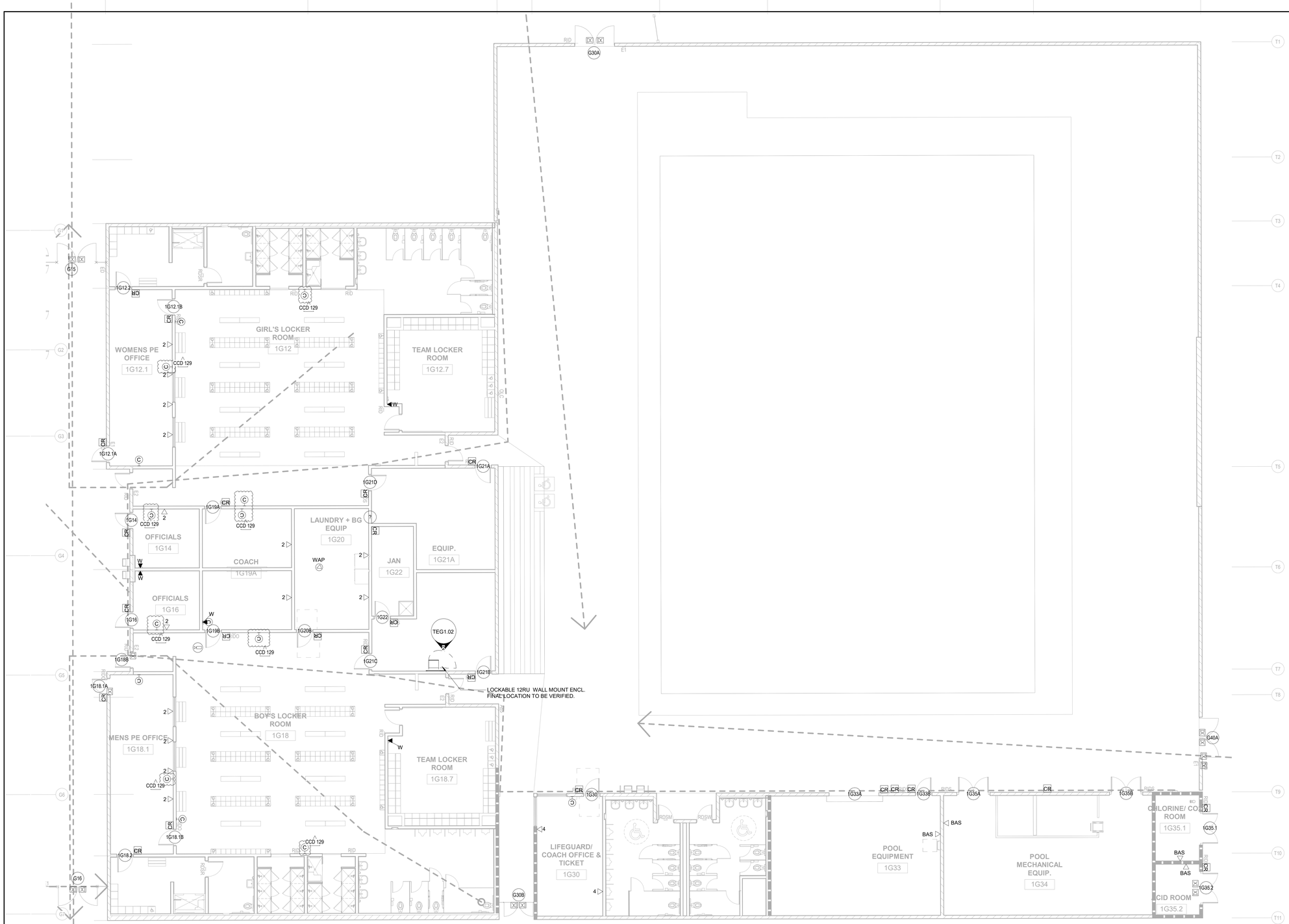
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DSA No.:	03-120849
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PROJ MGR:	Author
DATE:	02/15/2021

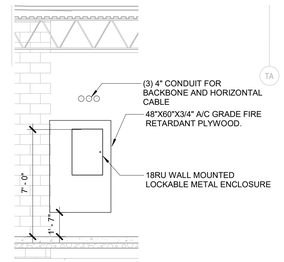
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GYM BLDG FLOOR PLAN - SECT. 1 - LVL 1

Sheet No.
TEG1.01

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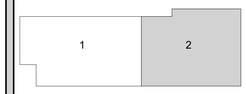
1 GYM Level 01 - SECTOR 2
1/8" = 1'-0"



2 Equip. 1G21 Wall Mounted Rack Elevation
1/4" = 1'-0"

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Key Plan



Agency Approval

Client

Compton Unified School District

501 S. Santa Fe Avenue
Compton, CA 90221

CUSD No.:	16/17-5044
PTN No.:	73437-0140
File No.:	19-H7

Stamp

REGISTERED PROFESSIONAL ENGINEER
BRIAN E. PETERA
REG. #E15090
EXP. 6/30/27
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STATE OF CALIFORNIA

Architect

DLR Group

ARCHITECT
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Tel: 213-800-9400
www.dlrgroup.com

Consultant

Project

601 S Arcacia Ave Compton, CA 90220

Compton High School

DSA SUBMITTA

Issue

RE V.	DATE	DESCRIPTION
	9/19/2023	ASI-48
	2/27/2028	CCD 129

Sheet Data

JOB No.:	75-17219-00
DSA No.:	03-120849
SCALE:	As indicated
PROJ MGR:	Author
DATE:	02/15/2021

Sheet Title

GYM BLDG FLOOR PLAN - SECT. 2 - LVL 1

Sheet No.

TEG1.02

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IT ROOM 1P10 IS SIZED FOR 24 SINGLE MODE AND 24 MULTI-MODE AND APPROXIMATELY 580 CATEGORY 6 PLENUM RATED HORIZONTAL CABLES.

PRACTICE 1P17
PRACTICE 1P18
CORRIDOR 1P12.2
PRACTICE 1P15
PRACTICE 1P16
BAND / ORCHESTRA RM 1P19
RECORDING CONTROL 1P14
CHORUS RM 1P12
STAFF OFFICE 1P13
ROBE STO 1P12.01
DIGITAL MUSIC STO 1P09.01
DIGITAL MUSIC LAB 1P09
IT 1P10
CORRIDOR 1P01.07
ISO 1P08.01
RECORDING 1P08
CONTROL 1P07
VIDEO PRODUCTION LAB 1P06
VIDEO PRODUCTION STO 1P07.04
CORRIDOR 1P01.05
AUDITORIUM 1P01.01
CORRIDOR 1P01.06
LOBBY 1P02
CONCESSIONS + TICKETS 1P05
MEN'S RESTROOM 1P04
WOMEN'S RESTROOM 1P03
STAGE 1P01
AUDITORIUM 1P01.01
OBSERVATION / CONTROL RM 1P01.02
VESTIBULE 1P01.03
CORRIDOR 1P01.09

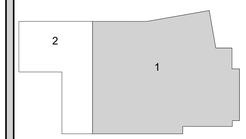
CCD 129
WAP +18'-0" AFF
WAP +16'-6" AFF
WAP +13'-6" AFF
WAP +10'-0" AFF
+8'-0" AFF
+8' 6" AFF
+8' 5" AFF
+5' 6" AFF
+5' 0" AFF
+18'-0" AFF WAP
+16'6" AFF WAP
+13'-6" AFF WAP
+10'-0" AFF WAP

TELECOM FACEPLATE SHALL BE PAINTED (Dunn Edwards DE6376 LOOKING GLASS) TO MATCH WALL. REFER TO FINISH SCHEDULE PT-7 FOR ADDITIONAL INFORMATION. TYPICAL OF 8 PLACES.

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1 PAC - LEVEL 01 - SECTOR 1
1/8" = 1'-0"

Key Plan



Agency Approval

Client Stamp

Compton Unified School District
501 S. Santa Fe Avenue
Compton, CA 90221

CUSD No.:	16/17-5044
PTN No.:	73437-0140
File No.:	19-H7

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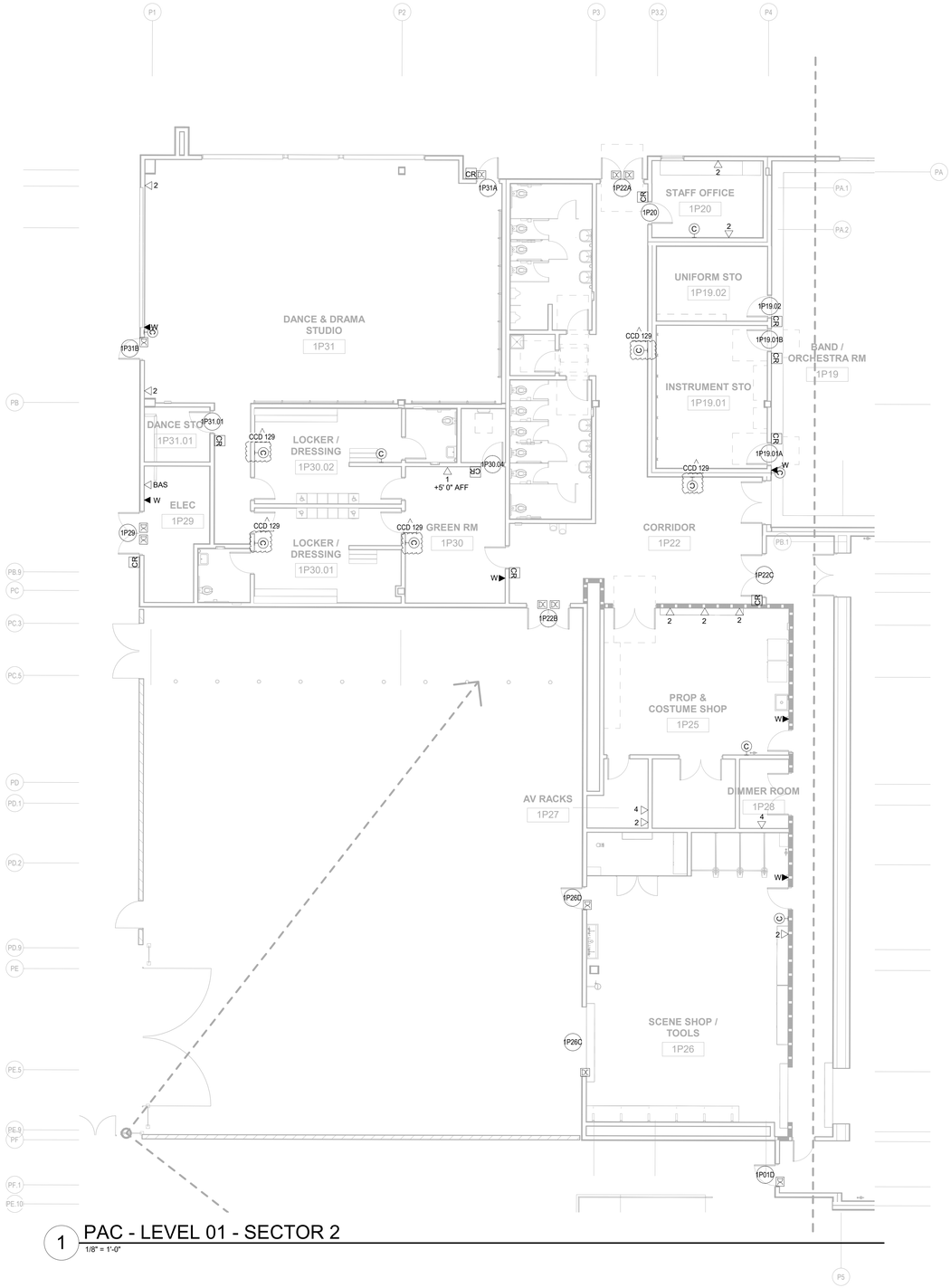
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PAC BLDG FLOOR PLAN - SECT. 1 - LVL 1

Sheet No.

TEP1.01

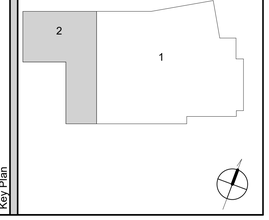
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1 PAC - LEVEL 01 - SECTOR 2
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Key Plan



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Client

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Compton, CA 90221

CUSD No.:	16/17-5044
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PAC BLDG FLOOR PLAN - SECT. 2 - LVL 1

Sheet No.

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FS12T-66

FS Series Arena Horn Loudspeaker





Features

- Ideal for a Wide Array of Outdoor and Indoor Applications
- Integrated 400-Watt 70.7V Transformer
- Constant Directivity Design Offers Controlled Coverage of 60° Horizontal by 60° Vertical
- All-Weather Construction Ensures Long-Term Reliability Through Varying Seasons
- Flexible Mounting System Ensures Versatile Install Mounting Angles
- Easy Service Design Allows Transducers to be Serviced in the Field without Uninstalling the Enclosure from the Mount
- Neutral Finish Blends into Any Environment

Applications

The FS12T-66 features a lightweight and compact all-weather enclosure that can be used in multiple outdoor and indoor installation applications including arenas, stadiums, fairgrounds, racetracks, theme parks, outdoor entertainment centers, convention centers, aquatic centers, and multipurpose venues.

General Description

The FS12T-66 is two-way, full-range loudspeaker system engineered to provide excellent voice and music reproduction in applications requiring weather resistance. It was designed to withstand exposure to environmental conditions and provide long-lasting reliability.

It incorporates a 12" LF driver and 1" exit HF compression driver concentrically mounted to a high-directivity waveguide. It provides 60° x 60° coverage and is tuned for optimal source reproduction.

The unit is constructed using molded linear low-density polyethylene (LLDPE), creating an incredibly strong yet lightweight enclosure. The unit includes a stainless steel U-bracket and fly-points allowing for easy mounting. Input is via an integrated 70.7V transformer with low insertion loss and full frequency response with power taps up to 400-watts including an 4Ω bypass. The transformer is discretely mounted under the rear cover for weather protection. The finish is neutral "battle ship grey" that is UV resistant and allows for years of durability.

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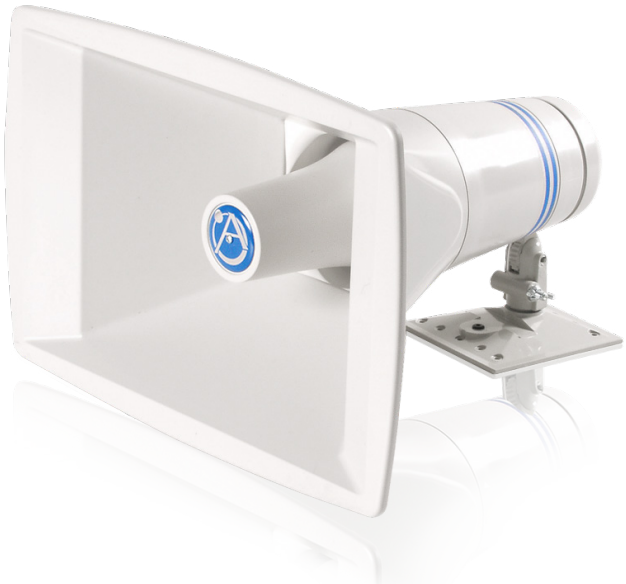
System	
Type	Full-Range, Outdoor, Horn Loudspeaker
Operation Mode	Non-Powered Passive
Operating Range (-10db)	57Hz - 18.6kHz
Frequency Response (+/- 5dB)	80Hz - 17.6kHz
Sensitivity (2.83V @1m)	102.5 dB
Vertical Coverage	60°
Horizontal Coverage	60°
Max Input Ratings (4 ohm)	400 W Continuous, 800 W Program
Transformer Taps - 70V	400W, 200W, 100W, 50W
Transformer Taps - 100V	400W, 200W, 100W
Directivity Factor (Q)	36.4 @ 4kHz
Directivity Factor (DI)	15.6 @ 4kHz
Max SPL at 1m (Passive)	128.5
Crossover Frequency	1.1kHz
Recommended Signal Processing	70 Hz High Pass Filter
Recommended Power Amplification	400W @ 4Ω
Transducers	
LF Transducer Qty and Size	1 x 12"
LF Voice Coil Size	2.5"
MF Transducer Qty and Size	N/A
MF Voice Coil Size	N/A
HF Transducer Qty and Size	1 x Compression Driver 1" Throat
HF Voice Coil Size	1.75"
Maximum Output (System)	128.5 dB
Nominal Impedance (System)	4Ω
Minimum Impedance (System)	4.1Ω @ 1050Hz
Driver Protection	HF and LF Driver Protection Circuits
Enclosure	
Color	Light Gray
Enclosure Material	LLDPE (Linear Low-Density Polyethylene)
Grille Material	Aluminum
Baffle Material	N/A
Mount Material	Stainless Steel
Input Connection	Barrier Terminal, Transformer / 4Ω Direct
Controls	N/A
Mounting / Rigging Provisions	6mm Stainless Steel U-Bracket
Ingress Protection	IP45 When Tilted 5° Downwards
Environmental Testing	MIL-DTL-12606
Cutout Diameter	N/A
Logo	2 Sides, Rear Cover, and Grill
Product Dimensions (HxWxD)	19.56" x 18.5" x 18.5" (498mm x 470mm x 470mm)
Shipping Dimensions (HxWxD)	24.5" x 23.5" x 23.5" (622mm x 597mm x 597mm)
Net Weight	48 lbs. (21.77 kgm)
Shipping Weight	60 lbs (27.21 kgm)
Warranty Coverage	
Warranty Period	5 Years

NOTES:
1. Sensitivity: 1 meter, 2.83 volts RMS.
2. Power: All power figures are calculated using the rated nominal impedance.
3. Frequency response and sensitivity are anechoic measurements.

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APX40TN

Constant-Directivity Paging Loudspeakers



Features

- Controlled Coverage of 60° x 40° Across a Wide Frequency Range for Predictable Beamwidth Control
- 40 Watt Models For Better Output Over Competitive 15 & 30 Watt Standards
- Triple Lock Horn-to-Base Mounting Method Speeds Installation and Insures Long-Term Stability
- Rotating Bell Pivots in 15° Increments for Exact On-Site Positioning of Projection Angles Detailed in Acoustic Simulation Programs
- Rear Cap Includes Partially-Captive Screws (No Loose Parts) for Swing-Open Access to Power Taps and Wire Connections. Cap Includes Knockout for Conduit Connection
- Sturdy Die-Cast Base Includes Provisions for Flex Conduit and May Be Mounted to 1-gang, 2-gang, and 4" Square E.O. Boxes, Banded to Poles or Removed for Easy Retrofit of Existing AP Series Loudspeakers
- Loudspeaker is Molded of High-Impact, Neutral- Grey Polycarbonate Resin with UV Light Inhibitor Preventing Embrittlement or Discoloration
- Universal 25/70/100V Transformer Includes a Rotary-Dial Selector for Easy Tap Identification
- Speaker Mounting is Backwards Compatible to AP Series– Simply Remove Base and Mount to Omni- Purpose® Bracket

"X"-tra Value Features

- Rotating Bell
- Triple Lock Security
- "Power Stripe" Code
- Quality Materials

"X"-tra Easy Installation

- Universal base mounts 1-gang, 2-gang or 4" sq. E.O. boxes.
- 40 watt model includes 30 watt tap @ 70V.

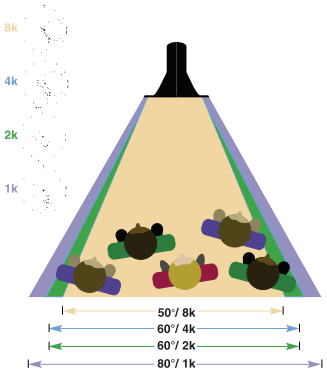
"X"-tra Predictability

- Clear Messaging and Music
- Consistent Beamwidth Control
- Fewer Speakers to Provide Quality Communications

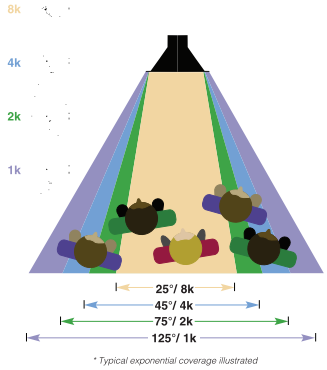
General Description

Model APX40TN a conservatively rated 40 watt, constant-directivity paging loudspeakers for use in public address or paging applications. 40 watt model has a 40 watt tap at 70V. Environment-resistant units feature a 60° x 40° (±10°) constant-dispersion pattern across the controlled frequency band of 1.25-10 kHz. The rotating bell pivots in precise 15° increments for exact on-site positioning of projection angles. A triple lock security mounting method saves installation time and provides long-term stability. APX models are equipped with an internal 25/70.7/100 volt transformer with screw terminal connections made beneath the rear cap. Rear cap will facilitate armored cable. Power stripe code around the driver assembly provides identification of power rating from a distance. Loudspeaker mounts to die-cast zinc base. Pre-mount the base to a standard 1-gang, 2-gang, or 4" sq. E.O. box. If replacing AP Series speakers, simply remove the APX base and mount to the Omni-Purpose® bracket. Finish is neutral.

APX Beamwidth
Controlled Coverage
Across a Wide Freq. Range

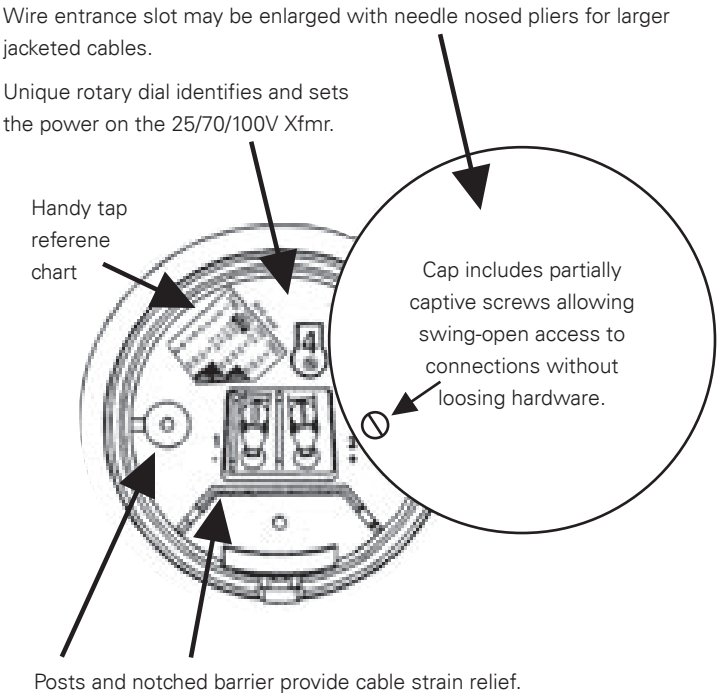


Conventional Beamwidth
Collapsing Coverage
Across a Wide Freq. Range



** Typical exponential coverage illustrated*

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APX40TN Transformer Power Taps				
Switch Position	Impedance (Ohms)	Watts @ 25V	Watts @ 70.7V	Watts @ 100V
1	2,00	-	2.5	5.0
2	1,00	.63	5.0	10.0
3	500	1.25	10.0	20.0
4	250	2.5	20.0	40.0
5	167	3.75	30.0	X*
6	125	5.0	40.0	X*
7	62.5	10.0	X*	X*
8	31.3	20.0	X*	X*
9	15.6	40.0	X*	X*

(*DO NOT USE)

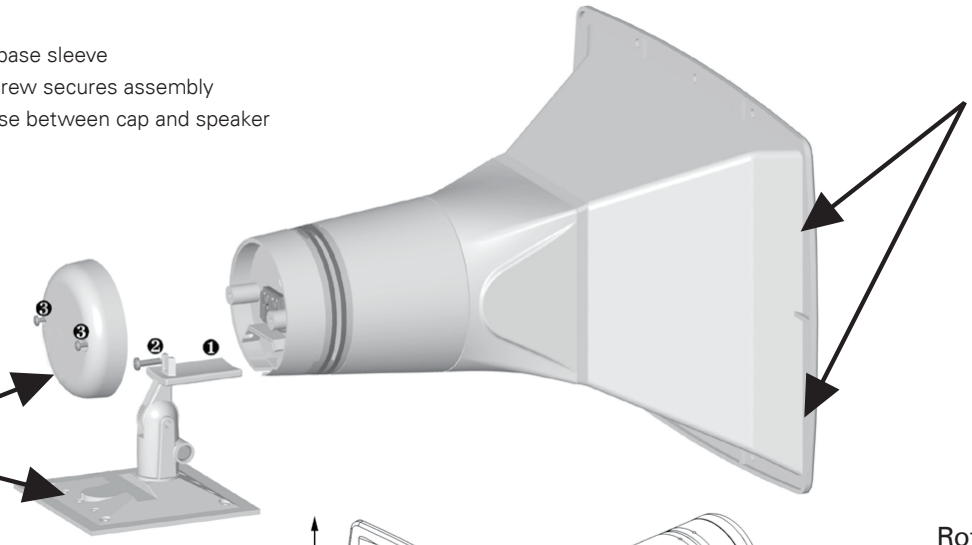
Frequency (Hz)	Q	(dB) Di	Beamwidth Horizontal	(Degrees) Vertical
500	6	7	120	140
1000	15	12	80	100
2000	26	14	60	60
4000	27	14	60	40
8000	36	16	50	40

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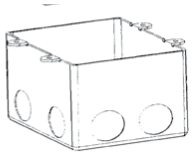
Triple Lock Security

Loudspeaker quickly snap-locks to base to allow easy wiring connections, then secures with screws to withstand weather conditions and external forces that, traditionally, cause sagging or repositioning of the louspeaker bell.

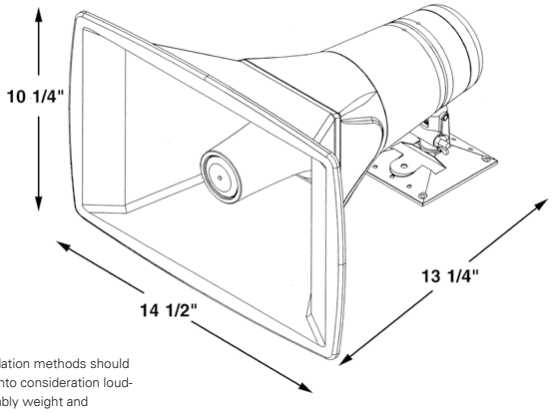
1. Loudspeaker snap-locks to base sleeve
2. Snap-lock Plastite® type screw secures assembly
3. Security cap scew-locks base between cap and speaker with (2) two screws



Multi-purpose base accepts 1-gang, 2-gang or 4" Sq. E.O. Boxes in recessed, surface, indoor or outdoor styles.



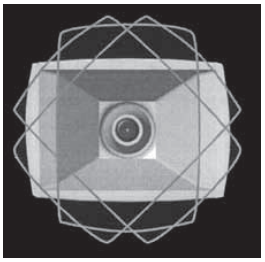
The base may also be clamped or band mounted to poles or beams, removed for flush/bulkhead installation, or removed to retrofit exisiting speaker installations with AP Series Omni-Purpose® mount.



Note: All installation methods should carefully take into consideration loud-speaker assembly weight and environmental conditions.

Rotating Bell

Lets you respond to specific coverage needs quickly in precise 15° increments. Allows full 360° rotation.



MODEL	POWER RATING	NOMINAL FREQ.	SOUND LEVEL		DISPERSION	IMPEDANCE	DIMENSIONS	WEIGHT
			*PEAK	**RP/1M, 1W/1M				
APX40TN	40 Watts	400 7500Hz	124dB	120, 107dB 500-5000 Hz (±5dB)	60° x 40°	***	14 1/2"W 10 1/4" H 13 1/4"D	6 lbs. 2.7 kg

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Product: 6T00UP

Audio Cable, 2 Conductor 10 AWG BC, CL2P

Product Description

Commercial Audio Cable, 2 Conductor 10 AWG highly flexible stranded (65x28) bare copper conductors with Flamarrest® insulation, CL2P, Flamarrest® jacket with ripcord

Technical Specifications

Product Overview

Suitable Applications:	High Flex Audio/Speaker

Construction Details

Conductor

Element	Number of Element	AWG	Stranding	Material
Conductor(s)	2	10	65x28	BC - Bare Copper

Insulation

Element	Material	Thickness [in.]	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.011	Black, White

Outer Shield Material

Material
No Shield

Outer Jacket Material

Material	Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.017 in	0.302 in	Yes

Cable Diameter (Nominal):	0.302 in

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Max. Current
Conductor(s)	1.07 Ohm/1000ft	28 pF/ft	27.8 Amps per Conductor at 25ºC

Voltage

UL Voltage Rating
150 V

Mechanical Characteristics

Temperature

Operating
-20°C to +75°C

Bend Radius

Stationary Min.	Installation Min.
3.1 in	3 in

Max. Pull Tension:	260 lbs
Bulk Cable Weight:	81 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Flammability / Fire Resistance:	NFPA 262, FT6, IEC 60332-1-2
NEC / UL Compliance:	Article 725, CL2P
CPR Euroclass:	Eca
European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	5T00UP

History

Update and Revision:	Revision Number: 0.313 Revision Date: 08-12-2020

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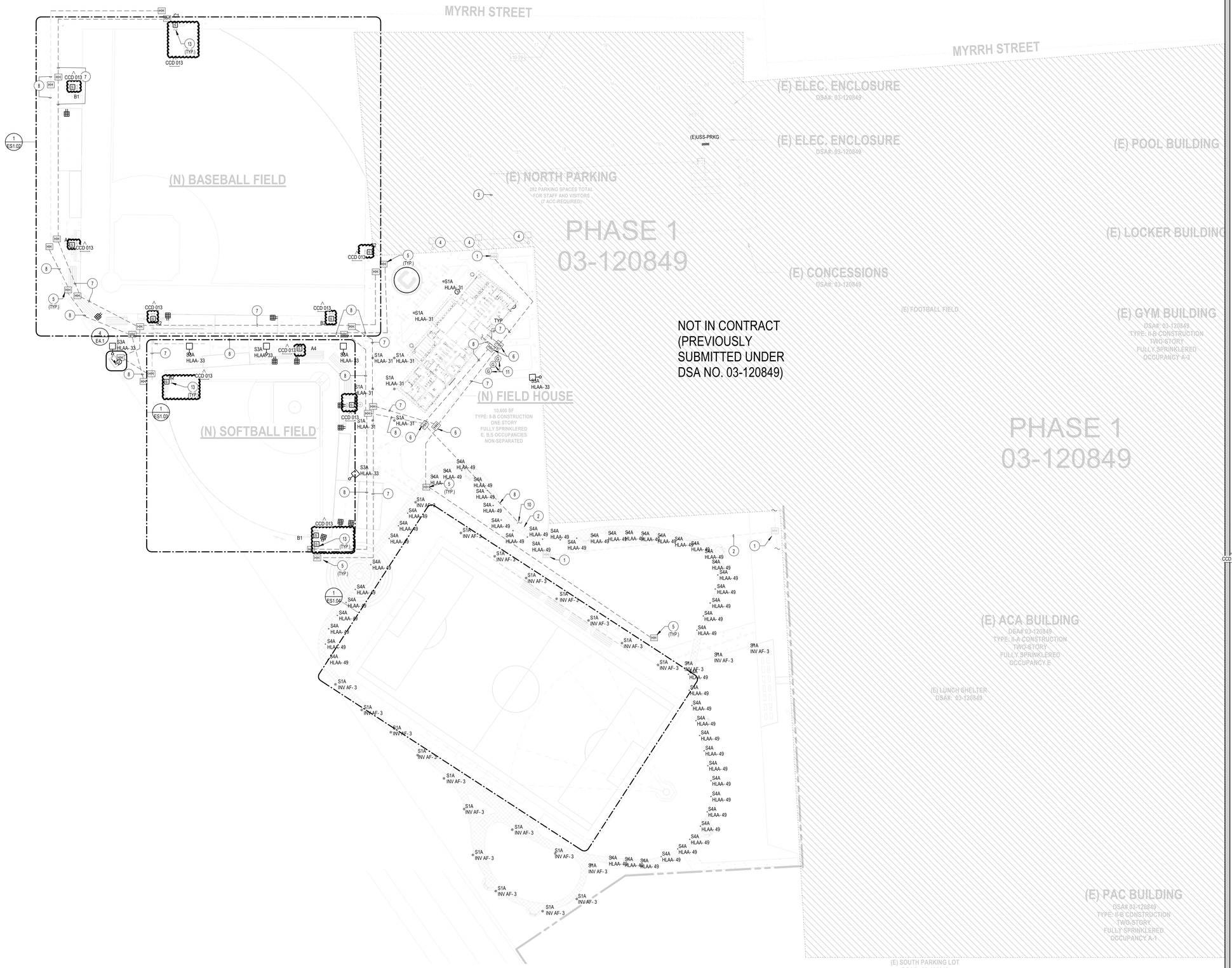
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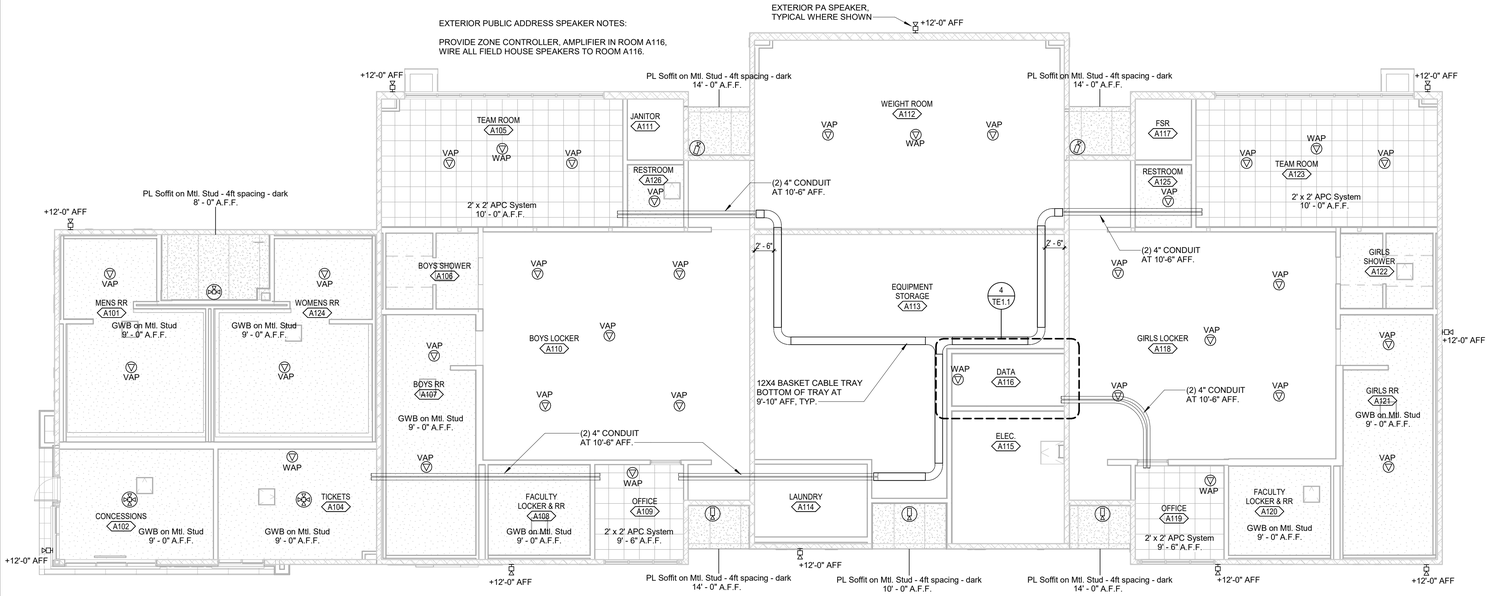
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Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.


MYRRH STREET
MYRRH STREET
(E) ELEC. ENCLOSURE
DSA#: 03-120849
(E) ELEC. ENCLOSURE
DSA#: 03-120849
(E)JSS-PRKG
(E) POOL BUILDING
(N) BASEBALL FIELD
(E) NORTH PARKING
282 PARKING SPACES TOTAL
FOR STAFF AND VISITORS
(7 ACC.REQUIRED)
PHASE 1
03-120849
(E) LOCKER BUILDING
(E) CONCESSIONS
DSA#: 03-120849
(E) FOOTBALL FIELD
(E) GYM BUILDING
DSA#: 03-120849
TYPE: II-B CONSTRUCTION
TWO-STORY
FULLY SPRINKLERED
OCCUPANCY A-3
NOT IN CONTRACT
(PREVIOUSLY
SUBMITTED UNDER
DSA NO. 03-120849)
(N) FIELD HOUSE
10,600 SF
TYPE: II-B CONSTRUCTION
ONE STORY
FULLY SPRINKLERED
E, B,S OCCUPANCIES
NON-SEPARATED
(N) SOFTBALL FIELD
PHASE 1
03-120849
(E) ACA BUILDING
DSA# 03-120849
TYPE: II-A CONSTRUCTION
TWO-STORY
FULLY SPRINKLERED
OCCUPANCY E
(E) LUNCH SHELTER
DSA#: 03-120849
(E) PAC BUILDING
DSA# 03-120849
TYPE: II-B CONSTRUCTION
TWO-STORY
FULLY SPRINKLERED
OCCUPANCY A-3
(E) SOUTH PARKING LOT
DSA#: 03-120849
CCD 013
B1
B2
A4
E4.1
ES1.00
ES1.04
S1A HLAA- 31
S3A HLAA- 33
S4A HLAA- 49
S1A INV AF- 3
S4A HLAA- 49
S4A HLAA- 49
S4A HLAA- 49

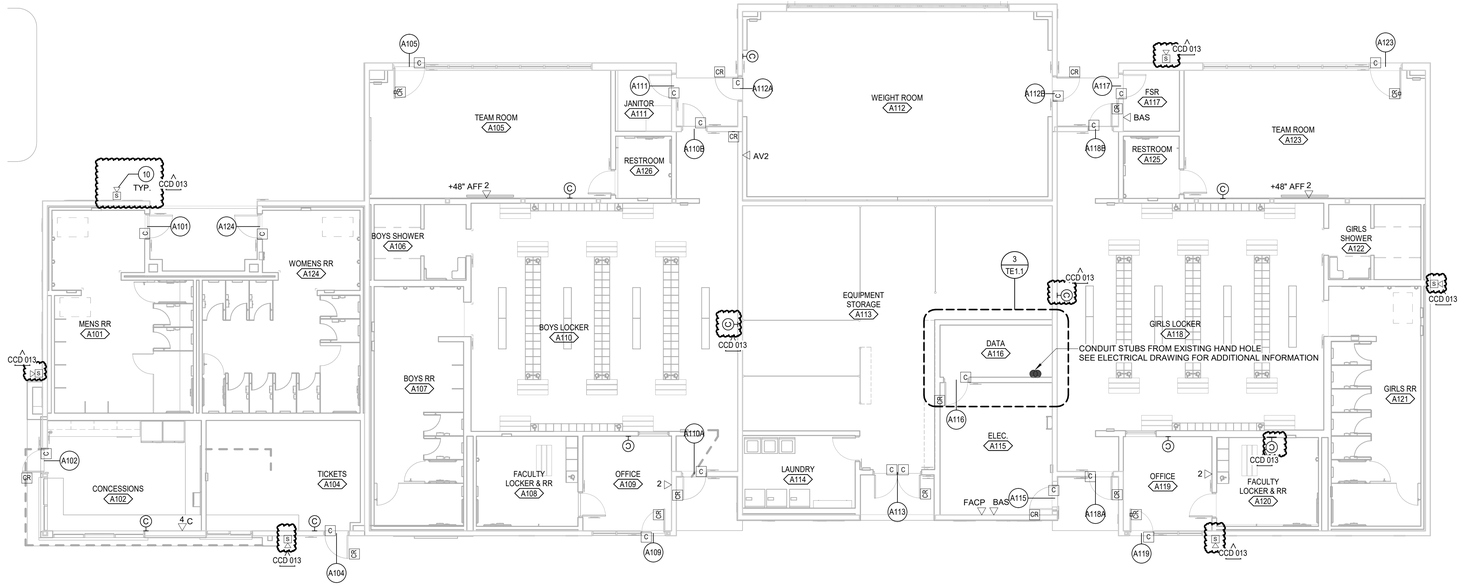
EXTERIOR PUBLIC ADDRESS SPEAKER NOTES:

PROVIDE ZONE CONTROLLER, AMPLIFIER IN ROOM A116, WIRE ALL FIELD HOUSE SPEAKERS TO ROOM A116.



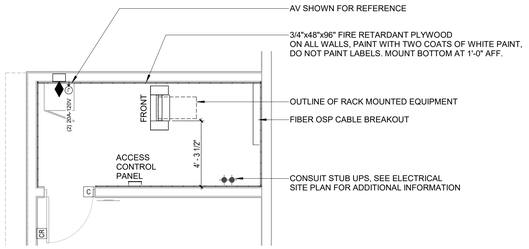
GROUND LEVEL RCP

SCALE: 1/8" = 1'-0"



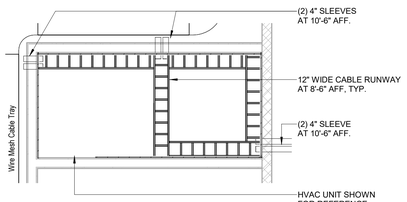
GROUND LEVEL

SCALE: 1/8" = 1'-0"



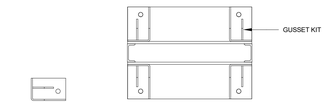
DATA A116 ENLARGED PLAN

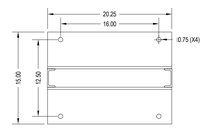
SCALE: 1/4" = 1'-0"



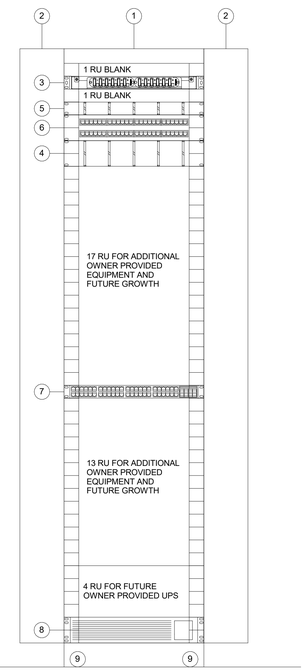
DATA A116 ENLARGED RCP

SCALE: 1/4" = 1'-0"





CHATSWORTH PRODUCTS
46353-703
7' TALL 2-POST
UNIVERSAL RACK FLOOR PLATE
DIMENSIONAL PLAN



General Notes:

1. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.

Key Notes:

1. PROVIDE 19" WIDE, 2-POST, 45 RU FLOOR MOUNTED RACK.
2. PROVIDE 6" WIDE DOUBLE SIDED VERTICAL WIRE MANAGER.
3. PROVIDE 1 RU CLOSET CONNECTOR HOUSING FOR TERMINATING SINGLE-MODE FIBER OPTIC CABLES. (BASIS OF DESIGN - CORNING CCH-01U).
4. PROVIDE 2 RU HORIZONTAL CABLE MANAGER WITH 5 SINGLE CABLE RETAINING RINGS.
5. PROVIDE 1 RU HORIZONTAL CABLE MANAGER WITH 5 SINGLE CABLE RETAINING RINGS.
6. PROVIDE 48-PORT RJ45 CAT 6 MODULAR PATCH PANEL.
7. 1 RU 48-PORT PoE SWITCH, BY OWNER. (BASIS OF DESIGN - CISCO CATALYST WS-C3850-48U), SHOWN FOR COORDINATION.
8. RACK MOUNTED UPS BY OWNER, (BASIS OF DESIGN - APC SMART UPS 3000VA LCD RM 2U 120V), SHOWN FOR COORDINATION.
9. GUSSET KIT.
10. OUTDOOR SPEAKER EQUAL TO ATLAS IED APX40TN. MOUNT SPEAKER AT BUILDING EXTERIOR. PROVIDE 2PR#10 CABLE, EQUAL TO BELDEN 6T00UP. RUN THE SPEAKER CABLING UP TO ATHLETIC FIELD BUILDING IDF ROOM. WITHIN ATHLETIC FIELD IDF ROOM, PROVIDE AUDIO AMPLIFIER WITH DATA CONNECTION, COORDINATE WITH SCHOOL DISTRICT FOR IP ADDRESS. PROVIDE ALL REQUIRED CONNECTIONS AND APPURTENANCES

CCD 013

DATA A116 RACK ELEVATION

NOTE
1. EACH TELECOMMUNICATION RACK SHALL BE BOLTED PER THE FOLLOWING:
   1.1. GROUND FLOOR USE 5/8" DIA HILTI KB-TZ2 W/ 2 3/4" EMBED.
2. INFORMATION GIVEN IS FOR A BASIS OF DESIGN PURPOSES ONLY. CONTRACTOR SHALL PROVIDE PRODUCTS IN ACCORDANCE WITH SHOP DRAWINGS PRIOR TO RACK MOUNTING FLOOR PREPARATION.
3. 2-POST UNIVERSAL RACK MAXIMUM LOAD CAPACITY 1,500 LBS.

Autodesk Docs://75-22615-00 Compton USD - Athletic Fields/75-22615-00_Compton USD - Athletic Fields_ITDQ_2022.rvt
2/17/2026 3:38:53 PM

Agency Approval

Client

Compton Unified School District

501 S. Santa Fe Avenue
Compton, CA 90221

CUSD No.:	16/17-5044
PTN No.:	73437-0140
File No.:	19-H7

Stamps

REGISTERED PROFESSIONAL ENGINEER NORMAN E. PATENA REG. # E15090 EXP. 6/30/27 ELECTRICAL STATE OF CALIFORNIA

Architect

DLR Group

ARCHITECT
700 S. FLOWER STREET
SUITE 2200
LOS ANGELES, CA 90017
Tel: 213-800-9400
www.dlrgroup.com

Consultant

Project

COMPTON HIGH SCHOOL ATHLETIC FIELDS

601 S. Acacia Ave.
Compton, CA 90220

DSA SUBMITTAL

Issue

REV.	DATE	DESCRIPTION
2	07/18/24	ASI-006
3	02/27/202 6	CCD 013

Sheet Info

JOB No.:	75-22615-00
DSA No.:	03-122901
SCALE:	As indicated
PROJ MGR:	Author
DATE:	5/15/2023

Sheet Title

FIRST FLOOR - TELECOM/SECURITY PLANS

Sheet No.

TE1.1

FS12T-66

FS Series Arena Horn Loudspeaker





Features

- Ideal for a Wide Array of Outdoor and Indoor Applications
- Integrated 400-Watt 70.7V Transformer
- Constant Directivity Design Offers Controlled Coverage of 60° Horizontal by 60° Vertical
- All-Weather Construction Ensures Long-Term Reliability Through Varying Seasons
- Flexible Mounting System Ensures Versatile Install Mounting Angles
- Easy Service Design Allows Transducers to be Serviced in the Field without Uninstalling the Enclosure from the Mount
- Neutral Finish Blends into Any Environment

Applications

The FS12T-66 features a lightweight and compact all-weather enclosure that can be used in multiple outdoor and indoor installation applications including arenas, stadiums, fairgrounds, racetracks, theme parks, outdoor entertainment centers, convention centers, aquatic centers, and multipurpose venues.

General Description

The FS12T-66 is two-way, full-range loudspeaker system engineered to provide excellent voice and music reproduction in applications requiring weather resistance. It was designed to withstand exposure to environmental conditions and provide long-lasting reliability.

It incorporates a 12" LF driver and 1" exit HF compression driver concentrically mounted to a high-directivity waveguide. It provides 60° x 60° coverage and is tuned for optimal source reproduction.

The unit is constructed using molded linear low-density polyethylene (LLDPE), creating an incredibly strong yet lightweight enclosure. The unit includes a stainless steel U-bracket and fly-points allowing for easy mounting. Input is via an integrated 70.7V transformer with low insertion loss and full frequency response with power taps up to 400-watts including an 4Ω bypass. The transformer is discretely mounted under the rear cover for weather protection. The finish is neutral "battle ship grey" that is UV resistant and allows for years of durability.

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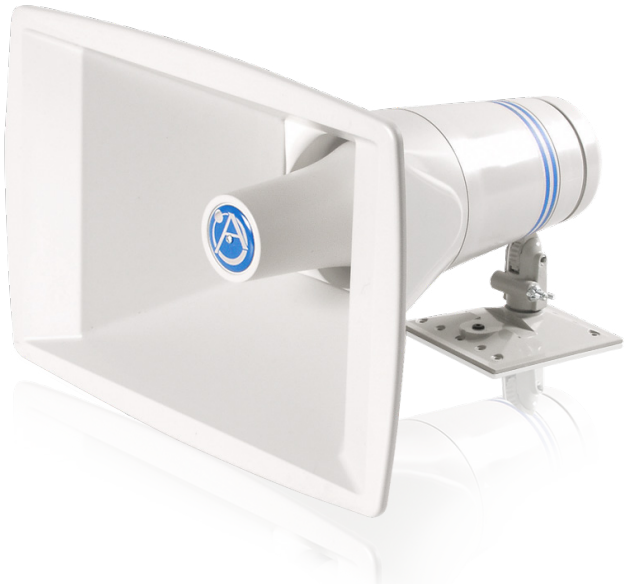
System	
Type	Full-Range, Outdoor, Horn Loudspeaker
Operation Mode	Non-Powered Passive
Operating Range (-10db)	57Hz - 18.6kHz
Frequency Response (+/- 5dB)	80Hz - 17.6kHz
Sensitivity (2.83V @1m)	102.5 dB
Vertical Coverage	60°
Horizontal Coverage	60°
Max Input Ratings (4 ohm)	400 W Continuous, 800 W Program
Transformer Taps - 70V	400W, 200W, 100W, 50W
Transformer Taps - 100V	400W, 200W, 100W
Directivity Factor (Q)	36.4 @ 4kHz
Directivity Factor (DI)	15.6 @ 4kHz
Max SPL at 1m (Passive)	128.5
Crossover Frequency	1.1kHz
Recommended Signal Processing	70 Hz High Pass Filter
Recommended Power Amplification	400W @ 4Ω
Transducers	
LF Transducer Qty and Size	1 x 12"
LF Voice Coil Size	2.5"
MF Transducer Qty and Size	N/A
MF Voice Coil Size	N/A
HF Transducer Qty and Size	1 x Compression Driver 1" Throat
HF Voice Coil Size	1.75"
Maximum Output (System)	128.5 dB
Nominal Impedance (System)	4Ω
Minimum Impedance (System)	4.1Ω @ 1050Hz
Driver Protection	HF and LF Driver Protection Circuits
Enclosure	
Color	Light Gray
Enclosure Material	LLDPE (Linear Low-Density Polyethylene)
Grille Material	Aluminum
Baffle Material	N/A
Mount Material	Stainless Steel
Input Connection	Barrier Terminal, Transformer / 4Ω Direct
Controls	N/A
Mounting / Rigging Provisions	6mm Stainless Steel U-Bracket
Ingress Protection	IP45 When Tilted 5° Downwards
Environmental Testing	MIL-DTL-12606
Cutout Diameter	N/A
Logo	2 Sides, Rear Cover, and Grill
Product Dimensions (HxWxD)	19.56" x 18.5" x 18.5" (498mm x 470mm x 470mm)
Shipping Dimensions (HxWxD)	24.5" x 23.5" x 23.5" (622mm x 597mm x 597mm)
Net Weight	48 lbs. (21.77 kgm)
Shipping Weight	60 lbs (27.21 kgm)
Warranty Coverage	
Warranty Period	5 Years

NOTES:
1. Sensitivity: 1 meter, 2.83 volts RMS.
2. Power: All power figures are calculated using the rated nominal impedance.
3. Frequency response and sensitivity are anechoic measurements.

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APX40TN

Constant-Directivity Paging Loudspeakers



Features

- Controlled Coverage of 60° x 40° Across a Wide Frequency Range for Predictable Beamwidth Control
- 40 Watt Models For Better Output Over Competitive 15 & 30 Watt Standards
- Triple Lock Horn-to-Base Mounting Method Speeds Installation and Insures Long-Term Stability
- Rotating Bell Pivots in 15° Increments for Exact On-Site Positioning of Projection Angles Detailed in Acoustic Simulation Programs
- Rear Cap Includes Partially-Captive Screws (No Loose Parts) for Swing-Open Access to Power Taps and Wire Connections. Cap Includes Knockout for Conduit Connection
- Sturdy Die-Cast Base Includes Provisions for Flex Conduit and May Be Mounted to 1-gang, 2-gang, and 4" Square E.O. Boxes, Banded to Poles or Removed for Easy Retrofit of Existing AP Series Loudspeakers
- Loudspeaker is Molded of High-Impact, Neutral- Grey Polycarbonate Resin with UV Light Inhibitor Preventing Embrittlement or Discoloration
- Universal 25/70/100V Transformer Includes a Rotary-Dial Selector for Easy Tap Identification
- Speaker Mounting is Backwards Compatible to AP Series– Simply Remove Base and Mount to Omni- Purpose® Bracket

"X"-tra Value Features

- Rotating Bell
- Triple Lock Security
- "Power Stripe" Code
- Quality Materials

"X"-tra Easy Installation

- Universal base mounts 1-gang, 2-gang or 4" sq. E.O. boxes.
- 40 watt model includes 30 watt tap @ 70V.

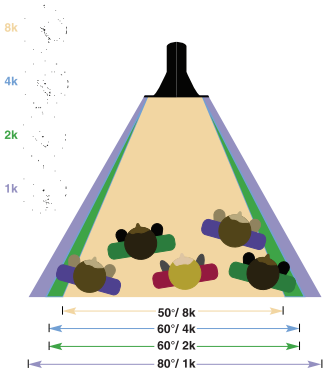
"X"-tra Predictability

- Clear Messaging and Music
- Consistent Beamwidth Control
- Fewer Speakers to Provide Quality Communications

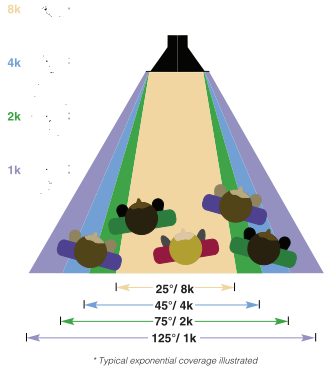
General Description

Model APX40TN a conservatively rated 40 watt, constant-directivity paging loudspeakers for use in public address or paging applications. 40 watt model has a 40 watt tap at 70V. Environment-resistant units feature a 60° x 40° (±10°) constant-dispersion pattern across the controlled frequency band of 1.25-10 kHz. The rotating bell pivots in precise 15° increments for exact on-site positioning of projection angles. A triple lock security mounting method saves installation time and provides long-term stability. APX models are equipped with an internal 25/70.7/100 volt transformer with screw terminal connections made beneath the rear cap. Rear cap will facilitate armored cable. Power stripe code around the driver assembly provides identification of power rating from a distance. Loudspeaker mounts to die-cast zinc base. Pre-mount the base to a standard 1-gang, 2-gang, or 4" sq. E.O. box. If replacing AP Series speakers, simply remove the APX base and mount to the Omni-Purpose® bracket. Finish is neutral.

APX Beamwidth
Controlled Coverage
Across a Wide Freq. Range

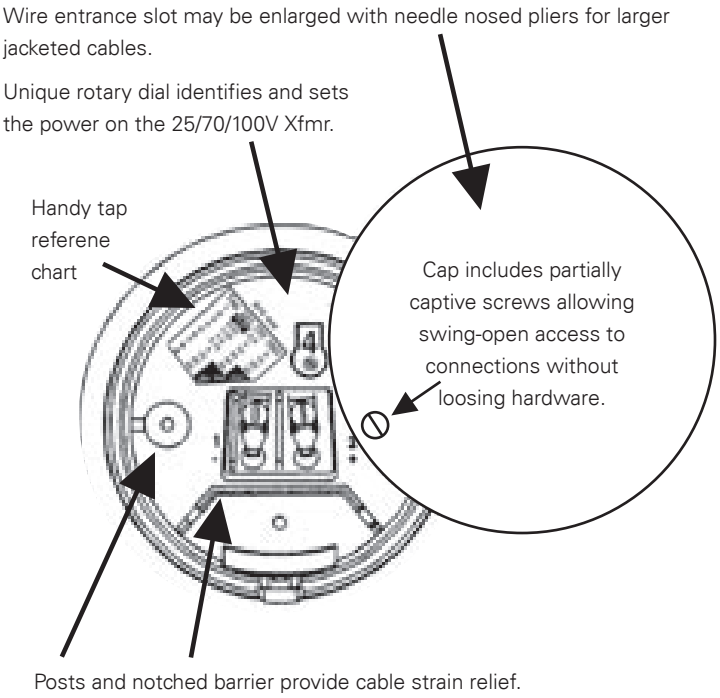


Conventional Beamwidth
Collapsing Coverage
Across a Wide Freq. Range



** Typical exponential coverage illustrated*

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APX40TN Transformer Power Taps				
Switch Position	Impedance (Ohms)	Watts @ 25V	Watts @ 70.7V	Watts @ 100V
1	2,00	-	2.5	5.0
2	1,00	.63	5.0	10.0
3	500	1.25	10.0	20.0
4	250	2.5	20.0	40.0
5	167	3.75	30.0	X*
6	125	5.0	40.0	X*
7	62.5	10.0	X*	X*
8	31.3	20.0	X*	X*
9	15.6	40.0	X*	X*

(*DO NOT USE)

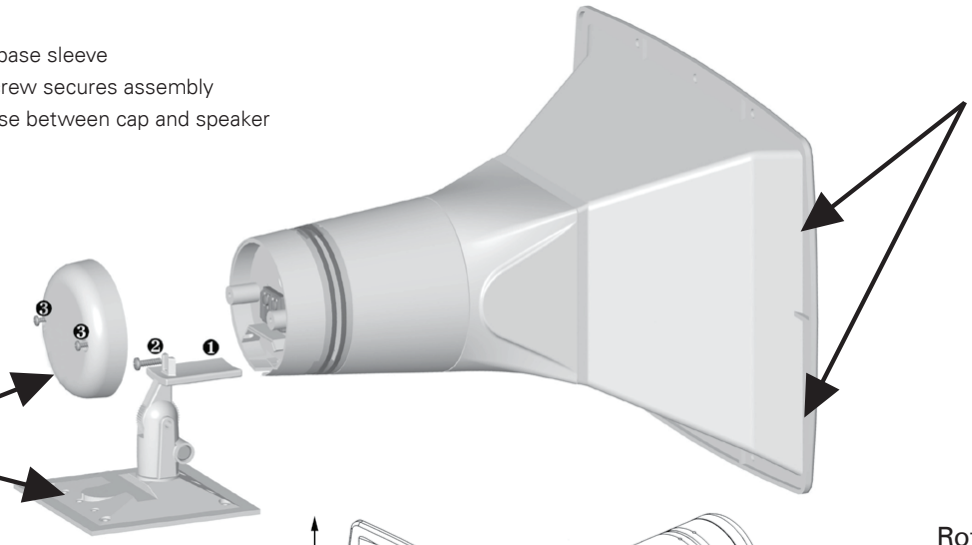
Frequency (Hz)	Q	(dB) Di	Beamwidth Horizontal	(Degrees) Vertical
500	6	7	120	140
1000	15	12	80	100
2000	26	14	60	60
4000	27	14	60	40
8000	36	16	50	40

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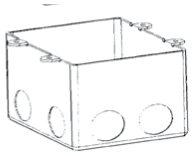
Triple Lock Security

Loudspeaker quickly snap-locks to base to allow easy wiring connections, then secures with screws to withstand weather conditions and external forces that, traditionally, cause sagging or repositioning of the louspeaker bell.

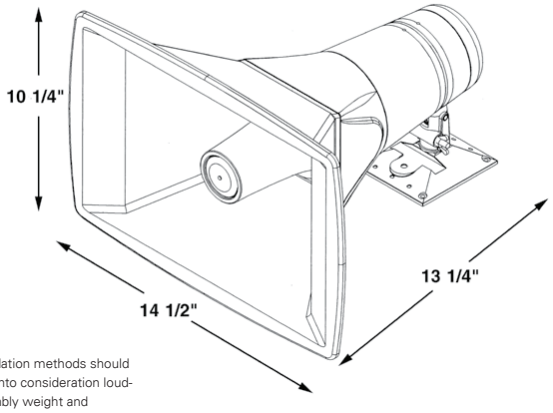
1. Loudspeaker snap-locks to base sleeve
2. Snap-lock Plastite® type screw secures assembly
3. Security cap scew-locks base between cap and speaker with (2) two screws



Multi-purpose base accepts 1-gang, 2-gang or 4" Sq. E.O. Boxes in recessed, surface, indoor or outdoor styles.



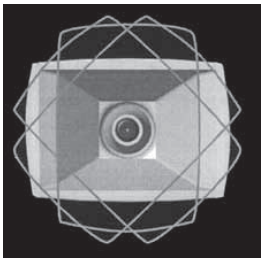
The base may also be clamped or band mounted to poles or beams, removed for flush/bulkhead installation, or removed to retrofit exisiting speaker installations with AP Series Omni-Purpose® mount.



Note: All installation methods should carefully take into consideration loud-speaker assembly weight and environmental conditions.

Rotating Bell

Lets you respond to specific coverage needs quickly in precise 15° increments. Allows full 360° rotation.



MODEL	POWER RATING	NOMINAL FREQ.	SOUND LEVEL		DISPERSION	IMPEDANCE	DIMENSIONS	WEIGHT
			*PEAK	**RP/1M, 1W/1M				
APX40TN	40 Watts	400 7500Hz	124dB	120, 107dB 500-5000 Hz (±5dB)	60° x 40°	***	14 1/2"W 10 1/4" H 13 1/4"D	6 lbs. 2.7 kg

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Product: 6T00UP

Audio Cable, 2 Conductor 10 AWG BC, CL2P

Product Description

Commercial Audio Cable, 2 Conductor 10 AWG highly flexible stranded (65x28) bare copper conductors with Flamarrest® insulation, CL2P, Flamarrest® jacket with ripcord

Technical Specifications

Product Overview

Suitable Applications:	High Flex Audio/Speaker

Construction Details

Conductor

Element	Number of Element	AWG	Stranding	Material
Conductor(s)	2	10	65x28	BC - Bare Copper

Insulation

Element	Material	Thickness [in.]	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.011	Black, White

Outer Shield Material

Material
No Shield

Outer Jacket Material

Material	Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.017 in	0.302 in	Yes

Cable Diameter (Nominal):	0.302 in

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Max. Current
Conductor(s)	1.07 Ohm/1000ft	28 pF/ft	27.8 Amps per Conductor at 25ºC

Voltage

UL Voltage Rating
150 V

Mechanical Characteristics

Temperature

Operating
-20°C to +75°C

Bend Radius

Stationary Min.	Installation Min.
3.1 in	3 in

Max. Pull Tension:	260 lbs
Bulk Cable Weight:	81 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Flammability / Fire Resistance:	NFPA 262, FT6, IEC 60332-1-2
NEC / UL Compliance:	Article 725, CL2P
CPR Euroclass:	Eca
European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	5T00UP

History

Update and Revision:	Revision Number: 0.313 Revision Date: 08-12-2020

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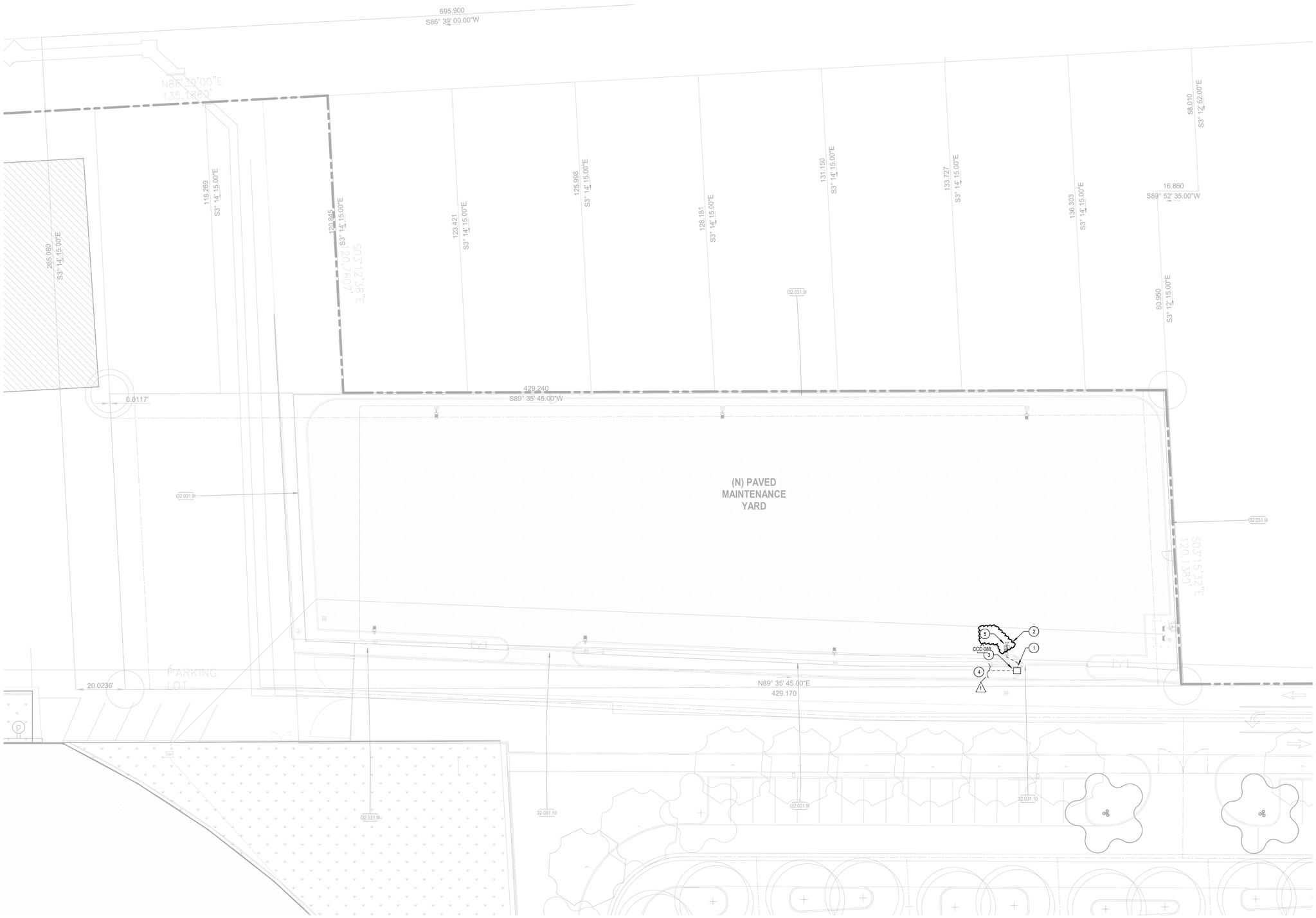
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LEVEL 01 - AREA A - TELECOM PLAN

SCALE: 1/16" = 1'-0"

SHEET NOTES

1. (1) 1-1/4" CONDUIT TO LIGHTING POLE.
2. 360° MULTISENSOR CAMERA MOUNTED TO LIGHTING POLE. PROVIDE 2-STRAND OS2 SINGLEMODE INDOOR/OUTDOOR RATED FIBER TO FIBER-TO-COPPER MEDIA CONVERTER TO SERVE CAMERA. FIBER OPTIC CABLE TO TERMINATE IN BUILDING BDF. PROVIDE PULL BOX WITH A FIBER ENCLOSURE AND A REQUIRED 802.3AF / 802.3AT POE SWITCH TO PROVIDE THE CAMERAS POWER. FROM THE SWITCH A CAT 6 PATCH CORD WILL RUN TO THE CAMERAS. (VERKADA CF81-E OUTDOOR FISHEYE CAMERA). SEE DETAIL 1/TE6.1
3. TELECOMMUNICATIONS PULL BOX. SEE SITE PLAN FOR MORE INFORMATION.
4. CONDUITS TO SITE. SEE SITE PLAN FOR MORE INFORMATION.
5. OUTDOOR SPEAKER EQUAL TO ATLAS IED APX40TN. MOUNT SPEAKER AT EXISTING POLE. PROVIDE 2PR#10 CABLE, EQUAL TO BELDEN 6T00UP. RUN THE SPEAKER CABLING UP TO ATHLETIC FIELD BUILDING IDF ROOM. WITHIN ATHLETIC FIELD IDF ROOM, PROVIDE AUDIO AMPLIFIER WITH DATA CONNECTION. COORDINATE WITH SCHOOL DISTRICT FOR IP ADDRESS. PROVIDE ALL REQUIRED CONNECTIONS AND APPURTENANCES.

CCD 088

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REGISTERED PROFESSIONAL ENGINEER
NORMAN E. PATMA
REG. # E15980
6/30/27
STATE OF CALIFORNIA

COMPTON USD

COMPTON HS PHASE 3
ADDITIONAL PARKING FOR PERFORMING ARTS CENTER

601 S Acacia Ave,
Compton, CA 90220.

CONSTRUCTION DOCUMENTS
08/23/2024

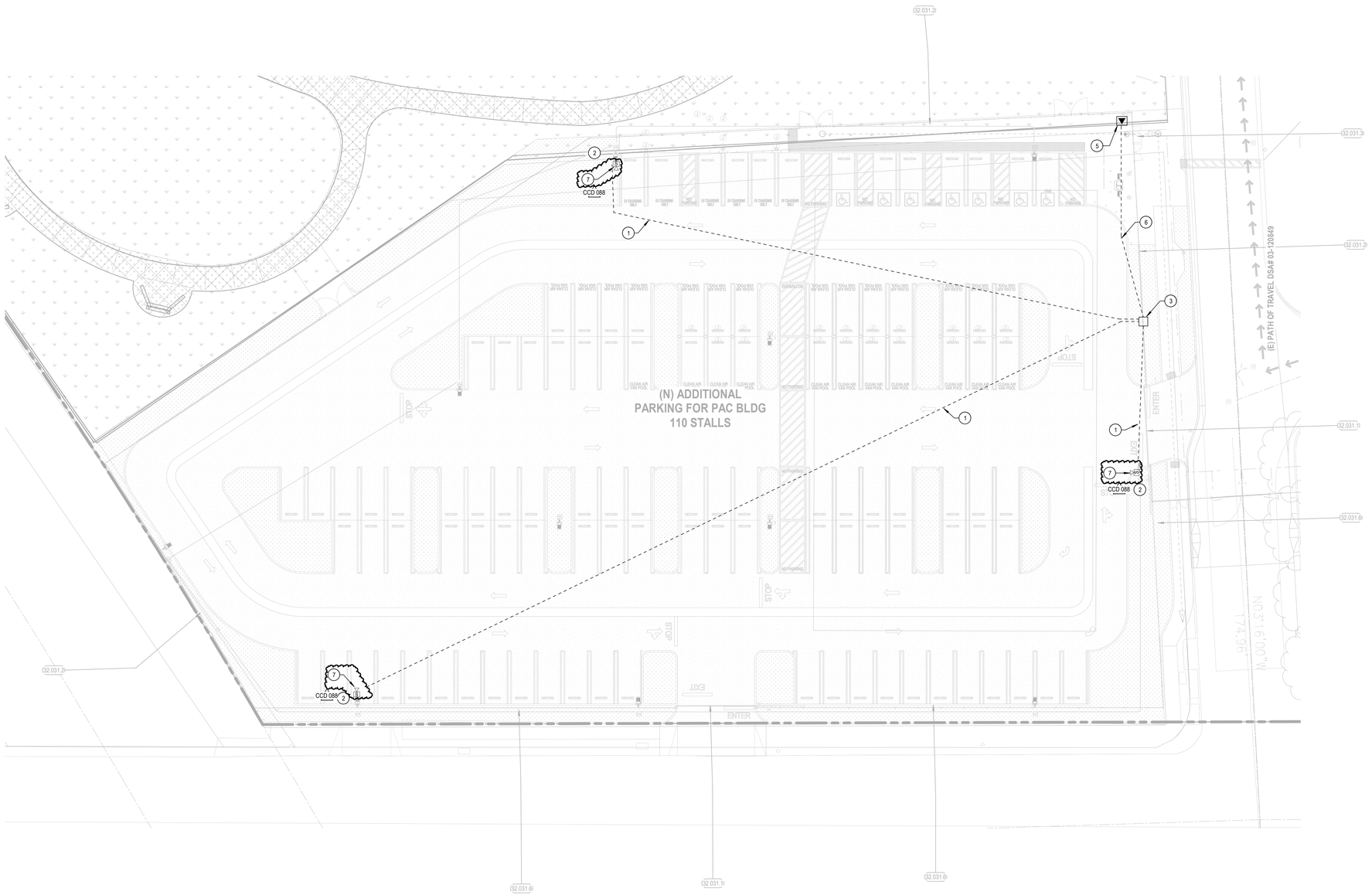
REVISIONS
1 3/19/2025
RFI 045 10/09/25
CCD 088 02/27/2026

75-24326-00

DSA A# 03-124615
DSA FILE # 19-H7

LEVEL 01 - AREA A - TELECOM & SECURITY PLAN

TE1.1A



SHEET NOTES

1. (1) 1-1/4" CONDUIT TO LIGHTING POLE.
2. 360° MULTISENSOR CAMERA MOUNTED TO LIGHTING POLE. PROVIDE 2-STRAND OS2 SINGLEMODE INDOOR/OUTDOOR RATED FIBER TO FIBER-TO-COPPER MEDIA CONVERTER TO SERVE CAMERA. FIBER OPTIC CABLE TO TERMINATE IN BUILDING BDF. PROVIDE PULL BOX WITH A FIBER ENCLOSURE AND A REQUIRED 802.3AF / 802.3AT POE SWITCH TO PROVIDE THE CAMERAS POWER. FROM THE SWITCH A CAT 6 PATCH CORD WILL RUN TO THE CAMERAS. (VERKADA CF81-E OUTDOOR FISHEYE CAMERA). SEE DETAIL 1/TE6.1
3. TELECOMMUNICATIONS PULL BOX. SEE SITE PLAN FOR MORE INFORMATION.
4. NOT USED.
5. EMERGENCY BLUE PHONE, BOD TALKAPHONE ETP-MT-72. PROVIDE 2-STRAND OS2 SINGLEMODE INDOOR/OUTDOOR RATED FIBER TO FIBER-TO-COPPER MEDIA CONVERTER TO SERVE EMERGENCY PHONE. FIBER OPTIC CABLE TO TERMINATE IN BUILDING BDF. SEE SITE PLAN FOR MORE INFORMATION AND COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.
6. (1) 1-1/4" CONDUIT TO EMERGENCY PHONE.
7. OUTDOOR SPEAKER EQUAL TO ATLAS IED APX40TN. MOUNT SPEAKER AT EXISTING POLE. PROVIDE 2PR#10 CABLE, EQUAL TO BELDEN 6T00UP. RUN THE SPEAKER CABLING UP TO PAC BUILDING IDF ROOM. WITHIN PAC BUILDING IDF ROOM, PROVIDE AUDIO AMPLIFIER WITH DATA CONNECTION, COORDINATE WITH SCHOOL DISTRICT FOR IP ADDRESS. PROVIDE ALL REQUIRED CONNECTIONS AND APPURTENANCES

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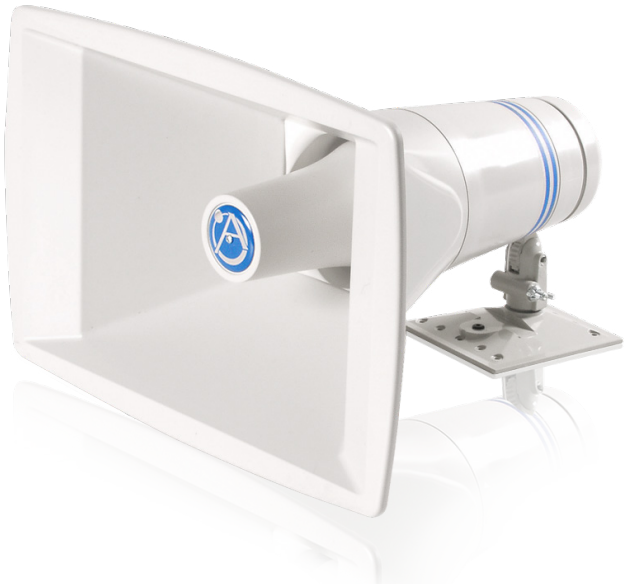
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DSA FILE # 19-H7

LEVEL 01 - AREA B - TELECOM & SECURITY PLAN

TE1.1B

APX40TN

Constant-Directivity Paging Loudspeakers



Features

- Controlled Coverage of 60° x 40° Across a Wide Frequency Range for Predictable Beamwidth Control
- 40 Watt Models For Better Output Over Competitive 15 & 30 Watt Standards
- Triple Lock Horn-to-Base Mounting Method Speeds Installation and Insures Long-Term Stability
- Rotating Bell Pivots in 15° Increments for Exact On-Site Positioning of Projection Angles Detailed in Acoustic Simulation Programs
- Rear Cap Includes Partially-Captive Screws (No Loose Parts) for Swing-Open Access to Power Taps and Wire Connections. Cap Includes Knockout for Conduit Connection
- Sturdy Die-Cast Base Includes Provisions for Flex Conduit and May Be Mounted to 1-gang, 2-gang, and 4" Square E.O. Boxes, Banded to Poles or Removed for Easy Retrofit of Existing AP Series Loudspeakers
- Loudspeaker is Molded of High-Impact, Neutral- Grey Polycarbonate Resin with UV Light Inhibitor Preventing Embrittlement or Discoloration
- Universal 25/70/100V Transformer Includes a Rotary-Dial Selector for Easy Tap Identification
- Speaker Mounting is Backwards Compatible to AP Series– Simply Remove Base and Mount to Omni- Purpose® Bracket

"X"-tra Value Features

- Rotating Bell
- Triple Lock Security
- "Power Stripe" Code
- Quality Materials

"X"-tra Easy Installation

- Universal base mounts 1-gang, 2-gang or 4" sq. E.O. boxes.
- 40 watt model includes 30 watt tap @ 70V.

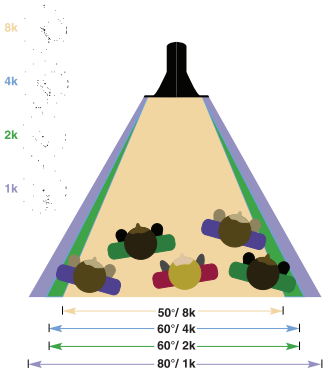
"X"-tra Predictability

- Clear Messaging and Music
- Consistent Beamwidth Control
- Fewer Speakers to Provide Quality Communications

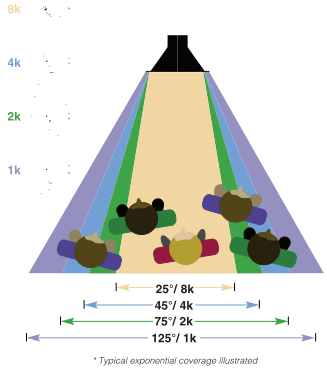
General Description

Model APX40TN a conservatively rated 40 watt, constant-directivity paging loudspeakers for use in public address or paging applications. 40 watt model has a 40 watt tap at 70V. Environment-resistant units feature a 60° x 40° (±10°) constant-dispersion pattern across the controlled frequency band of 1.25-10 kHz. The rotating bell pivots in precise 15° increments for exact on-site positioning of projection angles. A triple lock security mounting method saves installation time and provides long-term stability. APX models are equipped with an internal 25/70.7/100 volt transformer with screw terminal connections made beneath the rear cap. Rear cap will facilitate armored cable. Power stripe code around the driver assembly provides identification of power rating from a distance. Loudspeaker mounts to die-cast zinc base. Pre-mount the base to a standard 1-gang, 2-gang, or 4" sq. E.O. box. If replacing AP Series speakers, simply remove the APX base and mount to the Omni-Purpose® bracket. Finish is neutral.

APX Beamwidth
Controlled Coverage
Across a Wide Freq. Range

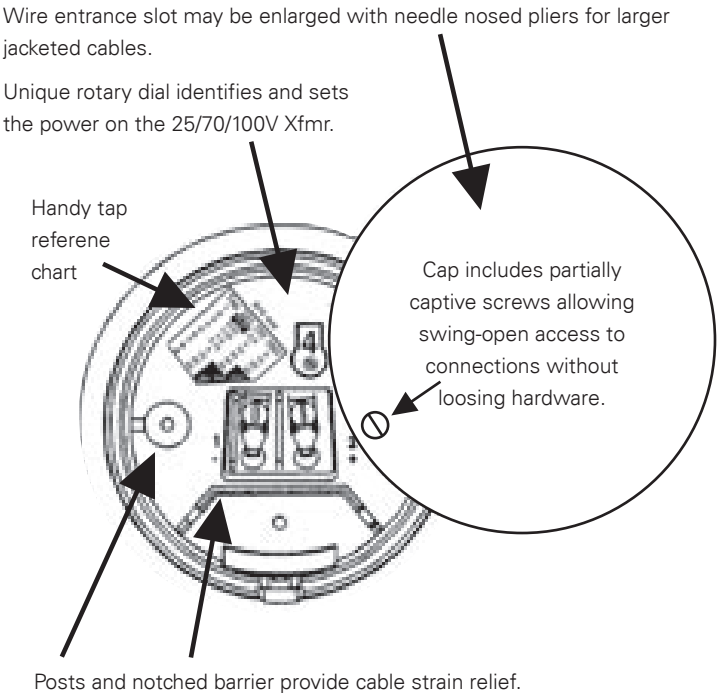


Conventional Beamwidth
Collapsing Coverage
Across a Wide Freq. Range



** Typical exponential coverage illustrated*

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APX40TN Transformer Power Taps				
Switch Position	Impedance (Ohms)	Watts @ 25V	Watts @ 70.7V	Watts @ 100V
1	2,00	-	2.5	5.0
2	1,00	.63	5.0	10.0
3	500	1.25	10.0	20.0
4	250	2.5	20.0	40.0
5	167	3.75	30.0	X*
6	125	5.0	40.0	X*
7	62.5	10.0	X*	X*
8	31.3	20.0	X*	X*
9	15.6	40.0	X*	X*

(*DO NOT USE)

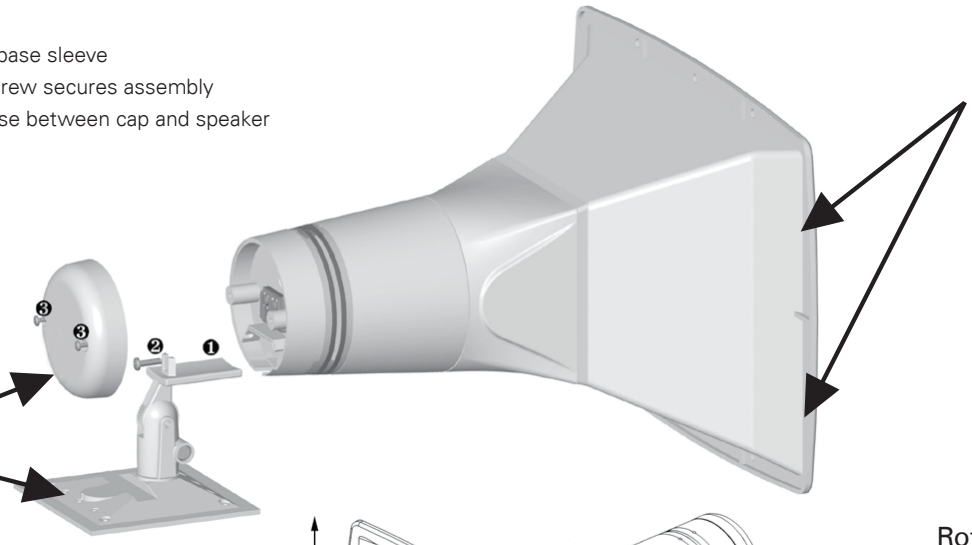
Frequency (Hz)	Q	(dB) Di	Beamwidth Horizontal	(Degrees) Vertical
500	6	7	120	140
1000	15	12	80	100
2000	26	14	60	60
4000	27	14	60	40
8000	36	16	50	40

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All other Trademarks are property of their respective owners. No endorsement is implied. Due to continual product development, specifications are subject to change without notice. ATS001717 RevB 5/21

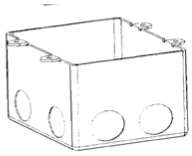
Triple Lock Security

Loudspeaker quickly snap-locks to base to allow easy wiring connections, then secures with screws to withstand weather conditions and external forces that, traditionally, cause sagging or repositioning of the louspeaker bell.

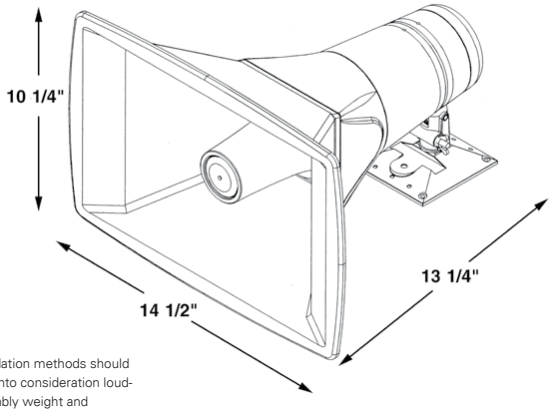
1. Loudspeaker snap-locks to base sleeve
2. Snap-lock Plastite® type screw secures assembly
3. Security cap scew-locks base between cap and speaker with (2) two screws



Multi-purpose base accepts 1-gang, 2-gang or 4" Sq. E.O. Boxes in recessed, surface, indoor or outdoor styles.



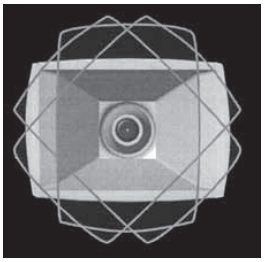
The base may also be clamped or band mounted to poles or beams, removed for flush/bulkhead installation, or removed to retrofit exisiting speaker installations with AP Series Omni-Purpose® mount.



Note: All installation methods should carefully take into consideration loud-speaker assembly weight and environmental conditions.

Rotating Bell

Lets you respond to specific coverage needs quickly in precise 15° increments. Allows full 360° rotation.



MODEL	POWER RATING	NOMINAL FREQ.	SOUND LEVEL		DISPERSION	IMPEDANCE	DIMENSIONS	WEIGHT
			*PEAK	**RP/1M, 1W/1M				
APX40TN	40 Watts	400 7500Hz	124dB	120, 107dB 500-5000 Hz (±5dB)	60° x 40°	***	14 1/2"W 10 1/4" H 13 1/4"D	6 lbs. 2.7 kg

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Product: 6T00UP

Audio Cable, 2 Conductor 10 AWG BC, CL2P

Product Description

Commercial Audio Cable, 2 Conductor 10 AWG highly flexible stranded (65x28) bare copper conductors with Flamarrest® insulation, CL2P, Flamarrest® jacket with ripcord

Technical Specifications

Product Overview

Suitable Applications:	High Flex Audio/Speaker

Construction Details

Conductor

Element	Number of Element	AWG	Stranding	Material
Conductor(s)	2	10	65x28	BC - Bare Copper

Insulation

Element	Material	Thickness [in.]	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.011	Black, White

Outer Shield Material

Material
No Shield

Outer Jacket Material

Material	Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.017 in	0.302 in	Yes

Cable Diameter (Nominal):	0.302 in

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Max. Current
Conductor(s)	1.07 Ohm/1000ft	28 pF/ft	27.8 Amps per Conductor at 25ºC

Voltage

UL Voltage Rating
150 V

Mechanical Characteristics

Temperature

Operating
-20°C to +75°C

Bend Radius

Stationary Min.	Installation Min.
3.1 in	3 in

Max. Pull Tension:	260 lbs
Bulk Cable Weight:	81 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Flammability / Fire Resistance:	NFPA 262, FT6, IEC 60332-1-2
NEC / UL Compliance:	Article 725, CL2P
CPR Euroclass:	Eca
European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	5T00UP

History

Update and Revision:	Revision Number: 0.313 Revision Date: 08-12-2020

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CONTRACTOR SHALL REFER TO ARCHITECTURAL SECTIONS AND ELEVATIONS FOR DEVICE PLACEMENT.

COMMUNICATION SYMBOLS

SYMBOL	DESCRIPTION
THE NUMBER NEXT TO THE SYMBOL REPRESENTS UTP CABLE COUNT	WALL MOUNTED WORKSTATION/DESK TELECOMMUNICATION OUTLET SHALL BE MOUNTED @ 1'-6" AFF TO CENTER OF BACK BOX. CONTRACTOR TO PROVIDE NEW 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH SINGLE GANG PLASTER RING, 1-1/4" CONDUIT WITH BUSHINGS AND PULL WIRE EXTENDED BACK TO NEAREST ACCESSIBLE CEILING. CONTRACTOR TO PROVIDE NEW CATEGORY 6A UTP CABLE FROM TELECOM CLOSET/ROOM TO OUTLET LOCATION AS SHOWN AND TERMINATE WITH RJ45 IN FACEPLATE AS INDICATED IN TELECOM DOCUMENTS.
C THE NUMBER NEXT TO THE SYMBOL REPRESENTS UTP CABLE COUNT	WALL MOUNTED TELECOMMUNICATION OUTLET SHALL BE MOUNTED @ 8" ABOVE FINISHED COUNTERTOP TO CENTER OF BACK BOX. CONTRACTOR TO PROVIDE NEW 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH SINGLE GANG PLASTER RING, 1-1/4" CONDUIT WITH BUSHINGS AND PULL WIRE EXTENDED BACK TO NEAREST ACCESSIBLE CEILING. CONTRACTOR TO PROVIDE NEW CATEGORY 6A UTP CABLE FROM TELECOM CLOSET/ROOM TO OUTLET LOCATION AS SHOWN AND TERMINATE WITH RJ45 IN FACEPLATE AS INDICATED IN TELECOM DOCUMENTS.
G THE NUMBER NEXT TO THE SYMBOL REPRESENTS UTP CABLE COUNT	SYSTEMS FURNITURE TELECOMMUNICATION WALL FEED OUTLET SHALL BE MOUNTED @ 1'-6" AFF TO CENTER OF BACK BOX. CONTRACTOR TO PROVIDE NEW 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH SINGLE GANG PLASTER RING, 1-1/4" CONDUIT WITH BUSHINGS AND PULL WIRE EXTENDED BACK TO NEAREST ACCESSIBLE CEILING.
F THE NUMBER NEXT TO THE SYMBOL REPRESENTS UTP CABLE COUNT	SYSTEMS FURNITURE TELECOMMUNICATION OUTLET PROVIDED WITH FURNITURE. CONTRACTOR TO PROVIDE NEW CATEGORY 6A UTP CABLE FROM TELECOM CLOSET/ROOM TO OUTLET LOCATION AND TERMINATE WITH RJ45 IN FURNITURE FACEPLATE AS INDICATED IN TELECOM DOCUMENTS.
THE NUMBER NEXT TO THE SYMBOL REPRESENTS UTP CABLE COUNT	TELECOMMUNICATION FLOOR OUTLET. CONTRACTOR TO PROVIDE POKE-THRU/FLOOR BOX AND 1-1/4" CONDUIT WITH BUSHINGS AND PULL WIRE EXTENDED BACK TO NEAREST ACCESSIBLE CEILING AS NECESSARY. CONTRACTOR TO PROVIDE NEW CATEGORY 6A UTP CABLE FROM TELECOM CLOSET/ROOM TO DEVICE LOCATION AS SHOWN AND TERMINATE WITH RJ45 MODULES IN FACEPLATE AS INDICATED IN TELECOM DOCUMENTS.
THE NUMBER NEXT TO THE SYMBOL REPRESENTS UTP CABLE COUNT	TELECOMMUNICATION CEILING OUTLET. WAP = WIRELESS ACCESS POINT. HARD CEILING LOCATIONS: CONTRACTOR TO PROVIDE NEW 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH SINGLE GANG PLASTER RING, 1" CONDUIT WITH BUSHINGS AND PULL WIRE EXTENDED BACK TO NEAREST ACCESSIBLE CEILING. CONTRACTOR TO PROVIDE NEW CATEGORY 6A UTP CABLE FROM TELECOM CLOSET/ROOM TO OUTLET LOCATION AS SHOWN AND TERMINATE WITH RJ45 PLUG. LEAVE 12" OF SLACK NEATLY COILED IN BACK BOX. ACCESSIBLE CEILING LOCATIONS: CONTRACTOR TO PROVIDE NEW CATEGORY 6A UTP CABLE FROM TELECOM CLOSET/ROOM TO WAP LOCATION AS SHOWN AND TERMINATE IN SURFACE MOUNT OUTLET BOX WITH RJ45 JACKS. LEAVE 20'-0" OF SLACK NEATLY COILED ABOVE CEILING AT SURFACE MOUNT BOX LOCATION.
W THE NUMBER NEXT TO THE SYMBOL REPRESENTS UTP CABLE COUNT	WALL MOUNTED TELEPHONE OUTLET SHALL BE MOUNTED @ 4'-0" AFF TO CENTER OF BACK BOX. CONTRACTOR TO PROVIDE NEW 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH SINGLE GANG PLASTER RING, 1-1/4" CONDUIT WITH BUSHINGS AND PULL WIRE EXTENDED BACK TO NEAREST ACCESSIBLE CEILING. CONTRACTOR TO PROVIDE NEW CATEGORY 6A UTP CABLE FROM TELECOM CLOSET/ROOM TO OUTLET LOCATION AS SHOWN AND TERMINATE WITH RJ45 IN FACEPLATE AS INDICATED IN TELECOM DOCUMENTS.
AV# THE NUMBER NEXT TO THE SYMBOL REPRESENTS UTP CABLE COUNT	TELECOMMUNICATION CABLE TERMINATED IN AV BOX / DEVICE COORDINATE WITH AUDIOVISUAL. CONTRACTOR TO PROVIDE NEW CATEGORY 6A UTP CABLE FROM TELECOM CLOSET/ROOM TO OUTLET LOCATION AS SHOWN AND TERMINATE WITH MALER J45 PLUG.
BAS	WALL MOUNTED BUILDING AUTOMATION SYSTEMS OUTLET SHALL BE MOUNTED @ 5'-6" AFF TO CENTER OF BACK BOX. CONTRACTOR TO PROVIDE NEW 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH SINGLE GANG PLASTER RING, 1-1/4" CONDUIT WITH BUSHINGS AND PULL WIRE EXTENDED BACK TO NEAREST ACCESSIBLE CEILING. CONTRACTOR TO PROVIDE NEW CATEGORY 6A UTP CABLE FROM TELECOM CLOSET/ROOM TO OUTLET LOCATION AS SHOWN AND TERMINATE WITH RJ45 IN FACEPLATE AS INDICATED IN TELECOM DOCUMENTS.
EL	WALL MOUNTED ELEVATOR COMMUNICATION OUTLET SHALL BE MOUNTED @ 5'-6" AFF TO CENTER OF BACK BOX. CONTRACTOR TO PROVIDE NEW 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH SINGLE GANG PLASTER RING, 1-1/4" CONDUIT WITH BUSHINGS AND PULL WIRE EXTENDED BACK TO NEAREST ACCESSIBLE CEILING. CONTRACTOR TO PROVIDE NEW CATEGORY 6A UTP CABLE FROM TELECOM CLOSET/ROOM TO OUTLET LOCATION AS SHOWN AND TERMINATE WITH RJ45 IN FACEPLATE AS INDICATED IN TELECOM DOCUMENTS.
FACP	WALL MOUNTED FIRE ALARM CONTROL PANEL CONNECTION OUTLET SHALL BE MOUNTED @ 5'-6" AFF TO CENTER OF BACK BOX. CONTRACTOR TO PROVIDE NEW 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH SINGLE GANG PLASTER RING, 1-1/4" CONDUIT WITH BUSHINGS AND PULL WIRE EXTENDED BACK TO NEAREST ACCESSIBLE CEILING. CONTRACTOR TO PROVIDE NEW CATEGORY 6A STP CABLE FROM TELECOM CLOSET/ROOM TO OUTLET LOCATION AS SHOWN AND TERMINATE WITH RJ31X IN FACEPLATE AS INDICATED IN TELECOM DOCUMENTS.
IC_S	WALL MOUNTED INTERCOM SUB-STATION OUTLET SHALL BE MOUNTED @ 3'-6" AFF TO CENTER OF BACK BOX. CONTRACTOR TO PROVIDE NEW 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH SINGLE GANG PLASTER RING, 1-1/4" CONDUIT WITH BUSHINGS AND PULL WIRE EXTENDED BACK TO NEAREST ACCESSIBLE CEILING. CONTRACTOR TO PROVIDE NEW CATEGORY 6A UTP CABLE FROM TELECOM CLOSET/ROOM TO OUTLET LOCATION AS SHOWN AND TERMINATE WITH RJ45 PLUG.
IC	WALL MOUNTED INTERCOM MASTER STATION OUTLET SHALL BE MOUNTED @ 6" ABOVE COUNTER TOP TO CENTER OF BACK BOX. CONTRACTOR TO PROVIDE NEW 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH SINGLE GANG PLASTER RING, 1-1/4" CONDUIT WITH BUSHINGS AND PULL WIRE EXTENDED BACK TO NEAREST ACCESSIBLE CEILING. CONTRACTOR TO PROVIDE NEW CATEGORY 6A UTP CABLE FROM TELECOM CLOSET/ROOM TO OUTLET LOCATION AS SHOWN AND TERMINATE WITH RJ45 PLUG.
© BASIS OF DESIGN ATLAS IED - IISCMF+, WITH SEA-IISC	WALL MOUNTED IP (PoE) CLOCK/SPEAKER LOCATION. CONTRACTOR TO PROVIDE NEW CATEGORY 6A UTP CABLE FROM TELECOM CLOSET/ROOM TO OUTLET LOCATION AS SHOWN AND TERMINATE WITH RJ45 PLUG.

COMMUNICATION SYMBOLS

SYMBOL	DESCRIPTION
CR REFER TO ARCHITECTURAL DOOR SCHEDULES SHEETS A9.01 THRU A9.03 FOR ALL DOORS REQUIRING CARD ACCESS.	WALL MOUNTED CARD READER LOCATION, OUTLET SHALL BE MOUNTED @ 3'-6" AFF TO CENTER OF BACK BOX. CONTRACTOR TO PROVIDE NEW 4" SQUARE BY 2-1/8" DEEP BACK BOX WITH 3/4" CONDUIT TO 12"x12"x6" J-BOX ABOVE CEILING ON SECURE SIDE OF DOOR, AND EXTEND 1" CONDUIT WITH BUSHING AND PULL WIRE BACK TO SECURE SIDE OF NEAREST TELECOM CLOSET/ROOM. CONTRACTOR TO PROVIDE NEW BELDEN - 658AFJ CABLE FROM TELECOM CLOSET/ROOM TO 12"x12"x6" J-BOX LOCATION NEAR DOOR. TC SHALL PROVIDE ENOUGH CABLE AND LEAVE ENOUGH SLACK TO TERMINATE DEVICES AS REQUIRED PER DOOR HARDWARE SCHEDULE.
DC DOOR POSITION SWITCH SHALL BE BY-PASSED AT CONTROL PANEL DURING OPEN HOURS AS REQUIRED TO ALLOW BUILDING ACCESS. COORDINATE WITH CUSD.	DOOR POSITION SWITCH MOUNTED IN DOOR FRAME. CONTRACTOR TO PROVIDE NEW 3/4" CONDUIT TO 12"x12"x6" J-BOX ABOVE CEILING ON SECURE SIDE OF DOOR, AND EXTEND 1" CONDUIT WITH BUSHING AND PULL WIRE BACK TO SECURE SIDE OF NEAREST TELECOM CLOSET/ROOM. CONTRACTOR TO PROVIDE NEW BELDEN - 658AFJ CABLE FROM TELECOM CLOSET/ROOM TO 12"x12"x6" J-BOX LOCATION NEAR DOOR. TC SHALL PROVIDE ENOUGH CABLE AND LEAVE ENOUGH SLACK TO TERMINATE DEVICES AS REQUIRED PER DOOR HARDWARE SCHEDULE.
	WALL MOUNTED CCTV CAMERA LOCATION. OUTLET SHALL BE MOUNTED @ 10'-0" AFF TO CENTER OF BACK BOX. CONTRACTOR TO PROVIDE NEW 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH SINGLE GANG PLASTER RING. 1" CONDUIT WITH BUSHINGS AND PULL WIRE EXTENDED BACK TO NEAREST ACCESSIBLE CEILING. CONTRACTOR TO PROVIDE NEW CATEGORY 6A UTP CABLE FROM CCTV SYSTEM HEAD END TO CAMERA LOCATION AS SHOWN AND TERMINATE WITH RJ45 PLUG. LEAVE 12" OF SLACK NEATLY COILED IN BACK BOX.
	CEILING MOUNTED CCTV CAMERA LOCATION. HARD CEILING LOCATIONS: CONTRACTOR TO PROVIDE NEW 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH SINGLE GANG PLASTER RING, 1" CONDUIT WITH BUSHINGS AND PULL WIRE EXTENDED BACK TO NEAREST ACCESSIBLE CEILING. CONTRACTOR TO PROVIDE NEW CATEGORY 6A UTP CABLE FROM CCTV SYSTEM HEAD END TO CAMERA LOCATION AS SHOWN AND TERMINATE WITH RJ45 PLUG. LEAVE 12" OF SLACK NEATLY COILED IN BACK BOX FOR CONNECTION TO CAMERA BY CAMERA INSTALLER.
ONE-LINE	TELECOMMUNICATION FIBER, COPPER, COAXIAL CROSS CONNECT
PP	COPPER SERVICE PRIMARY PROTECTION, BY SERVICE PROVIDER.

COMMUNICATION ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
1PH	SINGLE-PHASE	REX	REQUEST TO EXIT
1P	SINGLE POLE	RU	RACK UNIT
2/C	TWO-CONDUCTOR		
3/C	THREE-CONDUCTOR		
3PH	THREE-PHASE	ScTP	SCREENED TWISTED PAIR
4/C	FOUR-CONDUCTOR	SF or SQFT	SQUARE FOOT (FEET)
4W	FOUR-WIRE	SHT	SHEET
		SI	INTERNATIONAL SYSTEM OF UNITS
A/C UNIT	AIR CONDITIONING UNIT	SM	SINGLE-MODE
A/E	ARCHITECT/ENGINEER	SPEC	SPECIFICATION
AAP	ALARM ANNUNCIATOR PANEL	STP	SHIELDED TWISTED PAIR
AC	ALTERNATING CURRENT OR ARMORED CABLE	SURF	SURFACE
ACC	ACCESSIBLE	SW	SWITCH
ADA	AMERICANS WITH DISABILITIES ACT		
ADDL	ADDITIONAL	TB	TELECOMMUNICATIONS BACKBOARD
ADJ	ADJACENT, ADJOINING	TBB	TELECOMMUNICATIONS BONDING BACKBONE
ADO	AUTOMATIC DOOR OPENER	TC	DIVISION 27
AFC	ABOVE FINISHED COUNTER	TCC	TEMPERATURE CONTROL CONTRACTOR
AFF	ABOVE FINISHED FLOOR	TEL	TELEPHONE
AFG	ABOVE FINISHED GRADE	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
AHJ	AUTHORITY HAVING JURISDICTION	TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
ALT	ALTERNATE	TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
AMB OR A	AMBIENT	TP	TWISTED PAIR
ARCH	ARCHITECT	TPS	TWISTED PAIR SHIELDED
ATS	AUTOMATIC TRANSFER SWITCH	TTB	TELEPHONE TERMINAL BOARD
AUTO	AUTOMATIC	TV	TELEVISION
AV	AUDIO VISUAL	TYP	TYPICAL
BAS	BUILDING AUTOMATION SYSTEM	UFD	UNDERFLOOR DUCT
BAT	BATTERY	UGND	UNDERGROUND
BC	BARE COPPER	UL	UNDERWRITERS LABORATORY
BD	BOARD	UON	UNLESS OTHERWISE NOTED
BEF	BUILDING ENTRANCE FACILITY	UPS	UNINTERRUPTIBLE POWER SUPPLY
BFF	BELOW FINISH FLOOR	UTIL	UTILITY
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL	V	VOLT
BLDG	BUILDING		
BPIP	BOILER PLANT INSTRUMENTATION PANEL	WAP	WIRELESS ACCESS POINT
BYP	BY PASS	WP	WEATHERPROOF
C	CONDUIT		
CAB	CABINET		
CALC	CALCULATE		
CAP	CAPACITY		
CAT	CATALOG		
CATV	COMMUNITY ANTENNA TELEVISION		
CBC	COUPLED BONDING CONDUCTOR		
CCR	CONTROL CONTACTOR		
CCTV	CLOSED CIRCUIT TELEVISION		
CD	CONSTRUCTION DOCUMENTS		
CF	CONTRACTOR FURNISHED		
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED		
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED		
CFE	CONTRACTOR FURNISHED EQUIPMENT		
CLG	CEILING		
CM	CONSTRUCTION MANAGER		
CMU	CONCRETE MASONRY UNIT		
COAX	COAX CABLE		
COMM	COMMUNICATION		
COMPT	COMPARTMENT		
CONC	CONCRETE		
CONT	CONTINUE		
CONTR	CONTRACTOR		
COORD	COORDINATE		
CT	CABLE TRAY		
CTV	CABLE TELEVISION		
CU	COPPER		
CU FT	CUBIC FEET		
CUR	CURRENT		
DB	DECIBEL OR DIRECT BURIAL		
DC	DIRECT CURRENT		
DEG C	DEGREES CELSIUS		
DEG F	DEGREES FAHRENHEIT		
DEMO	DEMOLITION		
DIAG	DIAGRAM		
DISTR	DISTRIBUTION		
DN	DOWN		
DRSW	DOOR SWITCH		
DWG	DRAWING		
EC	DIVISION 26 EMPTY CONDUIT		
EG	EQUIPMENT GROUND		
EIA	ELECTRONICS INDUSTRIES ASSOCIATION		
EL	ELEVATION		
ELEC	ELECTRIC OR ELECTRICAL		
ELEV	ELEVATOR		
EMER	EMERGENCY		
EMI	ELECTROMAGNETIC INTERFERENCE		
EMT	ELECTRICAL METALLIC TUBING		
ENCL	ENCLOSURE		
EPO	EMERGENCY POWER OFF		
ESMT	EASEMENT		
ETR	EXISTING TO REMAIN		
EXIST	EXISTING		
FLEX	FLEXIBLE METALLIC CONDUIT		
FOUTT	TELEPHONE FLOOR OUTLET		
FP	FIRE PROTECTION		
FT	FEET OR FOOT		
FU SW	FUSED SWITCH		
G OR GND	GROUND OR GENERATOR		
GC	GENERAL CONTRACOTOR		
GEN	GENERATOR		
GTB	GROUND TERMINAL BOX		
HC	HORIZONTAL CROSS-CONNECT		
HOA	HAND-OFF-AUTOMATIC		
HT	HEIGHT		
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING		
HZ	HERTZ		
IC	INTERMEDIATE CROSS-CONNECT		
IMC	INTERMEDIATE METAL CONDUIT		
IR	INFRARED		
J-BOX	JUNCTION BOX		
LAN	LOCAL AREA NETWORK		
LF	LINEAR FEET (FOOT)		
LTNG	LIGHTNING		
LV	LOW VOLTAGE		
MATV	MASTER ANTENNA TELEVISION SYSTEM		
MAX	MAXIMUM		
MC	MAIN CROSS-CONNECT		
MECH	MECHANICAL		
MH	MANHOLE		
MIN	MINIMUM		
MM	MULTI-MODE		
MT	MOUNT		
MTD	MOUNTED		
MTG	MOUNTING		
MUTOA	MULTI-USER TELECOMMUNICATIONS OUTLET ASSEMBLY		
NA	NOT APPLICABLE		
NEC	NATIONAL ELECTRICAL CODE		
NESC	NATIONAL ELECTRICAL SAFETY CODE		
NEUT OR N	NEUTRAL		
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		
NIC	NOT IN CONTRACT		
NS	NO SCALE		
NTS	NOT TO SCALE		
OC	ON CENTER		
OD	OUTSIDE DIAMETER		
OSP	OUTSIDE PLANT		
P	POLE		
PA	PUBLIC ADDRESS		
PB	PANELBOARD, PULL BOX, OR PUSHBUTTON		
PBPU	PREFABRICATED BEDSIDE PATIENT UNIT		
PED	PEDESTAL		
PEND	PENDANT		
PF	POWER FACTOR		
PH	PHASE		
PNL	PANEL		
PTZ	PAN, TILT, ZOOM		
PVC	POLYVINYL CHLORIDE (PLASTIC)		
PWR	POWER		
RCDD	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGN		
RCP	REFLECTED CEILING PLAN		
REC	RECESSED		
RECPT	RECEPTACLE		
REQD	REQUIRED		
RGS	RIGID GALVANIZED STEEL		
RM	ROOM		

GENERAL NOTES

1) ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR SHAFTS SHALL BE SEALED IN ACCORDANCE WITH TECHNOLOGY FIRESTOPPING SPECIFICATION SECTION.

2) CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS, ELEVATIONS, SECTIONS AND DETAILS. CONTRACTOR SHALL ALSO COORDINATE LOCATIONS OF WORK AREA OUTLETS AND OTHER WALL MOUNTED DEVICES WITH THE ARCHITECTURAL WALL ELEVATIONS AND FINISHES.

3) THE ROUTING OF ALL SURFACE MOUNTED/EXPOSED CONDUIT OR RACEWAY IN FINISHED AREAS (OR WHERE NOTED ON THE DRAWINGS) SHALL BE COORDINATED WITH, AND SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.

4) CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR AND ELECTRICAL EQUIPMENT WITH THE THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL MAKE APPROPRIATE ADJUSTMENTS TO CONDUIT AND RACEWAY LOCATIONS AS REQUIRED, FOR ADDITIONAL REQUIREMENTS, REFER TO TECHNOLOGY PATHWAY HARDWARE SPECIFICATION SECTION.

5) ALL CABLE TRAYS SHALL BE INSTALLED SO AS TO BE U.L. LISTED AS BEING ELECTRICALLY CONTINUOUS FOR GROUNDING PURPOSES, AND SHALL BE BONDED TO AN ACCEPTABLE TELECOMMUNICATIONS GROUND ONLY.

6) ALL PULLBOXES AND JUNCTION BOXES SHALL BE INSTALLED IN A "READILY ACCESSIBLE" LOCATION AND SHALL HAVE PROPER WORKING SPACE AS DEFINED IN NEC ARTICLE 100 AND 110.

7) UTILIZATION OF THE PHRASE "PROVIDED BY" WITHIN THE CONTEXT OF THESE DOCUMENTS SHALL EXPLICITLY REPRESENT "FURNISHED AND INSTALLED BY".

8) AT BUILT- IN CABINET LOCATIONS, OUTLETS ARE TO BE LOCATED ABOVE COUNTER, UNLESS OTHERWISE NOTED.

9) TELE-DATA LOCATIONS AT DESKS TO BE LOCATED BESIDE ELECTRICAL OUTLET TO SUPPLY ALL FUNCTIONS NEEDED TO RUN A COMPUTER COMING FROM ONE LOCATION.

10) ALL DEVICES SHOWN ON TE AND TY SERIES DRAWINGS SHALL WIRE BACK TO NEAREST TELECOM ROOM OR CLOSET.

11) MOUNTING HEIGHTS GIVEN ARE TYPICAL AND SHALL BE COORDINATED WITH ADJACENT POWER AND AV DEVICES PRIOR TO ROUGH-IN INSTALLATION.

12) REFER TO FACEPLATE DETAILS AND TERMINATIONS LEGEND, AND DIVISION 27 AND 28 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

13) CCTV CAMERA CABLE SHALL NOT BE RUN EXPOSED AND VISIBLE BY THE PUBLIC. CONDUIT SHALL BE RUN IN ALL EXPOSED, INACCESSIBLE AREAS AND EXTERIOR LOCATIONS.

14) CONTRACTOR SHALL BE CAREFUL TO NOT DAMAGE TELECOMMUNICATION EQUIPMENT, RACKS AND DEVICES DURING DEMOLITION.

15) CONTRACTOR SHALL TURN OVER ALL EXISTING TELECOMMUNICATION EQUIPMENT, RACKS AND DEVICES OVER TO OWNER.

16) **CATEGORY 6A UTP CABLE PERMANENT LINK LENGTH SHALL NOT EXCEED 295 FEET. CONTRACTOR SHALL INFORM OWNER, ARCHITECT OR TELECOMMUNICATION SYSTEM DESIGNER IMMEDIATELY UPON DISCOVERY AND PRIOR TO PULLING CABLE WHERE THE MAXIMUM LENGTH IS THOUGHT TO BE EXCEEDED.**

17) BACK BOX SHALL BE INSTALLED WITH APPROPRIATE PLASTER RING. CONDUIT SIZE AS INDICATED STUBBED ABOVE ACCESSIBLE CEILING OR TELECOMMUNICATIONS CLOSET, AND SHALL BE INSTALLED WITH PULL STRING AND BUSHINGS AS REQUIRED.

18) ALL CABLING AND WIRING INDICATED IN DIVISIONS 27 AND 28 DRAWINGS AND SPECIFICATIONS SHALL BE PROVIDED BY CONTRACTOR UNLESS NOTED OTHERWISE IN DIVISIONS 27 AND 28 DRAWINGS AND SPECIFICATIONS.

19) CONTRACTOR SHALL COORDINATE ALL PoE / PoE+ CABLE DROP LOCATIONS WITH SCHOOL DISTRICT AND THE AUDIOVISUAL (TA) DRAWINGS AND SPECIFICATIONS.

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Compton, CA 90221

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PTN No.:	73437-0140
File No.:	19-H7

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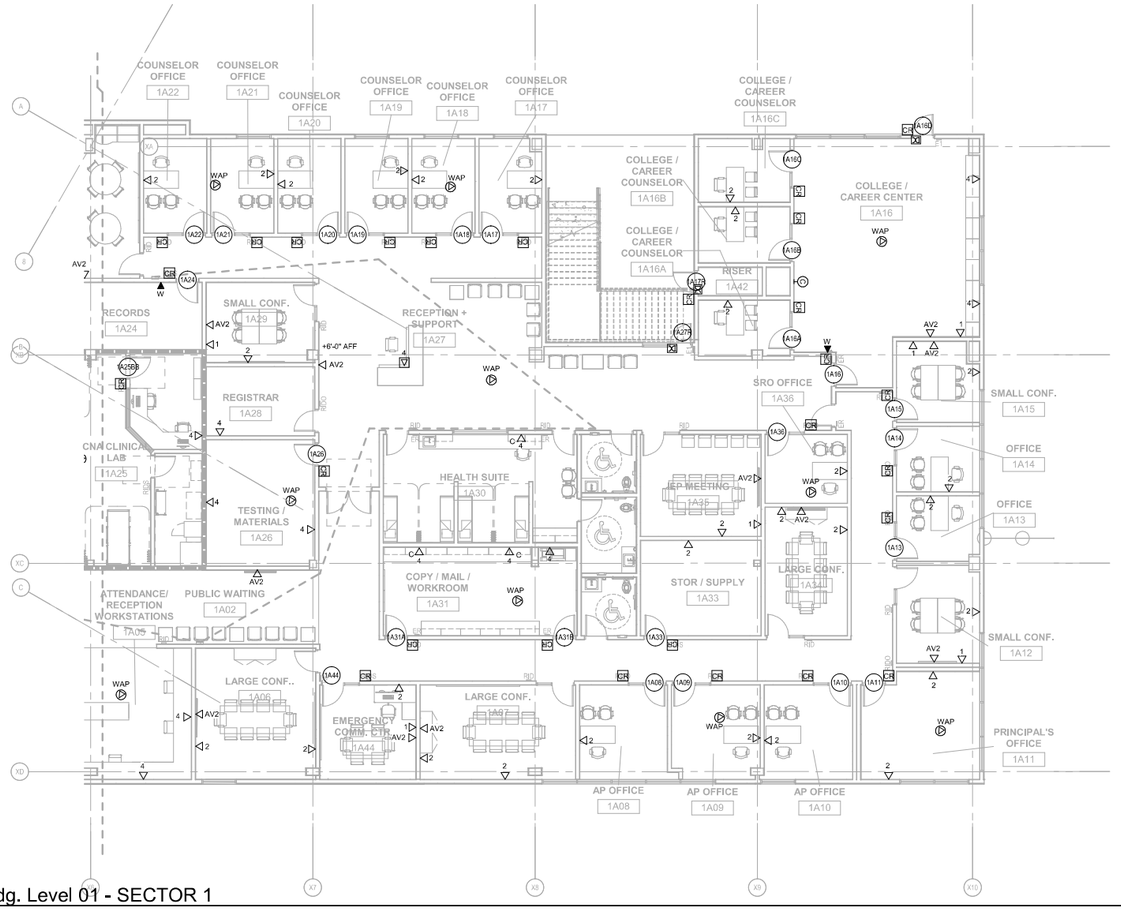
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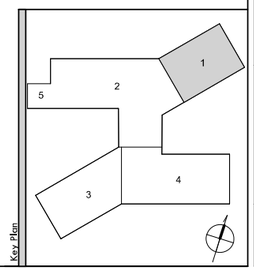
TELECOM ABBREVIATIONS, GENERAL NOTES AND LEGENDS

Sheet No.

TE0.01



1 Academic Bldg. Level 01 - SECTOR 1
1/8" = 1'-0"



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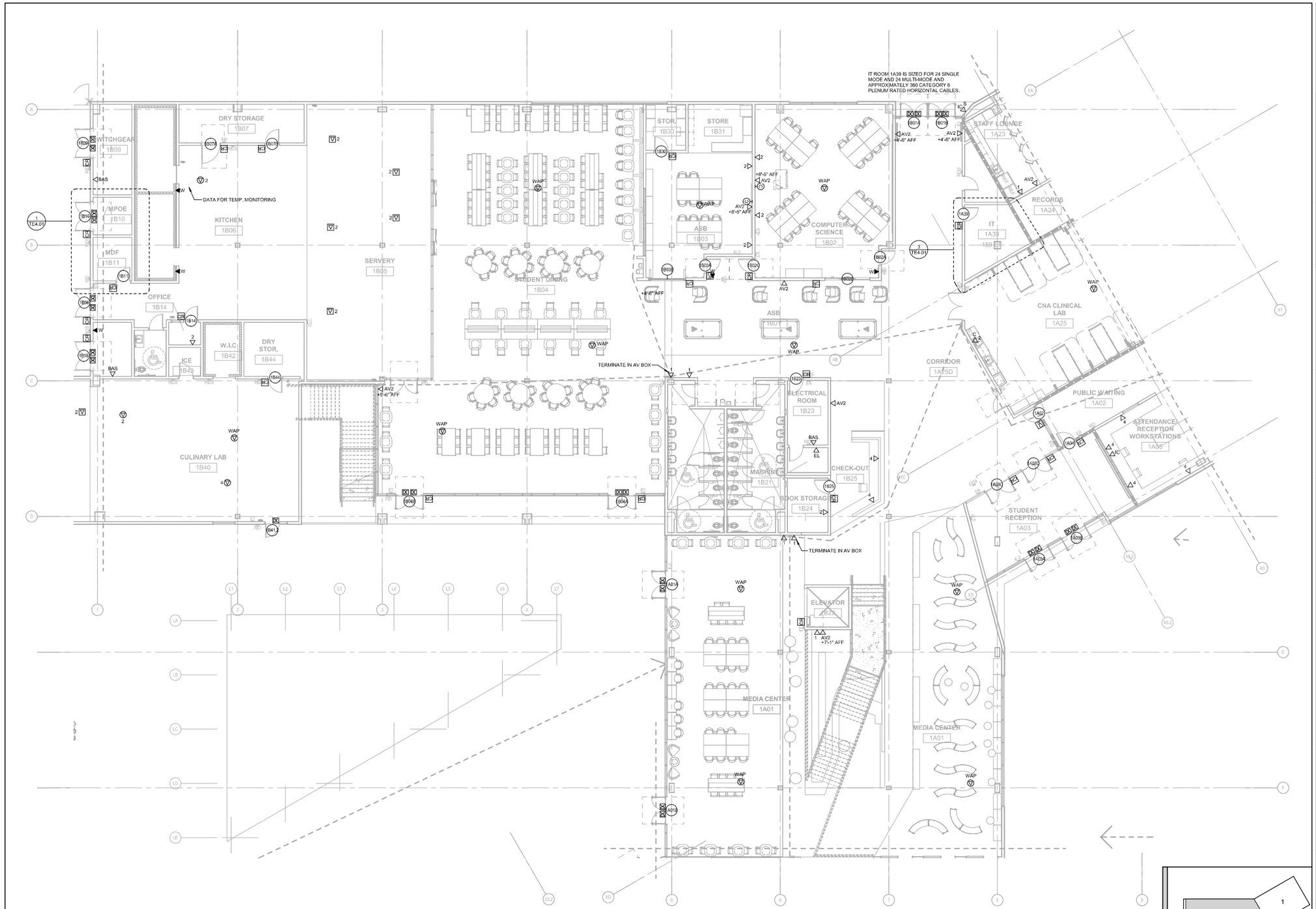
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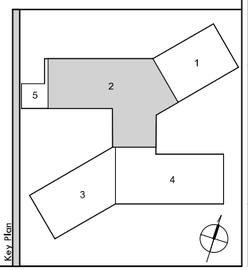
ACA BLDG FLOOR PLAN - SECT. 1 - LVL 1

Sheet No.

TEA1.01



1 Academic Bldg. Level 01 - SECTOR 2
1/8" = 1'-0"



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1 Academic Bldg. Level 01 - SECTOR 4

1/8" = 1'-0"

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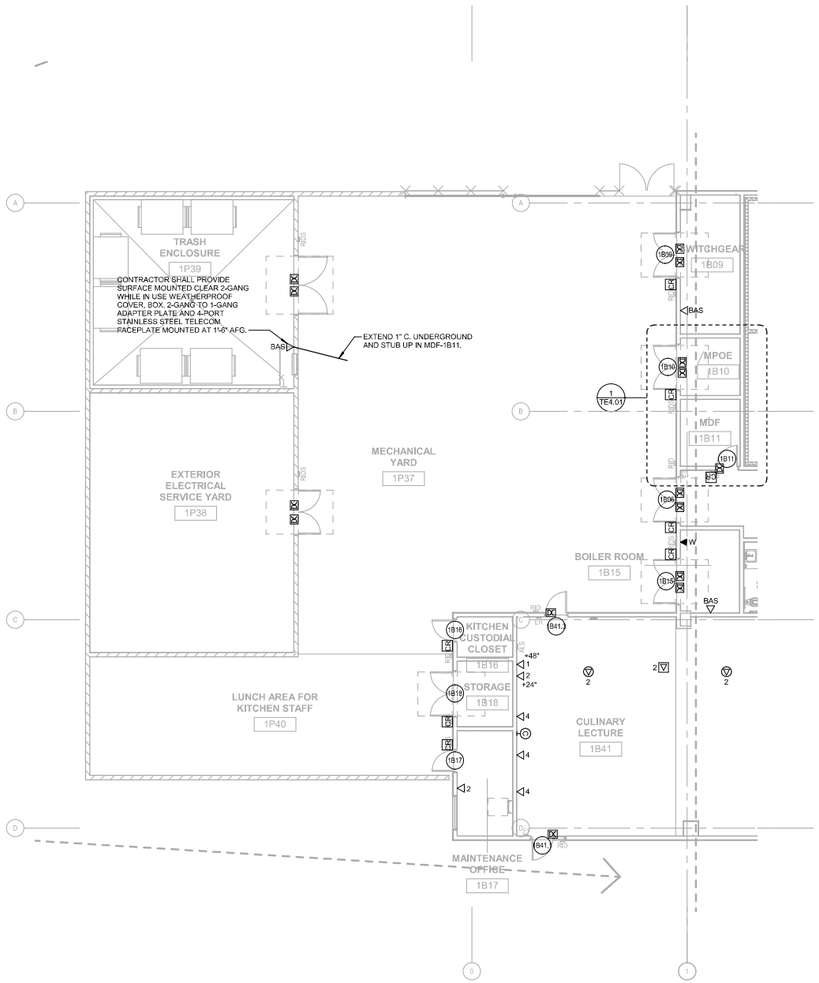
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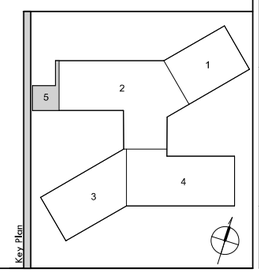
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1 Academic Bldg. Level 01 - SECTOR 5
1/8" = 1'-0"



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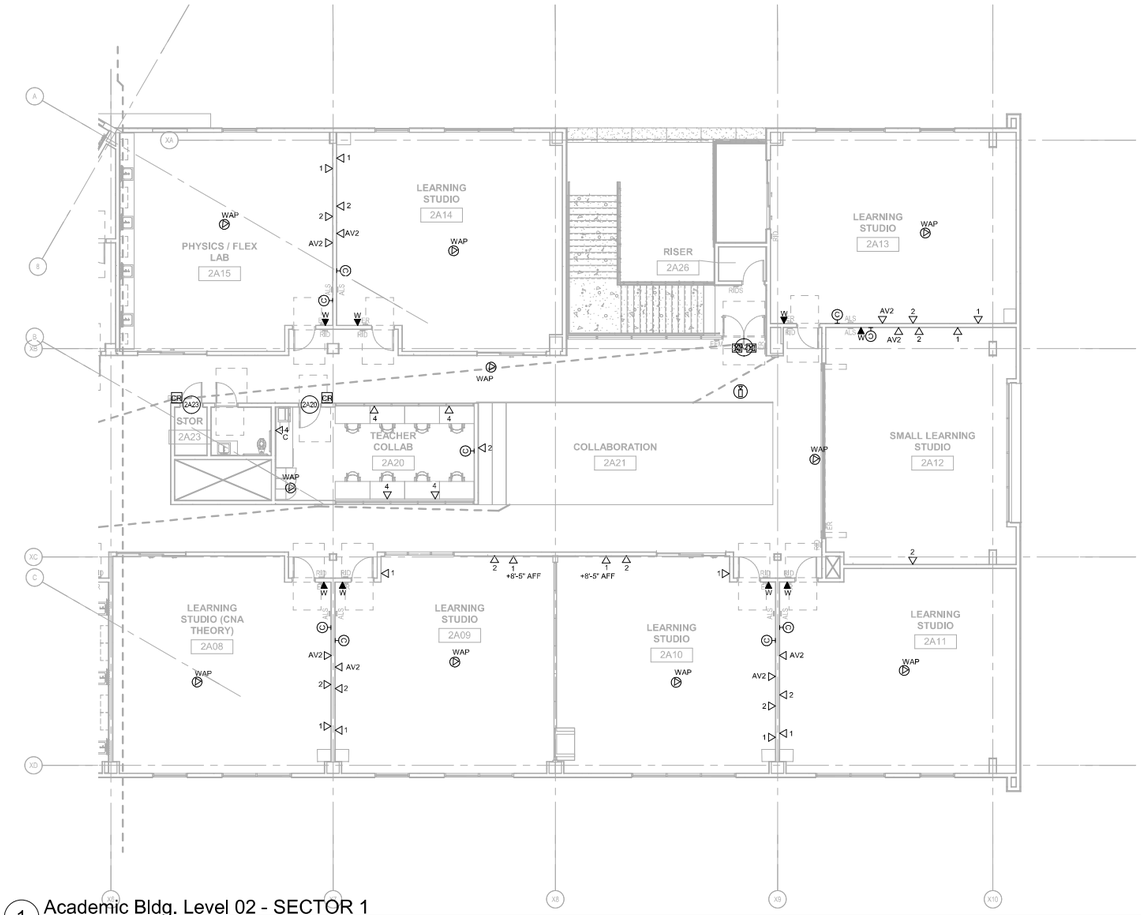
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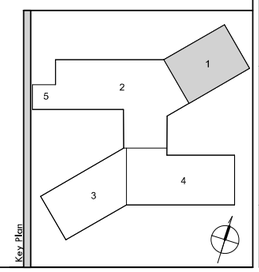
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TEA1.05



1 Academic Bldg. Level 02 - SECTOR 1
1/8" = 1'-0"



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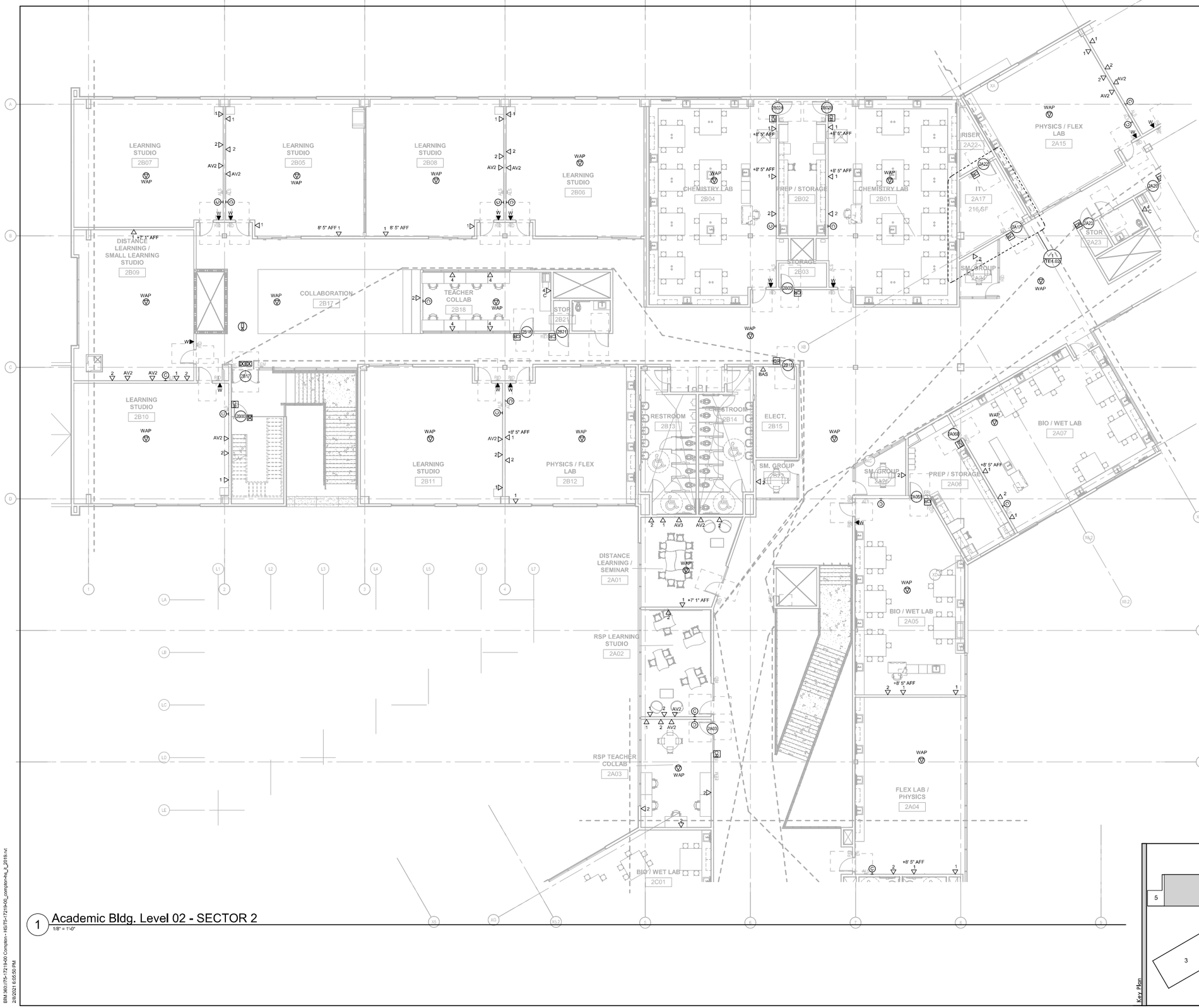
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ACA BLDG FLOOR PLAN - SECT. 1 - LVL 2

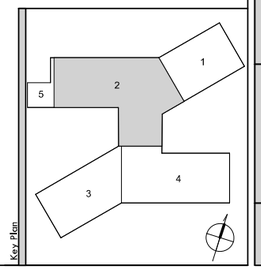
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1 Academic Bldg. Level 02 - SECTOR 2
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DLR Group

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700 S. FLOWER STREET
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Consultant

Project

601 S Arcacia Ave Compton, CA 90220

Compton High School

DSA SUBMITTA

Issue

REV.	DATE	DESCRIPTION

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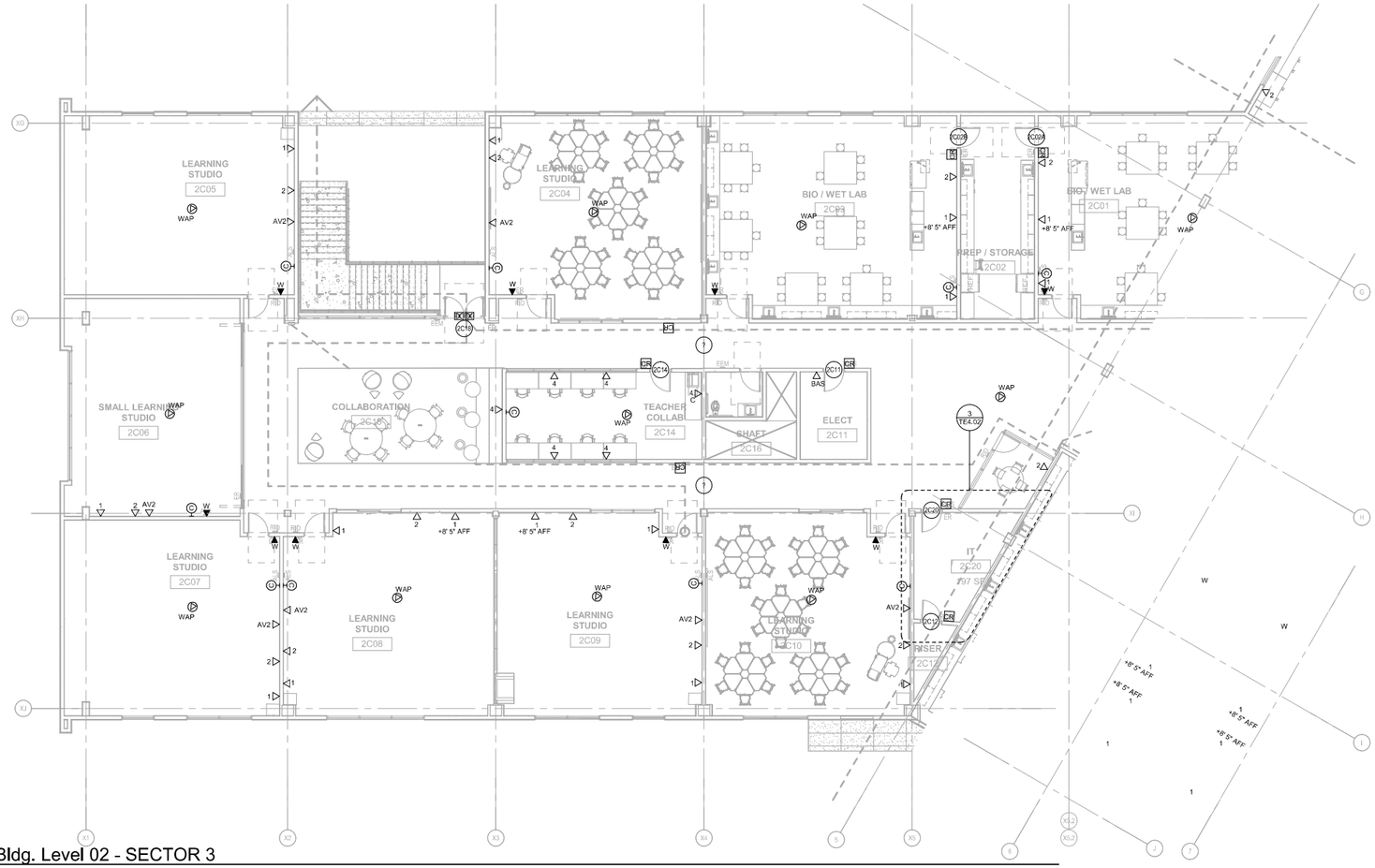
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DSA No.:	03-120849
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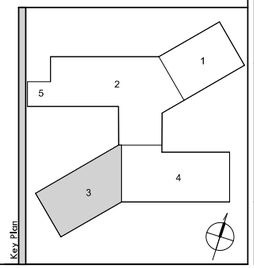
ACA BLDG FLOOR PLAN - SECT. 2 - LVL 2

Sheet No.

TEA1.07



1 Academic Bldg. Level 02 - SECTOR 3
1/8" = 1'-0"



Key Plan

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DIV. OF THE STATE ARCHITECT
APP: 03-120849 INC:
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DATE: 08/09/2021

Client

Compton Unified School District
501 S. Santa Fe Avenue
Compton, CA 90221

CUSD No.:	16/17-5044
PTN No.:	73437-0140
File No.:	19-H7

Stamps

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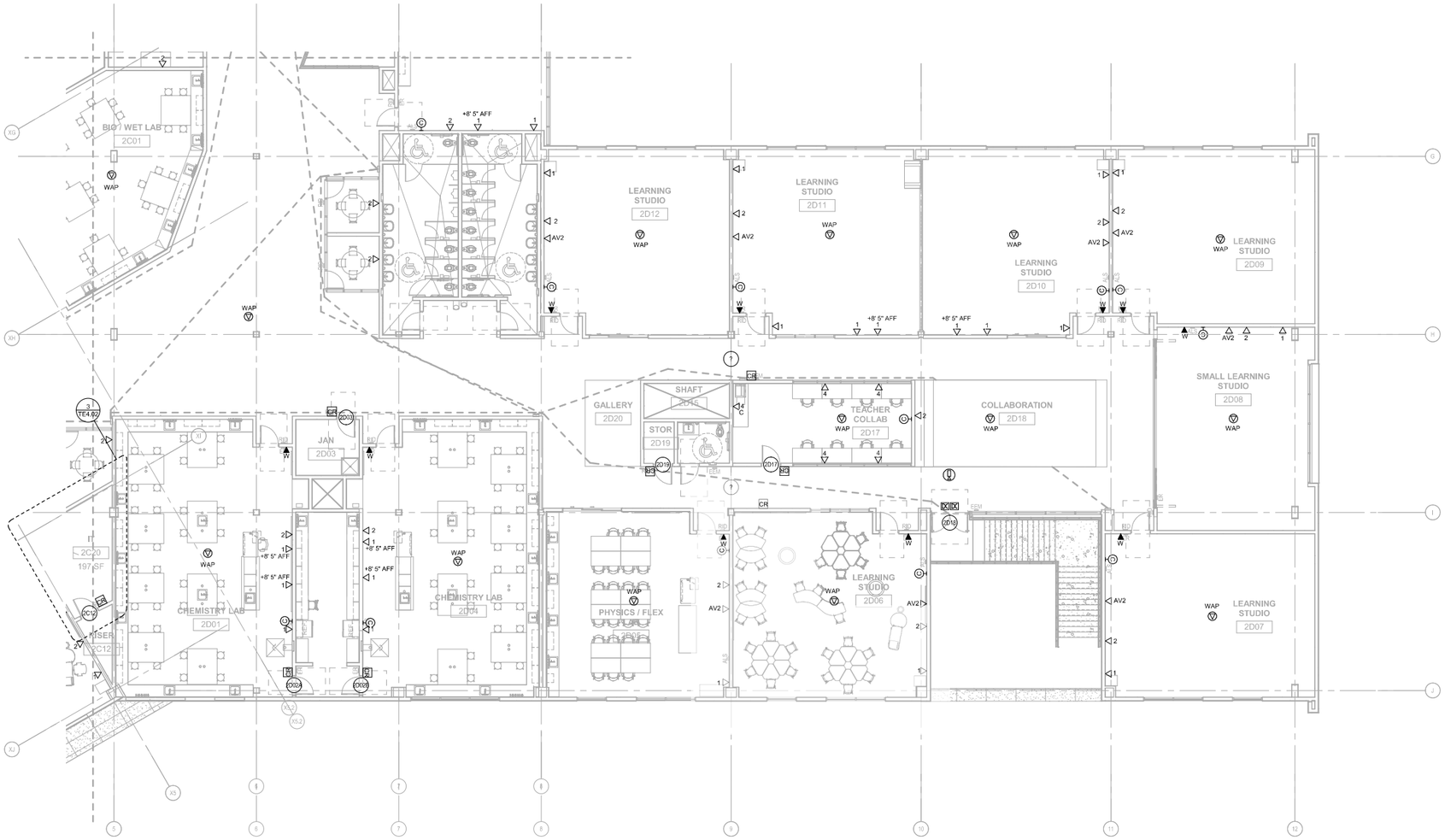
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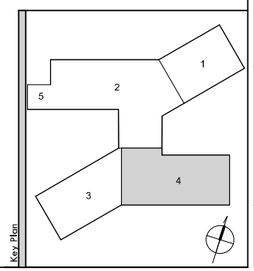
ACA BLDG FLOOR PLAN - SECT. 3 - LVL 2

Sheet No.

TEA1.08



1 Academic Bldg. Level 02 - SECTOR 4
1/8" = 1'-0"



Key Plan

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DENNIS DIMITRIS
NO. C-32032
EXPIRATION 31-2021
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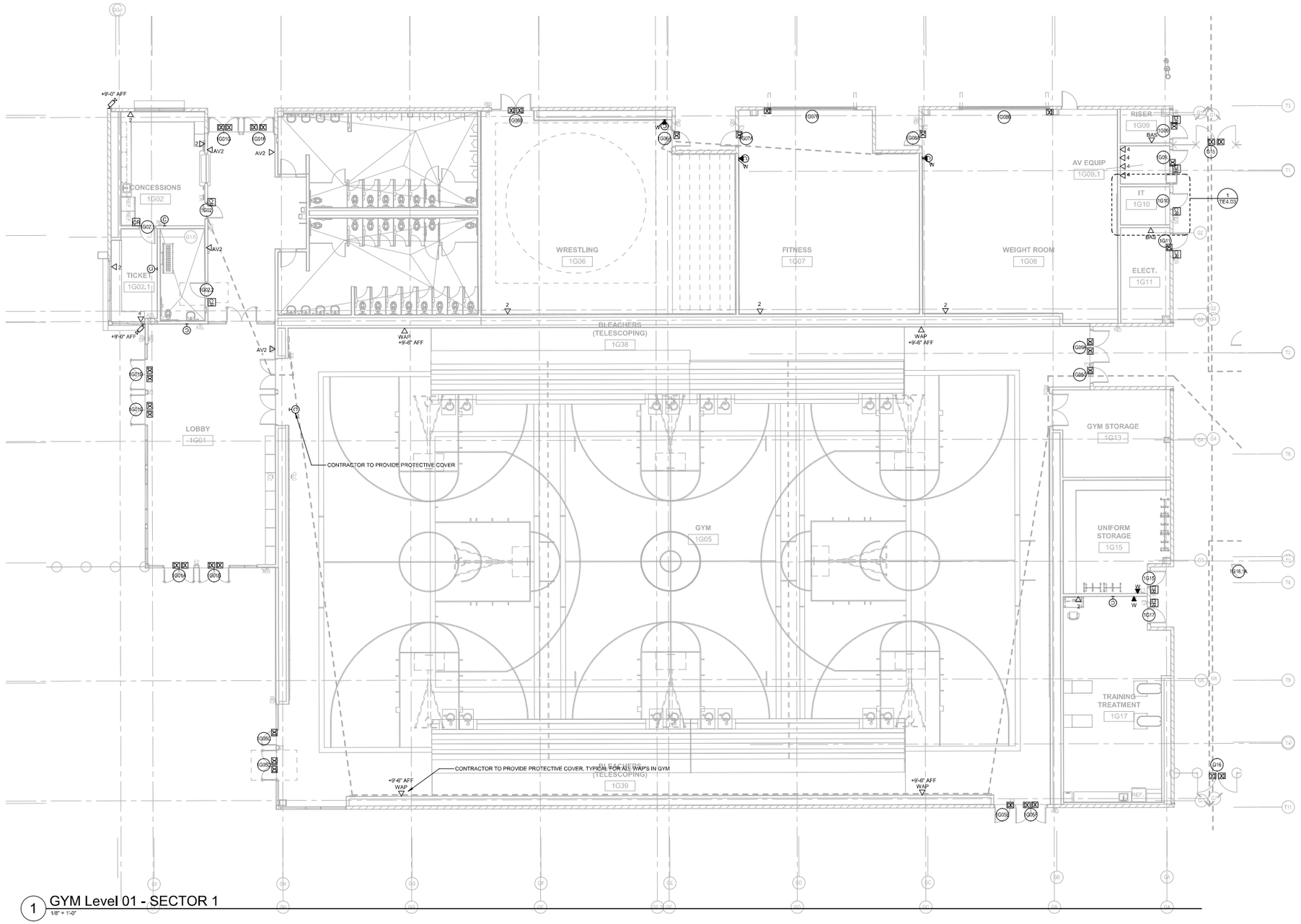
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ACA BLDG FLOOR PLAN - SECT. 4 - LVL 2

Sheet No.

TEA1.09



1 GYM Level 01 - SECTOR 1
1/8" = 1'-0"

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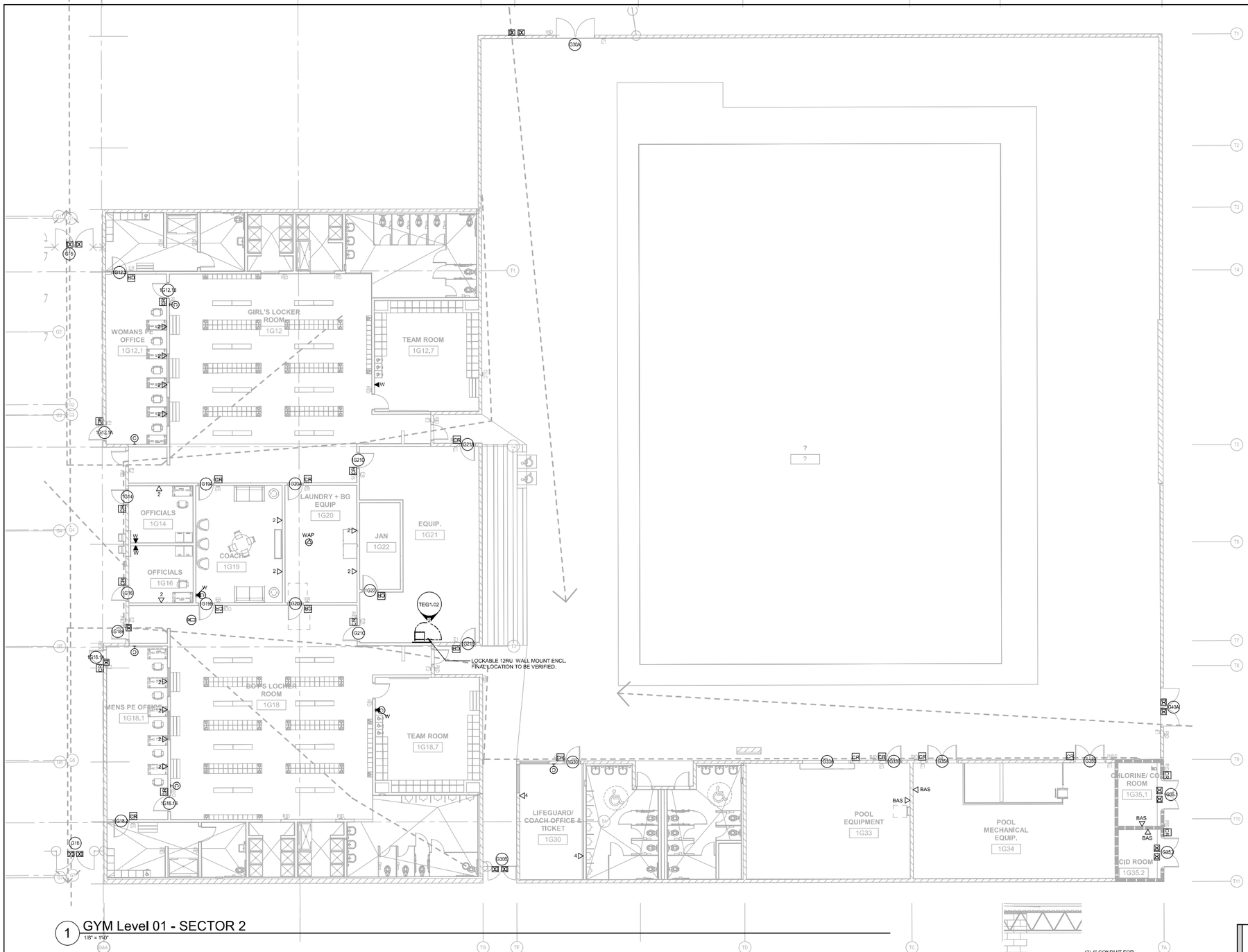
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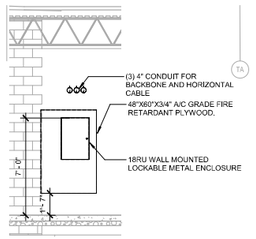
GYM BLDG FLOOR PLAN - SECT. 1 - LVL 1

Sheet No.

TEG1.01

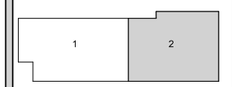


1 GYM Level 01 - SECTOR 2
1/8" = 1'-0"



2 Equip. 1G21 Wall Mounted Rack Elevation
1/4" = 1'-0"

Key Plan



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Sheet Title

GYM BLDG FLOOR PLAN - SECT. 2 - LVL 1

Sheet No.

TEG1.02

IT ROOM 1P10 IS SIZED FOR 24 SINGLE MODE AND 24 MULTI-MODE AND APPROXIMATELY 580 CATEGORY 6 PLENUM RATED HORIZONTAL CABLES.

TELECOM FACEPLATE SHALL BE PAINTED (Dunn Edwards DE6376 LOOKING GLASS) TO MATCH WALL. REFER TO FINISH SCHEDULE FT-7 FOR ADDITIONAL INFORMATION. TYPICAL OF 8 PLACES.

1 PAC - LEVEL 01 - SECTOR 1
1/8" = 1'-0"

Key Plan

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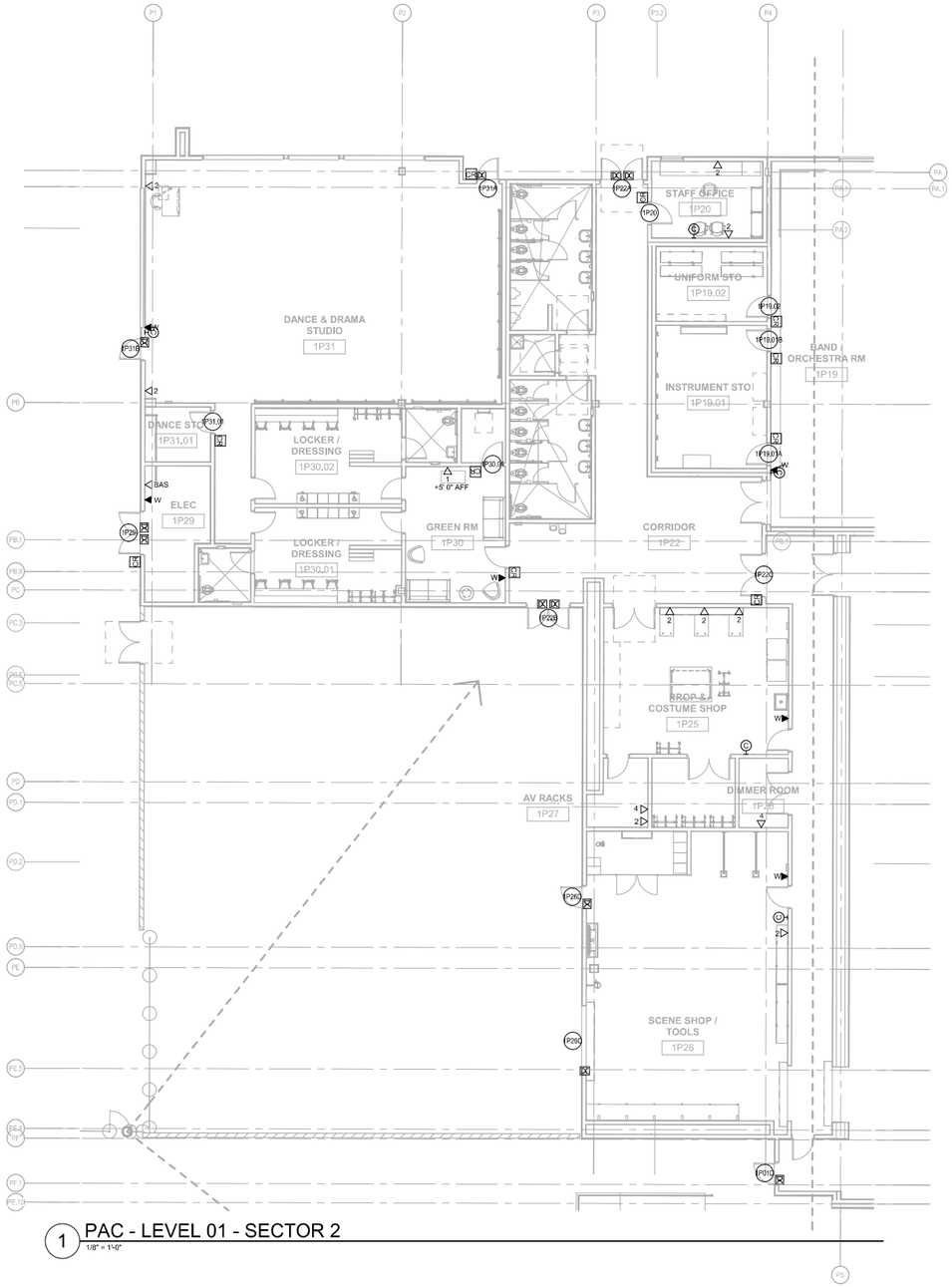
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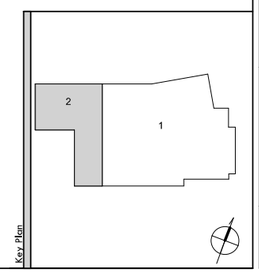
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1 PAC - LEVEL 01 - SECTOR 2
1/8" = 1'-0"



Key Plan

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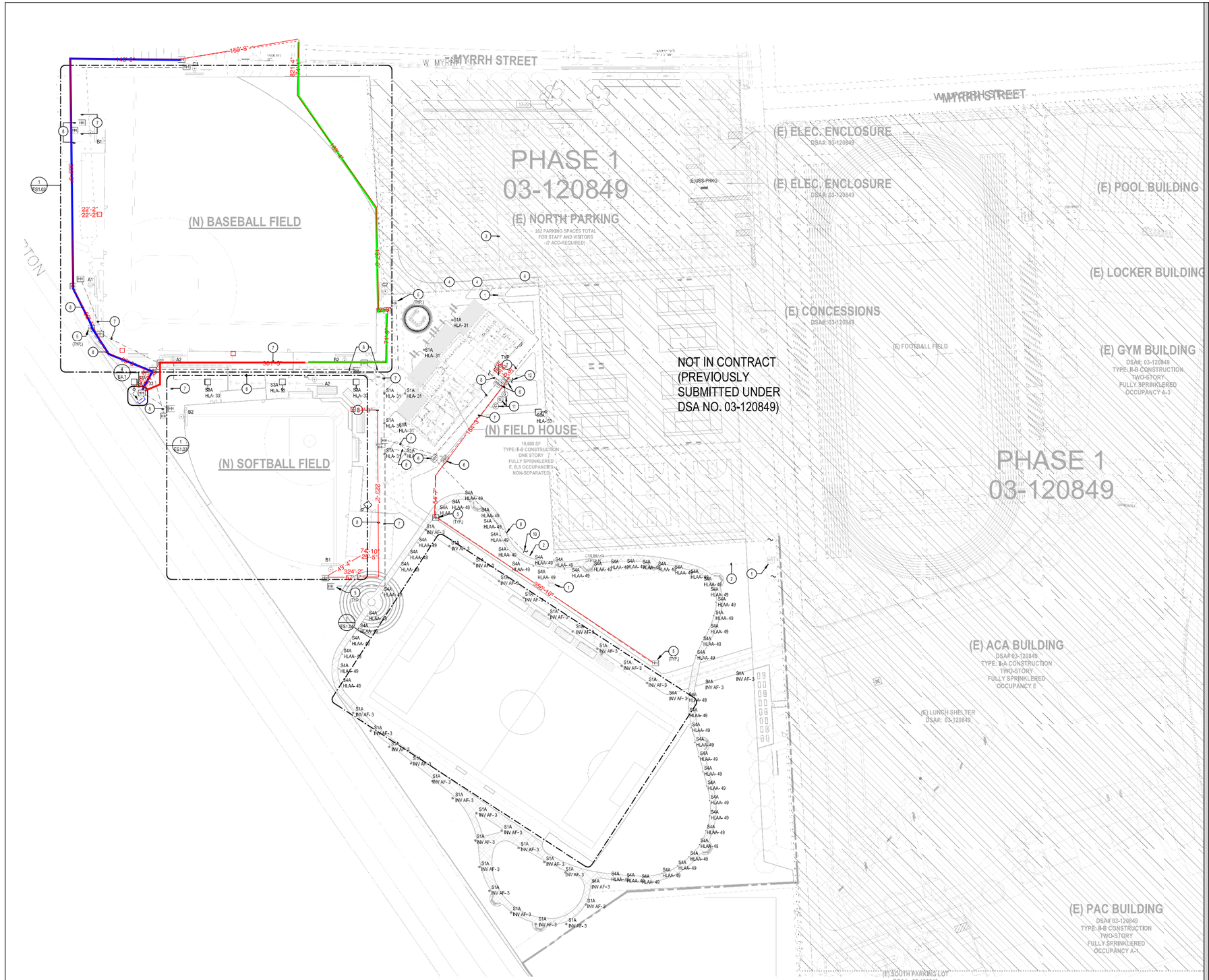
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PROJ MGR:	Author
DATE:	02/15/2021

Sheet Title

PAC BLDG FLOOR PLAN - SECT. 2 - LVL 1

Sheet No.

TEP1.02



OVERALL ELECTRICAL SITE PLAN
SCALE: 1" = 50'-0"

GENERAL POWER NOTES

(TYPICAL ALL POWER SHEETS)

1. EACH BIDDER SHALL VISIT THE SITE DURING THE BID PERIOD TO FAMILIARIZE HIM-HERSELF WITH EXISTING CONDITIONS RELATIVE TO THE SCOPE OF WORK AS INDICATED ON THE BID DOCUMENTS. THE BIDDER SHALL NOTIFY THE ARCHITECT FOR ANY VARIATION BETWEEN DESIGN INTENT AS SHOWN ON THE BID DOCUMENTS AND EXISTING CONDITIONS OBSERVED IN THE FIELD. OBSERVED DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND EXISTING FIELD CONDITIONS SHALL BE SUBMITTED IN WRITING BY THE DEADLINE FOR QUESTIONS, PRIOR TO ISSUANCE OF THE FINAL ADDENDUM TO ALL BIDDERS. FAILURE TO SUBMIT SHALL NOT RELIEVE THE CONTRACTOR OF ITS RESPONSIBILITY TO PROVIDE COMPLETE FUNCTIONAL SYSTEM AS INDICATED OR INFERRED BY THE CONTRACT DOCUMENTS. CONTRACTOR TO PROVIDE ALL REQUIRED LABOR, PARTS AND MATERIAL TO ATTAIN DESIGN INTENT.
2. SEE SHEET E5.1 FOR FEEDER SCHEDULE BASED ON PROTECTION / CIRCUIT BREAKER SIZE.
3. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL, MECHANICAL, PLUMBING, A/V, TELE COMMUNICATION DRAWINGS AND ELEVATIONS PRIOR TO ELECTRICAL ROUGH-INS. CONTRACTOR TO FIELD COORDINATE WITH EQUIPMENT VENDOR FOR ELECTRICAL CONNECTION TYPE. CONTRACTOR TO MAKE NECESSARY ADJUSTMENTS PER EQUIPMENT PRODUCT DATA SHEETS.
4. PROVIDE DEDICATED 120-VOLT CIRCUITS TO ALL HVAC BAS CONTROL DEVICES AND PANELS. COORDINATE QUANTITY WITH DIVISION 23. UTILIZE NEAREST SPARE 120-VOLT, 20/1 BREAKER. LABEL TYPED PANEL DIRECTORY ACCORDING TO LOAD BEING SERVED.
5. PROVIDE #10AWG CONDUCTORS FOR ALL WARM AIR DRYER CIRCUITS. PROVIDE LOCKOUT DEVICE AT ALL BREAKERS SERVING WARM AIR DRYERS.
6. ELECTRICAL PLAN ARE MADE TO PROVIDE DESIGN INTENT. CONTRACTOR TO FIELD COORDINATE CONDUIT ROUTING TO BEST SUITE THE PROJECT IN COORDINATION WITH OTHER TRADES. PROVIDE ADJUSTMENT AS REQUIRED TO MEET DESIGN INTENT.
7. ELECTRICAL WORK SHOWN ON THESE PLANS ARE NEW EXCEPT NOTED OTHERWISE.

ES1.00 SHEET NOTES

Keynote Number	Keynote Description
1	EXISTING ELECTRICAL PULL BOX PROVIDED UNDER EARLIER PHASE OF THE PROJECT. DSA #03-120849.
2	EXISTING ELECTRICAL EMPTY CONDUIT DUCT WITH (4)4" FOR TELECOM, (2)4" FOR FA & (2)4" FOR DAS PROVIDED UNDER EARLIER PHASE OF THE PROJECT. DSA #03-120849.
3	EXISTING ELECTRICAL EMPTY CONDUIT DUCT BANK WITH (2)4" FOR TELECOM, (2)3" PROVIDED UNDER EARLIER PHASE OF THE PROJECT. DSA #03-120849.
4	EXISTING SITE LIGHTING PROVIDED UNDER EARLIER PHASE OF THE PROJECT. DSA #03-120849.
5	ELECTRICAL PULL BOX MFG BY JENSEN MODEL 3048, 30"X48"X30", UNO
6	ELECTRICAL PULL BOX MFG BY JENSEN MODEL 504, 50"X48".
7	SEE SINGLE LINE AND OTHER ELECTRICAL PLAN FOR ALL ELECTRICAL CIRCUITS FOR THESE CONDUIT DUCT BANK.
8	(4) 4"C FOR TELECOM, (2) 4"C FOR FA & (2) 4"C FOR DAS. PROVIDE CABLING PER DESIGN INTENT. SEE RESPECTIVE DECIPLINE DRAWINGS.
10	CONTRACTOR TO FIELD VERIFY AND LOCATE EXISTING DUCT BANK PROVIDED UNDER PHASE 1 WORK, AND EXTEND EXISTING DUCT BANK AS SHOWN.
11	GROUND WELL WITH 10' X 1" D STEEL REINFORCED COPPER CLAD GROUND RODS. PLACE GROUND ELECTRODES MIN. 10' APART. PROVIDE GROUNDING ELECTRODE CONDUCTOR PER KEYNOTE NO. 10 ON SHEET E4.1. LOCATE GROUND WELLS AT PLANTER AREA.
12	PROVIDE GROUNDING ELECTRODE CONNECTION TO UNDERGROUND METAL WATER PER. SEE KEYNOTE NO. 10 ON SHEET E4.1

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501 S. Santa Fe Avenue
Compton, CA 90221

CUSD No.:	16/17-5044
PTN No.:	73437-0140
File No.:	19-H7

Stamps

REGISTERED PROFESSIONAL ENGINEER
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REG.#E15990
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ELECTRICAL
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COMPTON HIGH SCHOOL ATHLETIC FIELD

DSA APPROVED

Issue

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Sheet Info

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DSA No.:	03-122901
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DATE:	08/30/2023

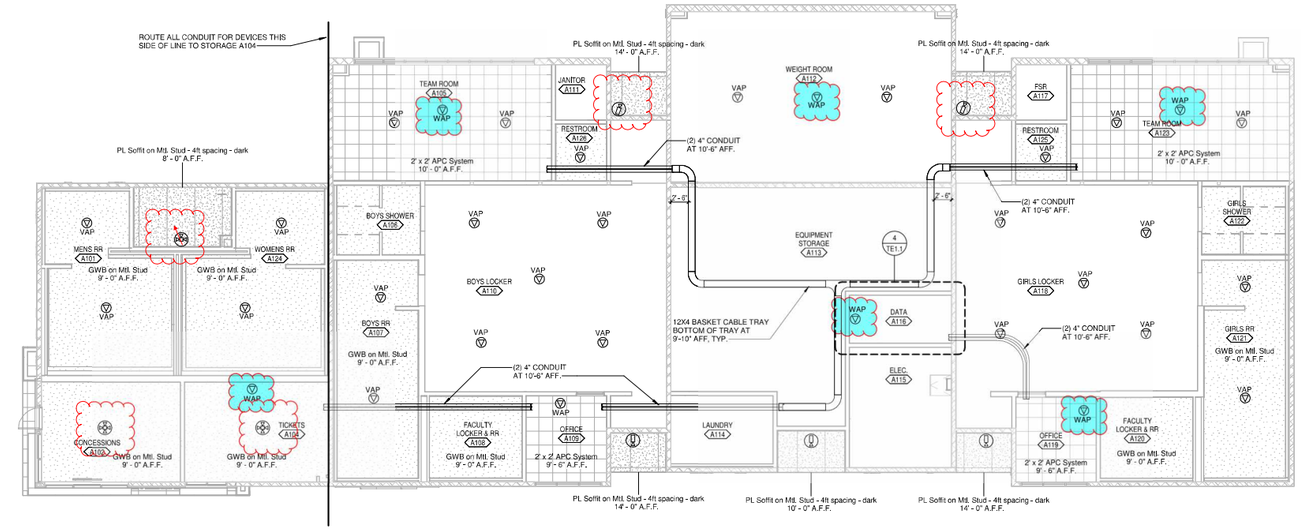
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ELECTRICAL SITE PLAN

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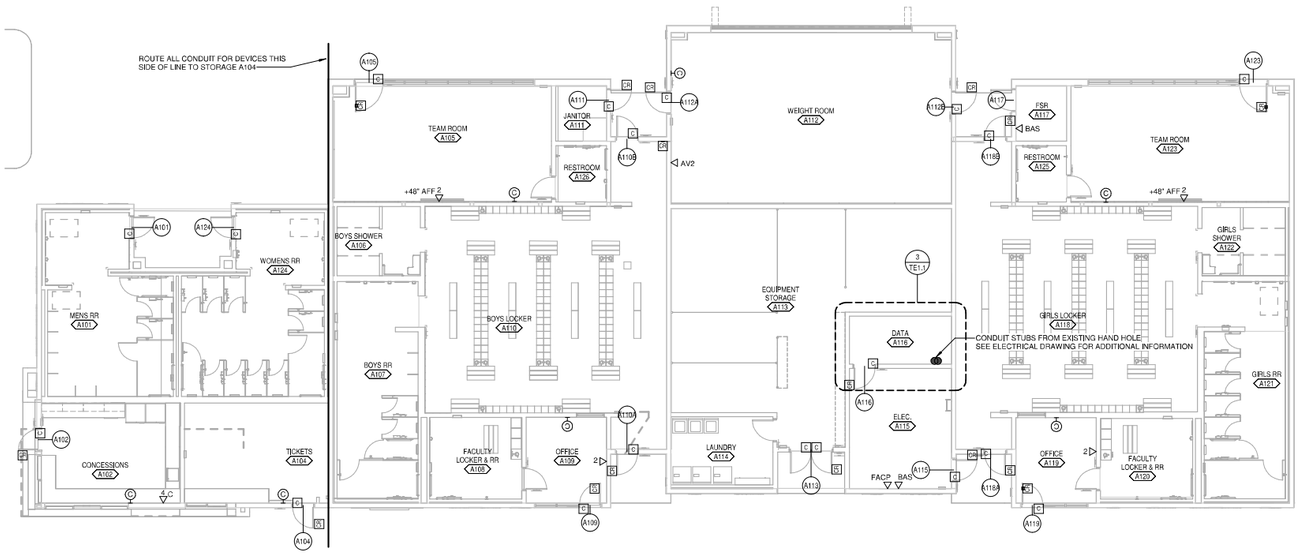
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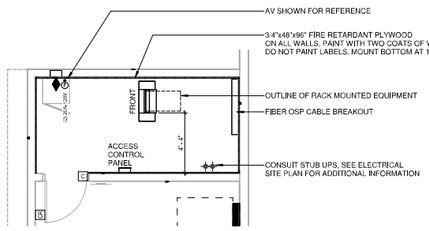
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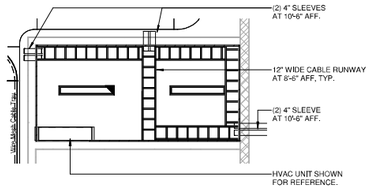
GROUND LEVEL

SCALE: 1/8" = 1'-0"



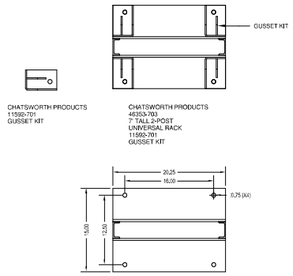
DATA A116 ENLARGED PLAN

SCALE: 1/4" = 1'-0"



DATA A116 ENLARGED RCP

SCALE: 1/4" = 1'-0"



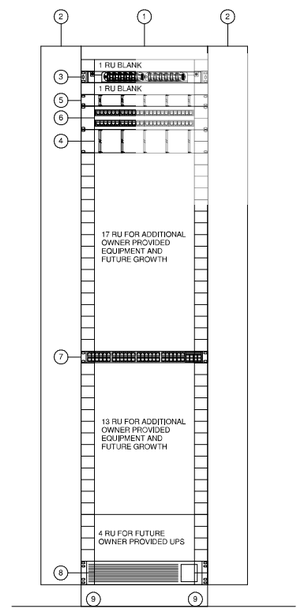
CHATSWORTH PRODUCTS
46353-703
7' TALL 2-POST
UNIVERSAL RACK FLOOR PLATE
DIMENSIONAL PLAN

General Notes:

1. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.

Key Notes:

1. PROVIDE 19" WIDE, 2-POST, 45 RU FLOOR MOUNTED RACK.
2. PROVIDE 6" WIDE DOUBLE SIDED VERTICAL WIRE MANAGER.
3. PROVIDE 1 RU CLOSET CONNECTOR HOUSING FOR TERMINATING SINGLE-MODE FIBER OPTIC CABLES. (BASIS OF DESIGN - CORNING CCH-01U).
4. PROVIDE 2 RU HORIZONTAL CABLE MANAGER WITH 5 SINGLE CABLE RETAINING RINGS.
5. PROVIDE 1 RU HORIZONTAL CABLE MANAGER WITH 5 SINGLE CABLE RETAINING RINGS.
6. PROVIDE 48-PORT RJ45 CAT 6 MODULAR PATCH PANEL.
7. 1 RU 48-PORT PoE SWITCH, BY OWNER. (BASIS OF DESIGN - CISCO CATALYST WS-C3850-48U). SHOWN FOR COORDINATION.
8. RACK MOUNTED UPS, BY OWNER. (BASIS OF DESIGN - APC SMART UPS 3000VA LCD RM 2U 120V). SHOWN FOR COORDINATION.
9. GUSSET KIT.



DATA A116 RACK ELEVATION

NOTE
1. EACH TELECOMMUNICATION RACK SHALL BE BOLTED PER THE FOLLOWING:
   1.1. GROUND FLOOR USE 5/8" DIA HILTI KB-TZ2 W/ 2 3/4" EMBED.
2. INFORMATION GIVEN IS FOR A BASIS OF DESIGN PURPOSES ONLY. CONTRACTOR SHALL PROVIDE PRODUCTS IN ACCORDANCE WITH SHOP DRAWINGS PRIOR TO RACK MOUNTING FLOOR PREPARATION.
3. 2-POST UNIVERSAL RACK MAXIMUM LOAD CAPACITY 1,500 LBS.

Autodesk Docs://75-22615-00 Compton USD - Athletic Fields/75-22615-00_Compton USD - Athletic Fields_TE0_2022.rvt
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501 S. Santa Fe Avenue
Compton, CA 90221

CUSD No.:	16/17-5044
PTN No.:	73437-0140
File No.:	19-H7

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ELECTRICAL
05/31/2023
Expiration 3/31/2024

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COMPTON HIGH SCHOOL ATHLETIC FIELDS

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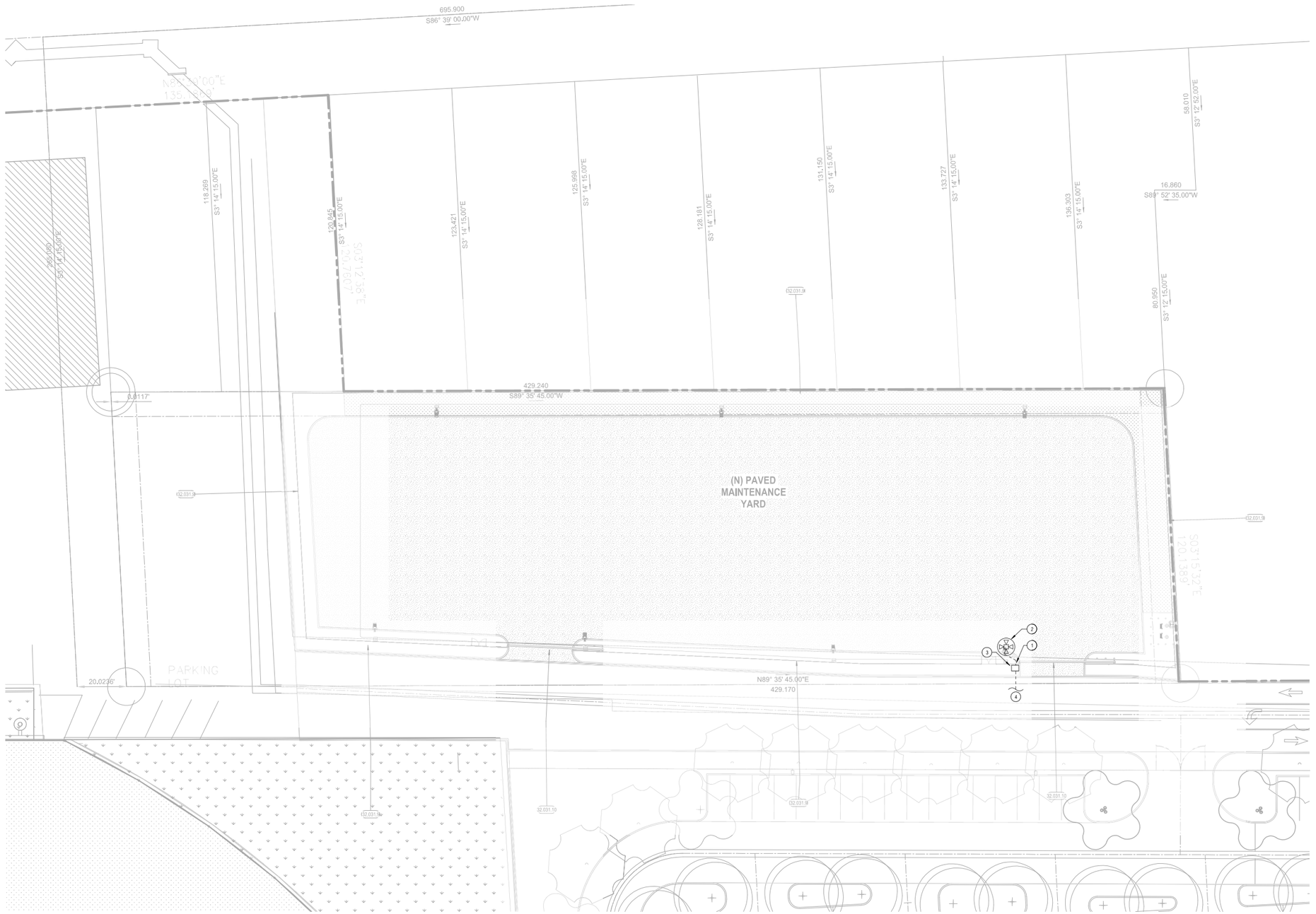
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PROJ MGR:	Author
DATE:	5/15/2023

Sheet Title

FIRST FLOOR - TELECOM/SECURITY PLANS

Sheet No.

TE1.1



LEVEL 01 - AREA A - TELECOM PLAN
SCALE: 1/16" = 1'-0"

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SHEET NOTES

1. (1) 1-1/4" CONDUIT TO LIGHTING POLE.
2. 360° MULTISENSOR CAMERA MOUNTED TO LIGHTING POLE. PROVIDE 2-STRAND OS2 SINGLEMODE INDOOR/OUTDOOR RATED FIBER TO FIBER-TO-COPPER MEDIA CONVERTER TO SERVE CAMERA. FIBER OPTIC CABLE TO TERMINATE IN BUILDING BDF. SEE SITE PLAN FOR MORE INFORMATION AND COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.
3. TELECOMMUNICATIONS PULL BOX. SEE SITE PLAN FOR MORE INFORMATION.
4. CONDUITS TO SITE. SEE SITE PLAN FOR MORE INFORMATION.

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ELECTRICAL
STATE OF CALIFORNIA
Expires 3/31/2026

COMPTON USD

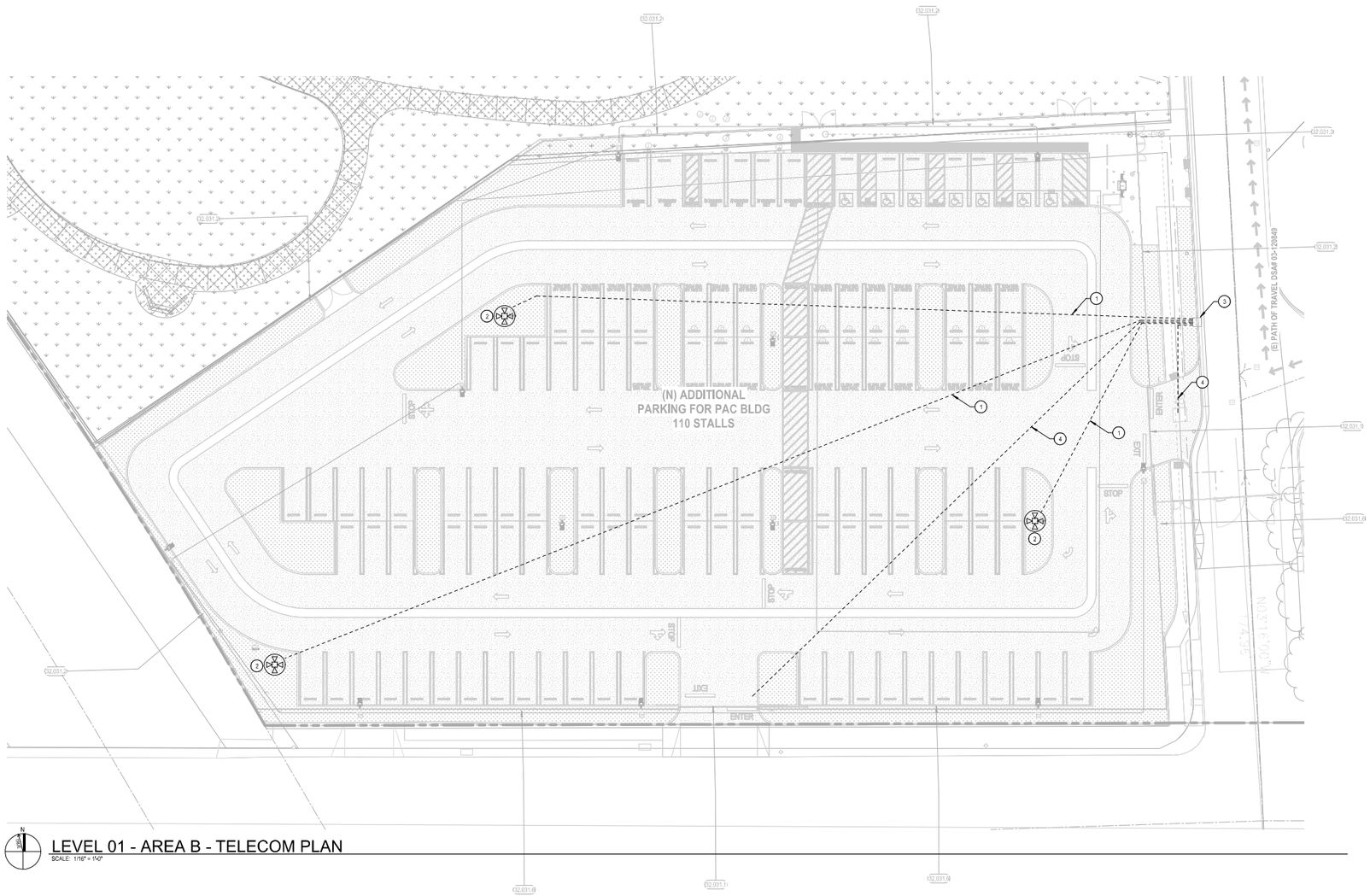
COMPTON HS PHASE 3
601 S Acacia Ave,
Compton, CA 90220.

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02/06/2025
REVISIONS

75-24326-00
DSA Ap# 03-124615
DSA File # 19-H7

LEVEL 01 - AREA A - TELECOM & SECURITY PLAN

TE1.1A



LEVEL 01 - AREA B - TELECOM PLAN
SCALE: 1/16" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-124615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 02/25/2025

SHEET NOTES

1. (1) 1-1/4" CONDUIT TO LIGHTING POLE.
2. 360° MULTISENSOR CAMERA MOUNTED TO LIGHTING POLE. PROVIDE 2-STRAND OS2 SINGLEMODE INDOOR/OUTDOOR RATED FIBER TO FIBER-TO-COPPER MEDIA CONVERTER TO SERVE CAMERA. FIBER OPTIC CABLE TO TERMINATE IN BUILDING BDF. SEE SITE PLAN FOR MORE INFORMATION AND COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.
3. TELECOMMUNICATIONS PULL BOX, SEE SITE PLAN FOR MORE INFORMATION.
4. (1) 1-1/2" CONDUIT TO CARD READER LOCATION. COORDINATE WITH ARCHITECT FOR EXACT LOCATION.

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COMPTON UNIFIED SCHOOL DISTRICT

COMPTON HS PHASE 3
601 S Acacia Ave,
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REVISIONS

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DSA Ap 03-124615
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LEVEL 01 - AREA B - TELECOM & SECURITY PLAN

TE1.1B