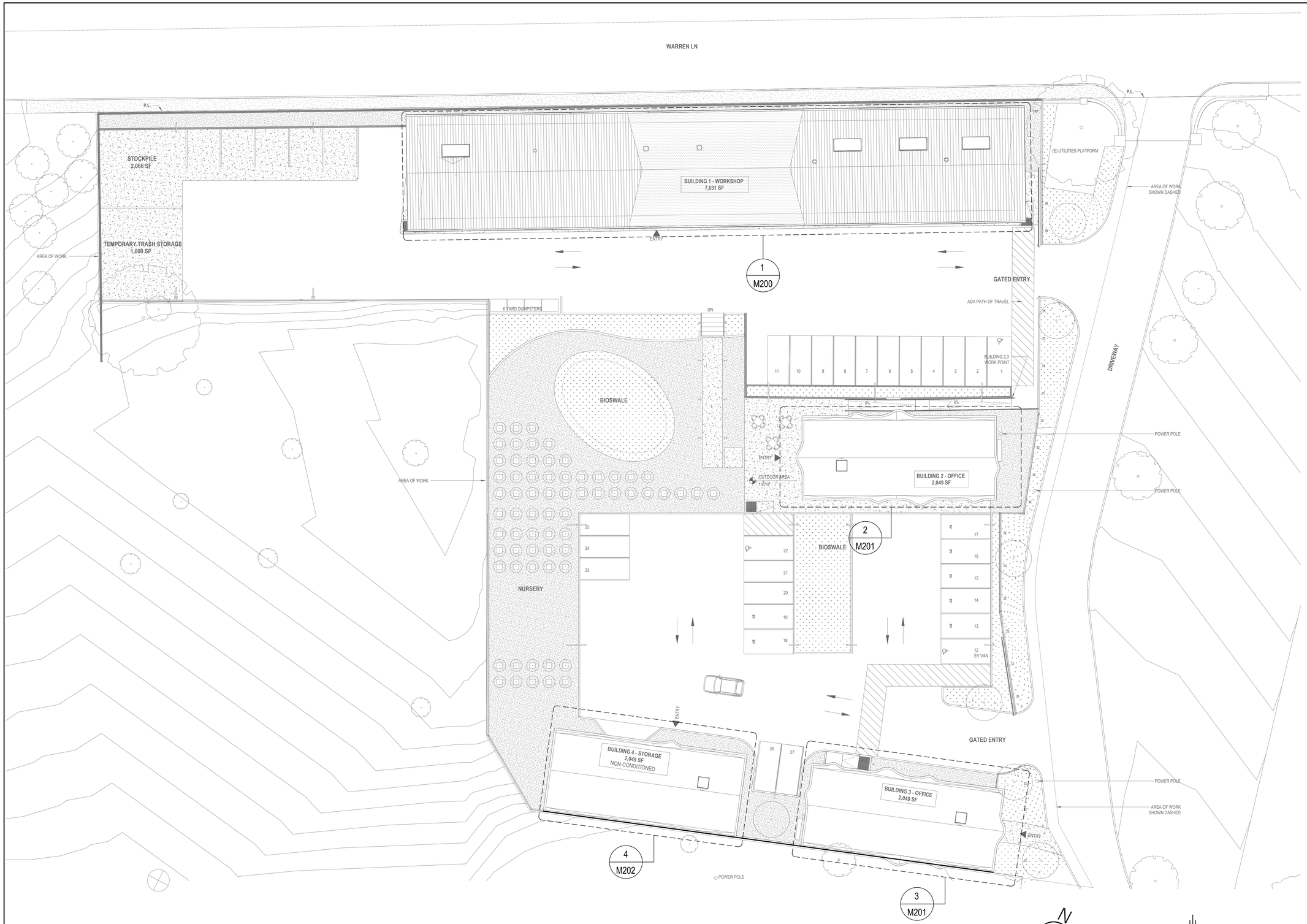

VINCENT PARK MAINTENANCE FACILITY

VPF 230309

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STATE OF CALIFORNIA

EXP:6/30/27

BAR SCALE

MECHANCIAL REVISION 1	12.11.2025

SHEET REVISION	DATE

ISSUE	DATE
BID SET	02.12.2026
90% PROGRESS DESIGN	11.21.2025
75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

SITE PLAN

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

M100

DATE
2.18.2026

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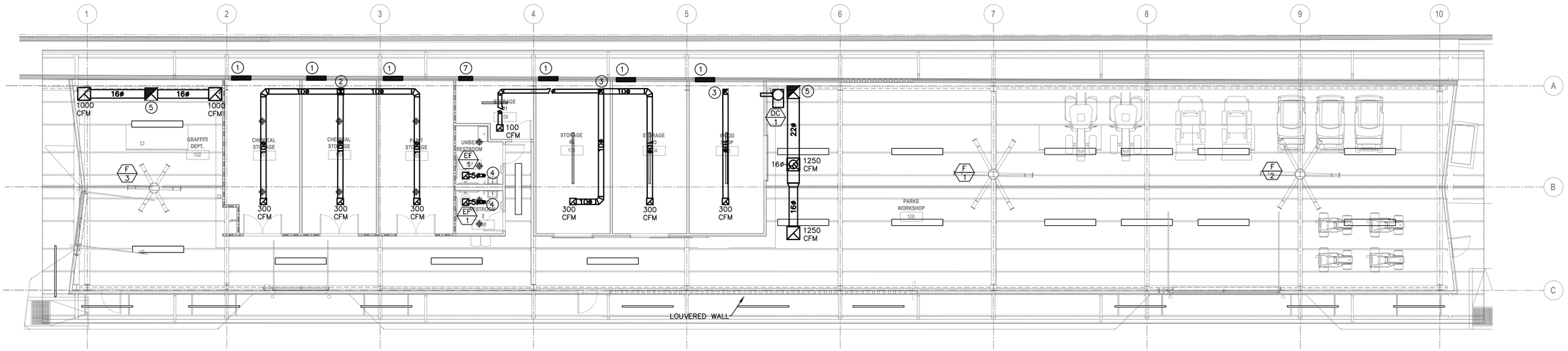
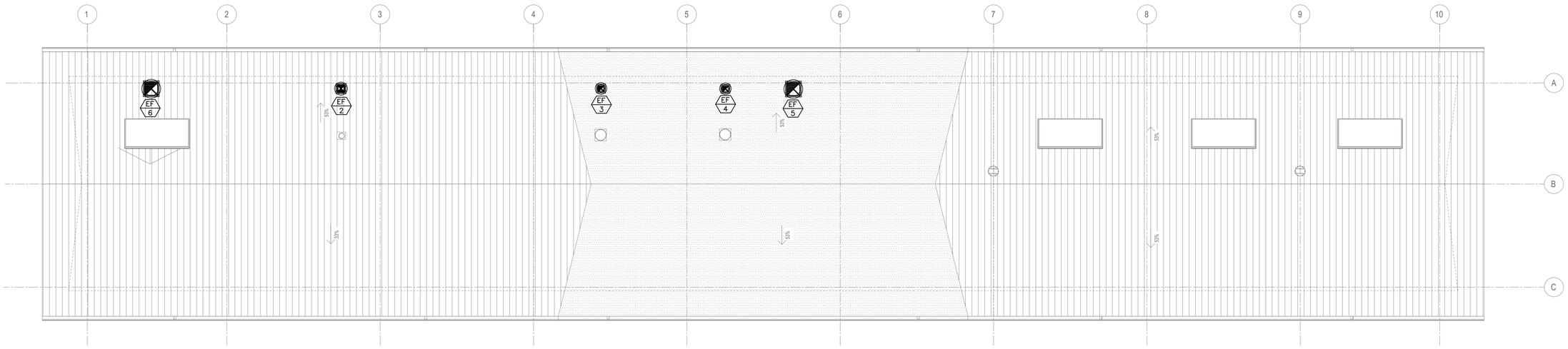


1 BUILDING 1- WORKSHOP FLOOR PLAN

1/8" = 1' 0"



2 BUILDING 1- WORKSHOP ROOF PLAN

1/8" = 1' 0"

GENERAL NOTES:

1) AIR INLETS THAT ARE PART OF THE VENTILATION DESIGN SHALL BE LOCATED A MINIMUM OF 10 FEET FROM KNOWN SOURCES OF CONTAMINATION SUCH AS A STACK VENT AND EXHAUST TERMINATION. THE INTAKE SHALL BE PLACED SO THAT ENTERING AIR IS NOT OBSTRUCTED. FORCED AIR INLETS SHALL BE PROVIDED WITH RODENT/INSECT SCREENS (MESH NOT LARGER THAN ½ INCH).

NUMBERED NOTES:

1. 24X12 LOUVER. ESD-435 BY GREENHECK.
2. 12X12 EXHAUST DUCT UP TO ROOFTOP MUSHROOM EXHAUST FAN.
3. 10X10 EXHAUST DUCT UP TO ROOFTOP MUSHROOM EXHAUST FAN.
4. 5"ø EXHAUST DUCT UP TO ROOF W/ GOOSENECK.
5. 24X24 EXHAUST DUCT UP TO ROOFTOP MUSHROOM EXHAUST FAN.
6. 24X24 EXHAUST DUCT UP TO ROOFTOP MUSHROOM EXHAUST FAN.
7. 12X12 LOUVER. ESD-435 BY GREENHECK.

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BAR SCALE

MECHANICAL REVISION 1	12.11.2025

SHEET REVISION	DATE

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60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025
ISSUE	**DATE**

FLOOR PLAN & ROOF PLAN (BUILDING 1- WORKSHOP)

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

M200

DATE
2.18.2026

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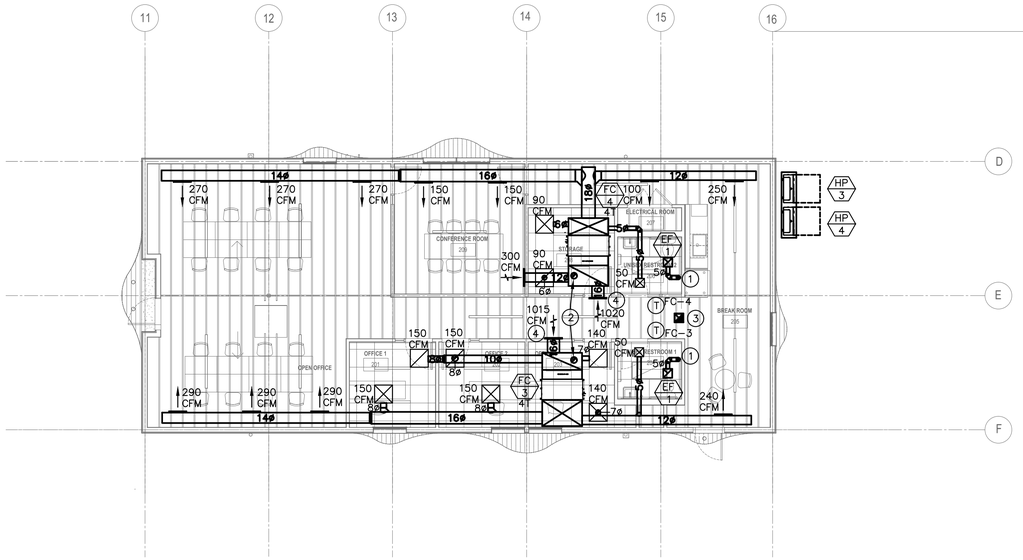
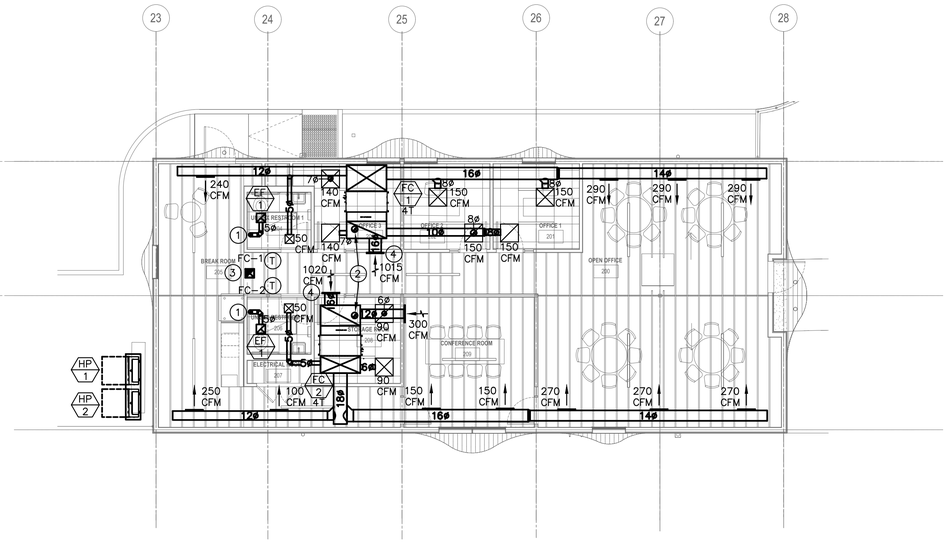
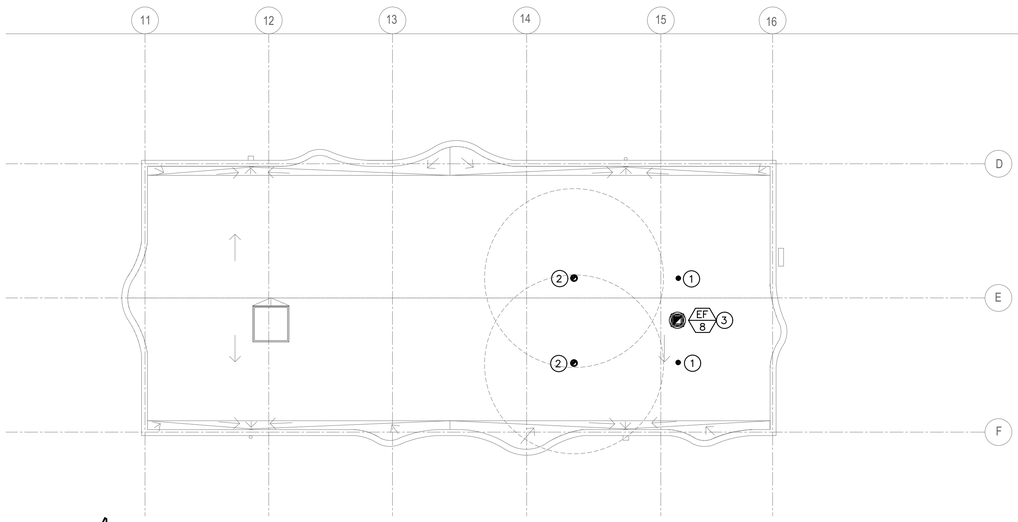


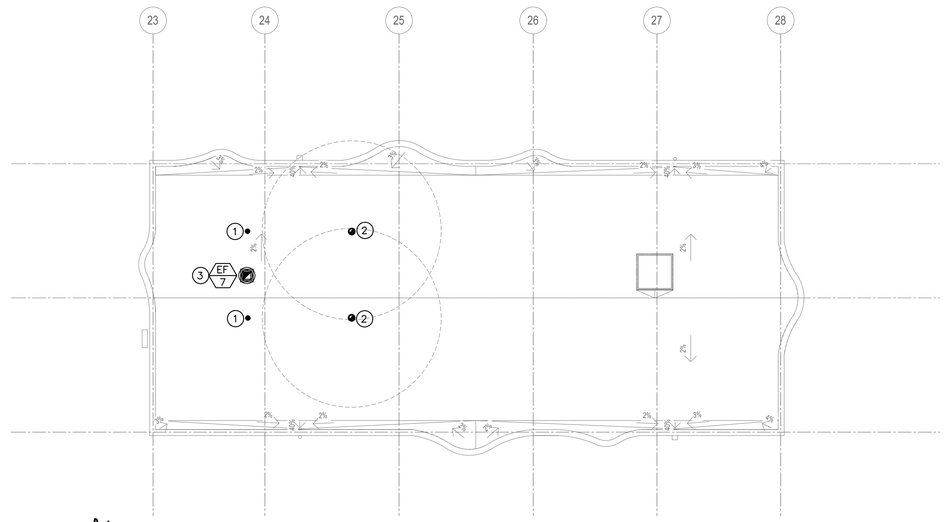
1 BUILDING 2- OFFICE FLOOR PLAN
1/8" = 1' 0"



3 BUILDING 3- OFFICE FLOOR PLAN
1/8" = 1' 0"



2 BUILDING 2- OFFICE ROOF PLAN
1/8" = 1' 0"



4 BUILDING 3- OFFICE ROOF PLAN
1/8" = 1' 0"

GENERAL NOTES:

AIR INLETS THAT ARE PART OF THE VENTILATION DESIGN SHALL BE LOCATED A MINIMUM OF 10 FEET FROM KNOWN SOURCES OF CONTAMINATION SUCH AS A STACK VENT AND EXHAUST TERMINATION. THE INTAKE SHALL BE PLACED SO THAT ENTERING AIR IS NOT OBSTRUCTED. FORCED AIR INLETS SHALL BE PROVIDED WITH RODENT/INSECT SCREENS (MESH NOT LARGER THAN ½ INCH).

2) PROVIDE LINED SUPPLY AIR AND RETURN AIR PLENUM.

NUMBERED NOTES:

1. 5"ø EXHAUST DUCT UP TO ROOF WITH GOOSENECK.
2. 8"ø OSA DUCT W/ MVD FROM FAN COIL UNIT UP TO ROOF WITH GOOSENECK.
3. 10X10 RELIEF EXHAUST DUCT DOWN FROM ROOFTOP MUSHROOM TYPE FAN TO 12X12 GRILLE.
4. 24X14 RETURN AIR GRILLE.

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VINCENT PARK MAINTENANCE FACILITY

VPF 230309

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STATE OF CALIFORNIA

EXP:6/30/27

BAR SCALE

MECHANICAL REVISION 1	12.11.2025

SHEET REVISION	DATE

ISSUE	DATE
BID SET	02.12.2026
90% PROGRESS DESIGN	11.21.2025
75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

FLOOR PLAN & ROOF PLAN (BUILDING 2&3- OFFICE)

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

M201

DATE
2.18.2026

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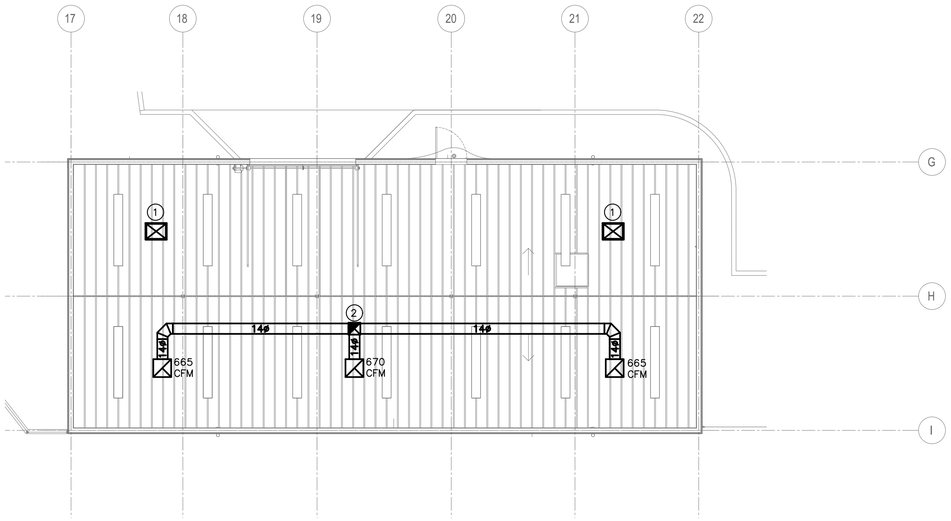
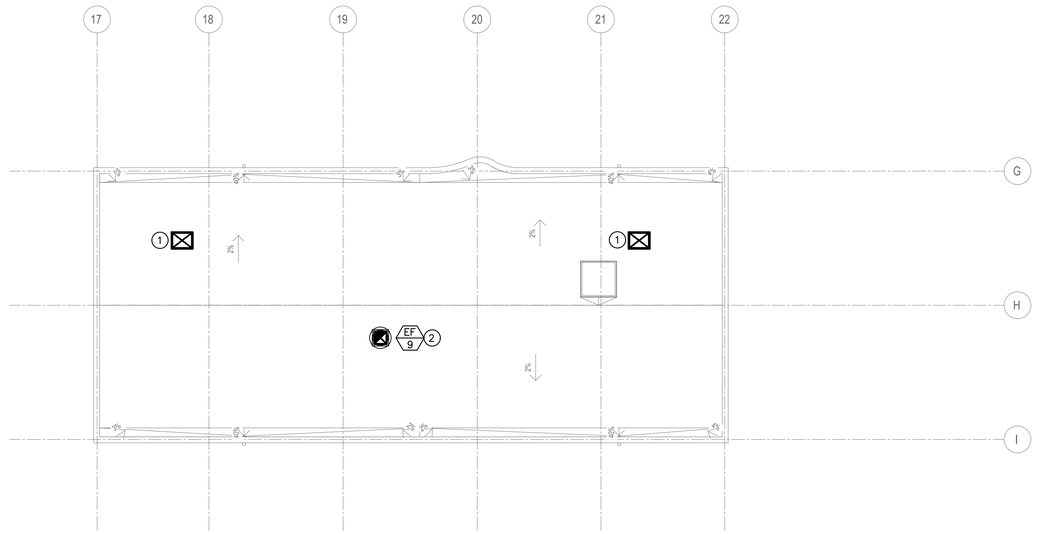


1 **BUILDING 4- STORAGE FLOOR PLAN**
1/8" = 1' 0"



N

2 **BUILDING 4- STORAGE ROOF PLAN**
1/8" = 1' 0"

GENERAL NOTES:

AIR INLETS THAT ARE PART OF THE VENTILATION DESIGN SHALL BE LOCATED A MINIMUM OF 10 FEET FROM KNOWN SOURCES OF CONTAMINATION SUCH AS A STACK VENT AND EXHAUST TERMINATION. THE INTAKE SHALL BE PLACED SO THAT ENTERING AIR IS NOT OBSTRUCTED. FORCED AIR INLETS SHALL BE PROVIDED WITH RODENT/INSECT SCREENS (MESH NOT LARGER THAN ½ INCH).

2) PROVIDE LINED SUPPLY AIR AND RETURN AIR PLENUM.

NUMBERED NOTES:

1. ROOFTOP GRAVITY INTAKE LOUVER (WIH–12X18) W/ ALUMINUM PERMANENT FILTER BY GREENHECK.
2. 16X16 DOWN FROM ROOFTOP MUSHROOM EXHAUST FAN.

N

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BAR SCALE

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SHEET REVISION	DATE

ISSUE	DATE
BID SET	02.12.2026
90% PROGRESS DESIGN	11.21.2025
75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

FLOOR PLAN & ROOF PLAN (BUILDING 4- STORAGE)

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

M202

DATE
2.18.2026

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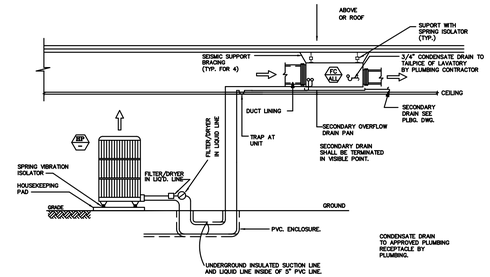
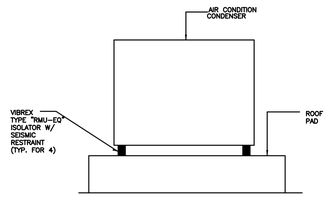


SPLIT A/C SYSTEM CONTROL | SCALE NONE | A

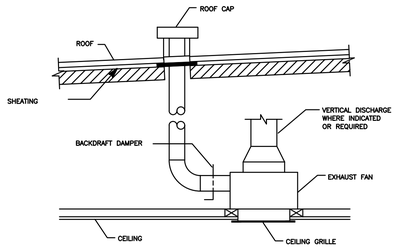


CONDENSER PAD DETAIL | SCALE NONE | B

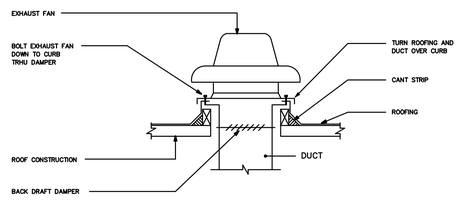
DIAGRAM SHOWN IS SCHEMATIC AND INTENDED TO SHOW SEQUENCE OF OPERATION ONLY. CONTRACTOR TO PROVIDE ALL ITEMS AND WIRING REQUIRED FOR PROPER OPERATION AND COMPLIANCE WITH CODE. VERIFY EXACT REQUIREMENTS WITH EQUIPMENT MANUFACTURER.

CONTROL LEGEND	
SYMBOL	DESCRIPTION
———	LINE VOLTAGE WIRING UNDER ELECTRICAL SECTION
———	LOW VOLTAGE WIRING BY MECHANICAL SECTION, CONDUIT BY ELECTRICAL SECTION
(E)	ITEMS FURNISHED & INSTALLED UNDER ELECTRICAL SECTION
NOTE: ALL CONDUIT UNDER ELECTRICAL SECTION	

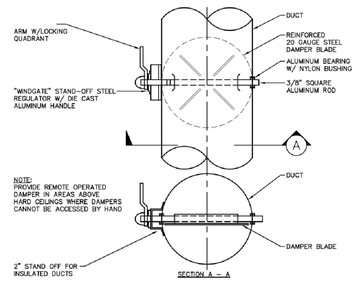
CONTROL LEGEND | SCALE NONE | C



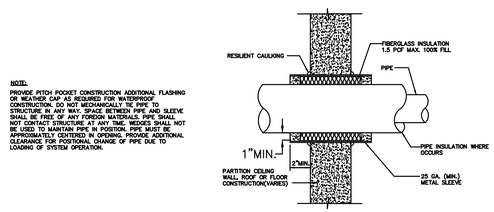
CEILING MTD. EXHAUST FAN DETAIL | SCALE NONE | D



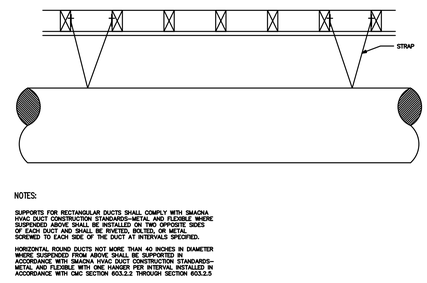
ROOF TOP EXHAUST FAN | SCALE NONE | E



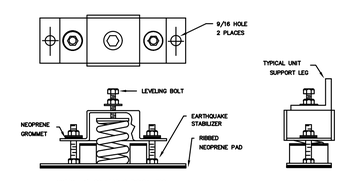
MANUAL VOLUME DAMPER DETAIL | SCALE NONE | F



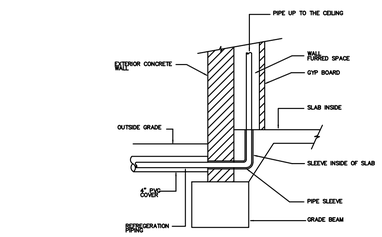
PIPE PENETRATION DETAIL | SCALE NONE | G



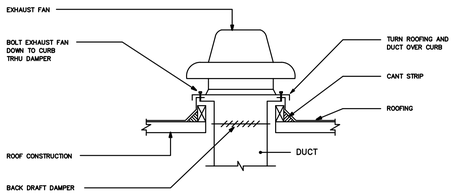
DUCT SUPPORT DETAIL | SCALE NONE | H



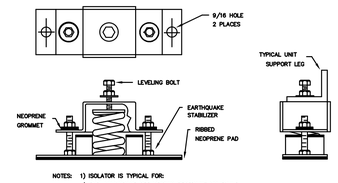
VIBREX TYPE RMU–EQ | SCALE NONE | I



REFRIGERATION PIPE RUN THROUGH EXTERIOR WALL | SCALE NONE | J



ROOF TOP EXHAUST FAN | SCALE NONE | K



VIBREX TYPE RMU–EQ | SCALE NONE | L

VINCENT PARK MAINTENANCE FACILITY

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MECHANICAL
STATE OF CALIFORNIA

EXP:6/30/27

BAR SCALE

MECHANCIAL REVISION 1	12.11.2025

SHEET REVISION	DATE

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60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025
ISSUE	**DATE**

DETAILS

SCALE: AS SHOWN

M300

DATE
2.18.2026

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GREENHECK
Building Value in Air.

Job Name: ESD-435-24x12 Cut Sheet
Tag: MK-1
Quantity: 1
Printed Date: November 19, 2025

Model: ESD-435-24x12

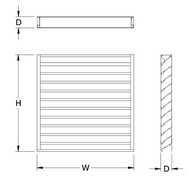
4 in. Drainable Blade Louver

Certifications/special requirements: AMCA-500-L (Air), AMCA-500-L (Water)

Construction	
Material	Aluminum
Blade Type	All
Blade Orientation	Horizontal
Weight (lbs)	7

Dimensional	
Nominal Width (in)	24
Nominal Height (in)	12
Actual Width (in)	23.75
Actual Height (in)	11.75
Blade Depth (in)	4
Sections Wide	1
Sections High	1

Performance	
Application	Intake
Volume (CFM)	300
Pressure Drop (in. wg)	0.03
Free Area Velocity (ft/min)	444
Free Area (ft^2)	0.7
Air Density (lbs/ft^3)	0.075



*Louvers are tested to figure 5.5-6.5
*Sections wide x high are as configured with a base mill finish channel frame product and may vary depending on options selected.

Greenheck Fan Corporation certifies that the louver shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance and water penetration ratings.

GREENHECK
Building Value in Air.

Job Name: ESD-435-12x12 Cut Sheet
Tag: MK-1
Quantity: 1
Printed Date: November 19, 2025

Model: ESD-435-12x12

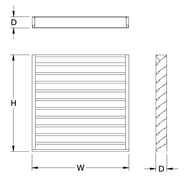
4 in. Drainable Blade Louver

Certifications/special requirements: AMCA-500-L (Air), AMCA-500-L (Water)

Construction	
Material	Aluminum
Blade Type	Drainable
Blade Orientation	Horizontal
Weight (lbs)	3

Dimensional	
Nominal Width (in)	12
Nominal Height (in)	12
Actual Width (in)	11.75
Actual Height (in)	11.75
Blade Depth (in)	4
Sections Wide	1
Sections High	1

Performance	
Application	Intake
Volume (CFM)	100
Pressure Drop (in. wg)	0.02
Free Area Velocity (ft/min)	340
Free Area (ft^2)	0.3
Air Density (lbs/ft^3)	0.075



*Louvers are tested to figure 5.5-6.5
*Sections wide x high are as configured with a base mill finish channel frame product and may vary depending on options selected.

Greenheck Fan Corporation certifies that the louver shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance and water penetration ratings.

VINCENT PARK MAINTENANCE FACILITY

VPF 230309

700 Warren Lane
Inglewood, CA, 90302

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EXP:6/30/27

BAR SCALE

MECHANICAL REVISION 1	12.11.2025

SHEET REVISION	DATE

ISSUE	DATE
BID SET	02.12.2026
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75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

DETAILS

SCALE: AS SHOWN

M302

DATE
2.18.2026

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CITY**MULTI**® **MODEL: AE-C400A** MITSUBISHI ELECTRIC

Job Name:

System Reference: Date:

AE-C400A
- AE-C400A may be a Master or Expansion Controller
- Operate and monitor up to 50 indoor units directly connected via M-NET
- As a master controller may control directly up to 7 additional central controllers e- IP network for LCD touchscreen display, up to 400 indoor units total
- As an expansion controller, may be controlled by master, and display the other 7 central controllers under the same master, up to 400 indoor units
- Network up to 40 total central controllers for Web Display (Integrated Centralized Control Web or iCCN) for up to 2,000 indoor units.
- Secure IP web connection with TLS 1.3 support

OPTIONAL LICENSES
- LIC-BACnet: BACnet Function
  - Connected air conditioning units can be monitored and operated not only from the existing web browser or the AE-C400A/AE-C50A's LCD, but also from the building management system using the BACnet® communication protocol. See LIC-BACnet Data Sheet for more information.
- LIC-Charge: Energy Allocation
  - The energy allocation/utility billing function is an electric energy apportionment system that apportions electric energy using input from electricity meters with a pulse generator function. The respective amounts of electric energy can be apportioned based on the operating status and capacity of each tenant. See LIC-Charge Data Sheet for more information.

SPECIFICATIONS
- Supports dual set point functionality (connected equipment dependent)
- Displays
  - CITY MULTI® compressor speed and hi/low pressure
  - Indoor unit free contact inputs/output status
  - Space temperature and humidity (from Smart ME or AI controller)
  - Error code (Error codes are able to be emailed automatically to specified recipients)
  - Unoccupied setback up temperature range
- Functions
  - Hold function (temporarily disables schedules indoor unit model dependent) - Initial setting
  - Operation data back-up
- Permits or prohibits remote controller functions:
  - On/Off
  - Change Operation Mode
  - Change Set point Temperature
  - Set Back
  - Change Fan Speed
  - Change Air Direction
- CN5 External input/output signals can be used for batch operations such as Start/Stop, Energy Peak Cut, and Emergency Stop (requires PAC-YG10HA, see app.not 3006 for Life Safety)
- CN6 External Output for refrigerant leak buzzer (requires PAC-YG10HA)
- Pulse signal input can obtain watt-hour meter, billing data and energy management data (kWh, kWh/h, kWh/day, kWh/month). Outputs of pulse signal pulse signals directly input from a metering device. (requires PAC-YG66MCA)
- Temperature set point range limits can be set for local remote controllers
- User defined indoor unit functions:
  - On/Off
  - Monitoring and Operation
  - Operation mode:
    - Auto* (Dual or Single set point)
    - Heat
    - Fan
    - Drying
    - Setback*
    - Note: *R2 Series only (connected equipment dependent)
  - Temperature Setting
  - Fan Speed
  - Airflow Direction
- Monitoring and Control:
  - CITY MULTI® indoor units
  - M- and P- Series units (requires M-Net adapter)
  - CITY MULTI® PWFY-systems heat pump units
  - DIDO controllers
  - CITY MULTI® DOAS
  - Interlock setting enables integration of general equipment inputs/outputs and indoor units
- Scheduling
  - Daily
  - Annually
  - Five pattern of weekly seasonal schedule
- Twenty four scheduled events per day. Indoor unit model dependent:
  - ON/OFF
  - Mode
  - Temperature Setting
  - Vane Direction
  - Fan
  - Speed
  - Operation Prohibits
- Timers
  - Fan operation time
  - Thermo-on time
  - Set temperature
  - Room temperature
  - Air Controller temperature and humidity (requires PAC-YG63-MCA, 2 inputs total for each controller)
- Memory back up via USB (universal serial bus)
- Memory back up via LAN (Local Area Network) port

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AE-C400A - SPECIFICATIONS, CONT.

AE-C400A CENTRALIZED CONTROLLER

Item	Specifications		
Power Supply	**Rated input**		100–240 VAC ± 10%, 50/60 Hz Single-phase
	Power Consumption		22W
Connectivity			M-NET, 100BASE-TX LAN, RS-485 (for watt-hour meter - Modbus RTU), Photocoupler input (4 inputs x2). Transistor output (2 outputs x 2) (sink type)
Ambient conditions	**Temperature**	**Operating Range**	0° C to +40° C (+32° F to +104° F)
		Storage Range	-20° C to +60° C (-4° F to +140° F)
	Humidity		30% to 90% RH (no condensation)
Weight			2.9 kg (7 lbs)
Dimensions (W x H x D)			12-1/16 x 8-5/16 x 2-27/32 in. (306 x 211 x 71.6 mm)
Installation conditions			Indoor only **To be used in a business office or similar environment

PC AND WEB BROWSER REQUIREMENTS

Item		Requirements
PC	**CPU**	1 GHz or faster (2 GHz or faster recommended)
	Memory	4 GB or more
	Screen Resolution	1024 x 768 or higher recommended
	Supported OS	• Microsoft® Windows® 11 (64-bit) • Microsoft Windows 10 (64-bit) • Mac OS*. (for web browser use only)
	Operating Environment	• .NET Framework 4.8 or higher
	Browser	• Microsoft Edge® • Google Chrome™ • Safari®
	USB	• 1 port or more (for data import / export)
	LAN port	• 100Base-TX or higher
	Microsoft® Excel®	• Microsoft Excel 2016 32-bit • Microsoft Excel 2019 32-bit • Microsoft Excel 2021 32-bit

Note: Registered trademarks
- Google is a registered trademark of Google LLC.
- Google Chrome is a registered trademark of Google LLC. in the U.S. and other countries.
- Edge is a trademark or registered trademark of Microsoft Corporation in the U.S. and other countries.
- Internet Explorer is a trademark or registered trademark of Microsoft Corporation in the U.S. and other countries.
- The official name of Internet Explorer is "Microsoft® Internet Explorer Internet browser".
- Mac OS is a trademark of Apple Inc., registered in the U.S. and other countries.
- Microsoft Office Excel is a product name of Microsoft Corporation in the U.S.
- Windows is a trademark or registered trademark of Microsoft Corporation in the U.S. and other countries.
- The official name of Windows is "Microsoft® Windows® Operating System".
- Safari is a trademark or registered trademark of Apple Inc. in the U.S.

Note: Company name or product name that is described in this manual may be a trademark or a registered trademark of each company

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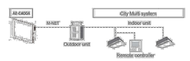
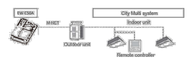
MODEL: AE-C400A - SYSTEM CONFIGURATION

CONTROLLING 50 OR FEWER UNITS OF EQUIPMENT

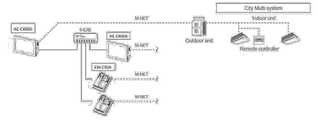
1. AE-C400A



2. EW-C50A



CONTROLLING MORE THAN 50 UNITS OF EQUIPMENT



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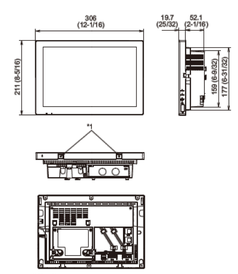
AE-C400A - DIMENSIONS

[1] Controller

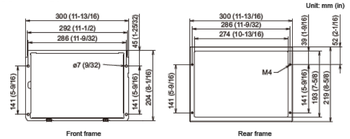
Unit: mm (in)



*1 Roundhead screw (M3 x 6)

[2] Mounting plate

Unit: mm (in)



1340 Satellite Boulevard. Suwanee, GA 30024
Toll Free: 800-433-4822 www.mehvac.com

Intertek

FORM# M_SUBMITTAL_AE-C400A - 202508

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1

VINCENT PARK MAINTENANCE FACILITY

VPF 230309

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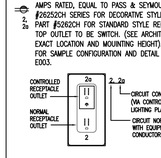
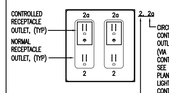
ELECTRICAL ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
AF	AMP FRAME (BREAKER APPLICATION)
AFC	AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERES INTERRUPTING CAPACITY
AL	ALUMINUM
ALCR	AUTOMATIC LOAD CONTROL RELAY
ARCH	ARCHITECT
AS	AMP SWITCH RATING
AT	AMP TRIP RATING
ATS	AUTOMATIC TRANSFER SWITCH
A/V	AUDIO VISUAL
AWG	AMERICAN WIRE GAGE
BKBD	BACKBOARD
BLDG	BUILDING
BLK	BLANK NAMEPLATE
BRKR	CIRCUIT BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CBC	CALIFORNIA BUILDING CODE
CD	RATED OUTPUT IN CANDELA
CEC	CALIFORNIA ENERGY CODE (TITLE 24 PART 6)
CFC	CALIFORNIA FIRE CODE
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY
CSFM	CA. STATE FIRE MARSHAL
CU	COPPER
CR	CLOCK RECEPTACLE
CW	COLD WATER PIPE
DWG	DRAWING
(E)	EXISTING
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION DEVICE
GND	GROUND
HP	HORSEPOWER
HZ	HERTZ
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
KV	KILO VOLT
KVA	KILO VOLT AMPS (1000VA).
KW	KILOWATT
KCMIL	THOUSAND CIRCULAR MILS
LTG	LIGHTING
LCL	LONG CONTINUOUS LOAD
LV	LOW VOLTAGE
MDF	MAIN DISTRIBUTION FRAME
MOCP	MAX. OVERCURRENT PROTECTION
MTB	MAIN TELEPHONE BACKBOARD
MPOE	MAIN POINT OF ENTRY
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
PNL	PANEL
(R)	REMOVE
(RE)	RELOCATE
(R/R)	REMOVE AND REPLACE WITH NEW
RGS	RIGID GALVANIZED STEEL CONDUIT
SWBD	SWITCHBOARD
TC	TIME CLOCK
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UGPS	UNDERGROUND PULL SECTION
UON	UNLESS OTHERWISE NOTED
VA	VOLT AMPS
V	VOLTS/VOLTAGE
W	WATTS/WATTAGE
WP	WEATHERPROOF
XFMR	TRANSFORMER

WALL MOUNTED SPLIT DUPLEX OUTLET. 120V, 15 AMPS RATED, EQUAL TO PASS & SEYMOUR PART #2625ZOCH SERIES FOR DECORATIVE STYLE RECEPTACLE, PART #5262CH FOR STANDARD STYLE RECEPTACLE. TOP OUTLET TO BE SWITCH. (SEE ARCHITECT FOR EXACT LOCATION AND MOUNTING HEIGHT). SEE BELOW FOR SAMPLE CONFIGURATION AND DETAIL #6, SHEET E003.



WALL MOUNTED SPLIT QUADUPLEX OUTLET. 120V, 15 AMPS RATED, EQUAL TO PASS & SEYMOUR PART #2625QCH SERIES FOR DECORATIVE STYLE RECEPTACLE PART #5262CH FOR STANDARD STYLE RECEPTACLE. TOP OUTLET TO BE SWITCH. (SEE ARCHITECT FOR EXACT LOCATION AND MOUNTING HEIGHT). SEE BELOW FOR SAMPLE CONFIGURATION AND DETAIL #6, SHEET E003



GENERAL ELECTRICAL NOTES

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODE STANDARDS:

2022 BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 PART 1
2022 CALIFORNIA BUILDING CODE (CBC), TITLE 24 PART 2
2022 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24 PART 3
2022 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24 PART 4
2022 CALIFORNIA PLUMBING CODE (CPC), TITLE 24 PART 5
2022 CALIFORNIA FIRE CODE (CFC), TITLE 24 PART 9
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), TITLE 24 PART 11
2022 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24 PART 12

2022 TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
ALL APPLICABLE NFPA REQUIREMENTS FOR FIRE ALARM SYSTEMS, AUTOMATIC SPRINKLER SYSTEMS, STANDPIPE SYSTEMS, PRIVATE FIRE MAINS AND WET CHEMICAL EXTINGUISHING SYSTEMS
REFERENCE CODE SECTION FOR NFPA STANDARDS--CBC [SFM] 3503.1.3
UNDERWRITERS LABORATORY (UL), NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) AND AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
ALL OTHER APPLICABLE STATE, LOCAL LAWS AND REGULATIONS

1. VERIFYING EXISTING CONDITIONS
BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING SITE. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST.

2. COORDINATION
COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTION REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.

ELECTRICAL EQUIPMENT LOCATIONS INDICATED ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE VERIFIED.

3. SERVICE CONTINUITY
UNINTERRUPTED EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY POWER AREAS OF THE SITE DURING CONSTRUCTION. PROVIDE ANY TEMPORARY SERVICES AS MAY BE REQUIRED. IDENTIFY AT BID TIME, ALL WORK TO BE DONE ON PREMIUM TIME AND THE TOTAL OVERTIME MAN-HOURS REQUIRED FOR COMPLETION.

4. AS BUILT
PROVIDE RECORD DRAWINGS TO THE OWNER AND THE ELECTRICAL ENGINEER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT. RECORD DRAWINGS SHALL BE SIGNED AND DATED BY CONTRACTOR PRIOR TO RELEASE OF FINAL RETENTION OF ALL MONIES.

MARK PROJECT RECORD DOCUMENTS DAILY TO INDICATE ALL CHANGES MADE IN THE FIELD.
INDICATE ALL CHANGES OF EQUIPMENT LOCATIONS AND RATINGS, TRIP SIZES AND SETTINGS ON CIRCUIT BREAKERS, ALTERATIONS IN RACEWAY RUNS AND SIZES, CHANGES IN WIRE SIZES, CIRCUIT DESIGNATIONS, INSTALLATION DETAILS, ONE-LINE DIAGRAMS, CONTROL DIAGRAMS AND SCHEDULES.

USE GREEN TO INDICATE DELETIONS AND RED TO INDICATE ADDITIONS. USE THE SAME SYMBOLS AND FOLLOW THE SAME DRAFTING CONVENTIONS USED ON THE CONTRACT DRAWINGS.

LOCATE UNDERGROUND CONDUIT STUBBED-OUT FOR FUTURE USE, UNDERGROUND FEEDER CONDUITS, AND FEEDER PULL BOX LOCATIONS USING BUILDING LINES BY INDICATING ON THE PROJECT RECORD DRAWINGS.

AT THE COMPLETION OF UNDERGROUND CONDUIT INSTALLATION PROVIDE UNDERGROUND CONDUIT RECORD DOCUMENTS TO OWNER'S REPRESENTATIVE.

TWO COPIES OF LOCAL AND/OR STATE CODE ENFORCING AUTHORITIES FINAL INSPECTION CERTIFICATES.

FIRE ALARM SYSTEM RECORDS AND TESTING REPORTS AS OUTLINED IN NFPA 72, CHAPTER 10.

TWO COPIES, IN BINDER FORM, OF ELECTRICAL EQUIPMENT CUT SHEETS, MANUFACTURER'S INSTALLATION INSTRUCTIONS, WARRANTY CERTIFICATES, AND PRODUCT LITERATURE FOR ALL PRODUCTS UTILIZED ON PROJECT.

5. GUARANTEE
THE CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL HIS WORK FOR ONE YEAR AFTER ACCEPTANCE AND FURNISH ALL MANUFACTURER WARRANTIES FOR THE EQUIPMENT HE PROVIDES.

6. SHOP DRAWINGS
SUBMIT SHOP DRAWINGS AND MATERIAL LIST FOR REVIEW PRIOR TO COMMENCING ANY WORK. ALL EQUIPMENT TO BEAR U.L. LABEL OR THAT OF ANOTHER ACCEPTABLE TESTING LABORATORY. SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR FOR CONFORMANCE PRIOR TO SUBMITTAL.

SUBMIT SIX SETS OF SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASING ALL BREAKER MOUNTING HARDWARE, DISCONNECT SWITCHES, FUSES, CONTROLLERS, LIGHTING FIXTURES, LIGHT SWITCHES, RECEPTACLES, ETC.

7. CONTRACTOR BID
CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND AS SPECIFIED. HE SHALL BECOME FAMILIAR WITH ALL ASPECTS OF THE NEW CONSTRUCTION AND ALL REQUIREMENTS THAT MAY BE IMPOSED BY THE OWNER. IF CONTRACTOR PROPOSES TO SUBSTITUTE FOR EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST FOR CONSIDERATION OF THE OWNER AND ENGINEER PRIOR TO BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER IN WRITING. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHANGES RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, THE OWNER, ENGINEER OF RECORD OR THE WORK OF OTHER CONTRACTORS.

B. MATERIALS
ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST RULES OF THE GOVERNING ELECTRICAL CODE AND INSTALLATION SHALL BE OF THE LATEST INDUSTRY STANDARDS OF WORKMANSHIP.

ALL MATERIALS SHALL BE NEW AND LISTED BY UNDERWRITERS LABORATORY (UL).

1. CONDUITS
CONDUIT SHALL BE EMT, PVC, IMC, RIGID OR FLEXIBLE STEEL TYPE. CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH UL-1. A GROUND WIRE IS REQUIRED IN ALL FLEXIBLE CONDUIT AND UNDERGROUND CONDUIT. BUSHINGS SHALL BE INSTALLED ON ALL COMMUNICATION, TELEPHONE AND SPEAKER CONDUITS. PROVIDE 3/16" NYLON PULL STRING IN ALL EMPTY CONDUITS. NO MC, BX OR ACSO SHALL BE PERMITTED.

2. SWITCHES AND RECEPTACLES
PROVIDE 20AMP NEMA RATED SWITCHES AND RECEPTACLES OF SPECIFICATION GRADE. ALL SWITCHES SHALL BE RATED FOR 120 AND/OR 277 VOLT AND RECEPTACLES SHALL BE NEMA 5-20R UNLESS OTHERWISE NOTED. IN ALL OFFICES AND OFFICE AREAS DEVICES SHALL BE DECORA TYPE WITH COLOR SELECTION BY CONTRACTOR/OWNERS REPRESENTATIVE.

3. FEEDERS AND BRANCH CIRCUITS IDENTIFICATION
IDENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, LOAD END, AND IN PULL BOXES WITH E-Z CODE OR OTHER APPROVED WIRE MARKER.

IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS, THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS. USE PLASTIC COATED SELF-STICKING MARKERS SUCH AS THOMAS & BETTS E-Z CODE FOR IDENTIFICATION OF CONDUCTORS.

IDENTIFY SIGNAL AND COMMUNICATION CABLES AT TERMINAL AND OUTLET.

4. CONDUCTORS
ALL WIRING SHALL BE COPPER, MINIMUM SIZE #12 AWG UNLESS OTHERWISE NOTED. USE THHN IN DRY LOCATIONS ONLY AND THWN IN WET LOCATIONS UNLESS OTHERWISE NOTED.

5. LIGHTING FIXTURES
PROVIDE LUMINAIRE FIXTURES WITH ELECTRONIC BALLASTS PER SCHEDULE, PROVIDE WITH LAMPS BY G.E., PHILIPS OR SYLVANIA AS STATED IN THE SCHEDULE.

6. PANELBOARDS (EATON CUTLER HAMMER)
DISTRIBUTION AND LIGHTING PANELBOARDS WITHIN PROJECT AREA SHALL BE OF THE COPPER BUS THREE PHASE, FOUR WIRE DISTRIBUTED PHASING TYPE. CIRCUITING SHALL BE ARRANGED TO PROVIDE, AS NEARLY AS POSSIBLE, AN EVENLY BALANCED LOAD ON ALL PHASES. PANEL BOARDS SHALL BE BOLT-ON CIRCUIT BREAKER TYPE. AVAILABLE FAULT CURRENT IS STATED ON PANEL BOARD SCHEDULE. BREAKERS SHALL MATCH PANEL BOARD FAULT CURRENT. PROVIDE PANEL IDENTIFICATION NAMEPLATE (ENGRAVED ON-ADHESIVE 1/2" MINIMUM LETTERS) AND TYPEWRITTEN LIST OF CIRCUITS IN THE DIRECTORY FRAME.

C. DEMOLITION
NOTIFY THE OWNER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, AND WHICH IS NOT INDICATED ON THE PLANS.

1. ALL REMOVED MATERIALS AND EQUIPMENT WHICH ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP.

2. ALL DEVICES, CIRCUITS CONDUCTORS, FEEDERS ETC., WHEN NOTED TO BE REMOVED, SHALL BE REMOVED TO THE LAST ACTIVE DEVICE. ALL OVER-CURRENT PROTECTION AND DISCONNECT DEVICES NO LONGER UTILIZED BUT REMAINING AS LAST ACTIVE DEVICE SHALL BE LABELED AS "SPARE". COORDINATE ALL OUTAGES WITH OWNERS REPRESENTATIVE.

D. EXECUTION
CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONFINES AS MUCH AS POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.

1. EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

2. DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL NEW ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTINGS PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC.

3. ALL CONDUIT RUNS SHALL BE CONCEALED, UNLESS SHOWN OTHERWISE. PROVIDE A PULL WIRE IN ALL EMPTY CONDUITS.

4. EXISTING CONDITION SHOWN IS FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEY AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITION AT SITE.

5. ALL WORK SHOWN IS NEW UNLESS SPECIALLY INDICATED AS EXISTING (E). ALL ELECTRICAL EQUIPMENT MOUNTING AND ANCHORAGE MUST CONFORM WITH LOCAL AND STATE SEISMIC CODES.

ELECTRICAL CONTRACTOR SCOPE OF WORK INCLUDES:
a. IDENTIFY ALL CONDUITS ATTACHED TO ELECTRICAL PANEL AND LABEL CIRCUIT NUMBER(S) ON WHITE BACKGROUND LABELING.
b. TRACE OUT, INVENTORY AND VERIFY ALL BRANCH CIRCUITS AND PROVIDE UPDATED PANEL CIRCUITING INFORMATION WITH HIGHLIGHTED MAP OF EFFECTED AREAS. (IDENTIFY PER ELECTRICAL PLANS).
c. PROVIDE UPDATED PANEL SCHEDULE INDICATING PANEL NAME, LOCATION, FED FROM, MAIN CIRCUIT BREAKER OR MAIN LUG RATING, BREAKERS COUNT AND RATING, EQUIPMENT DESCRIPTIONS AND/OR ROOM NUMBER. PANEL SCHEDULE TO BE TYPEWRITTEN. PANEL SCHEDULE PROTECTED BY TRANSPARENT PLASTIC COVER. (AS-BUILT AS REQUIRED).
d. PROVIDE PARTIAL SINGLE LINE DIAGRAM ILLUSTRATING UPSTREAM BREAKER FEEDING PANEL AND ALL DOWNSTREAM ELECTRICAL EQUIPMENT WITH VOLTAGE, AMPERE, FEEDER WIRES AND CONDUIT SIZE, DISCONNECT SWITCH AND TRANSFORMER.
e. THE CONTRACTOR TO VERIFY ALL CIRCUIT NUMBER AND LOADS FOR ALL EXISTING EQUIPMENT PRIOR TO INSTALLATION OF NEW OR RELOCATED ELECTRICAL EQUIPMENT. REASSIGN CIRCUITS AND LOADS ACCORDINGLY. PROVIDE COMPLETE "AS-BUILT" DRAWINGS AND TYPEWRITTEN DIRECTORIES FOR PANELS.

A. GENERAL
1. SCOPE
THE DRAWINGS AND THESE GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND SYSTEMS. THE MATERIAL REQUIRED FOR THE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, UNLESS SPECIFICALLY NOTED OTHERWISE. THE WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING PRINCIPAL SYSTEMS AND EQUIPMENT.

2. PERMITS AND CHARGES
OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS, INSPECTION FEES, AND OTHER CHARGES BY AGENCIES HAVING JURISDICTION.

3. REGULATIONS AND CODES
PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE LATEST EDITION OF CALIFORNIA ELECTRICAL CODE (AND ALL LOCALLY ADOPTED AMENDMENTS), CALIFORNIA ADMINISTRATIVE CODE TITLE 8, AND OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND THE MANUFACTURERS RECOMMENDATIONS.

E. TELEPHONE SYSTEMS
PROVIDE RACEWAYS, AND ALL MATERIAL INCLUDING PULLING CABLE IN EACH RACEWAY AS REQUIRED FOR THE TELEPHONE SYSTEM PER THE SERVING TELEPHONE COMPANY REQUIREMENTS.

F. GROUNDING AND BONDING
FURNISH AND INSTALL COMPLETE BONDING AND GROUNDING SYSTEM AS REQUIRED BY CODES. CONTINUITY OF GROUNDING SHALL BE MAINTAINED MECHANICALLY AND ELECTRICALLY THROUGHOUT THE SYSTEM. A GREEN GROUNDING CODE SIZED CONDUCTOR SHALL BE CARRIED IN ALL CONDUITS.

G. INSTALLATION
IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. TOWARD THIS END FURNISH ALL LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS AND HARDWARE. REFER ALSO TO WRITTEN SPECIFICATIONS FOR GENERAL, MECHANICAL AND ELECTRICAL SECTIONS.

THE CONTRACTOR SHALL INSTALL ALL ELECTRIC EQUIPMENT IN A NEAT AND WORKMANLIKE MANNER.

1. PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH. COMPLY WITH CODES: NOTHING IN THESE PLANS AUTHORIZES DEVIATION FROM APPLICABLE CODES.

2. DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND BRANCH HOMERUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS.

3. PROVIDE A CODE APPROVED DISCONNECT SWITCH OR BREAKER WITHIN SIGHT OF EVERY MOTOR AND FEED MOTORS NOT EQUIPPED WITH "BUILT IN" PROTECTION THROUGH A MAGNETIC OR MANUAL STARTER WITH OVERLOAD HEATERS SIZED TO COMPLY WITH MOTOR MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES.

4. FOR CONNECTIONS TO EXHAUST FANS, PUMPS, COMPRESSORS, SPACE HEATERS, WATER HEATERS, AQUASTATS, SOLENOID VALVES AND OTHER MECHANICAL EQUIPMENT AND FOR CONDUITS AND WIRE REQUIRED BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS REFER TO MECHANICAL PLANS AND DETERMINE EXACT LOCATIONS UNDER DIRECTION OF HEATING AND VENTILATING CONTRACTOR.

5. DO NOT RUN ANY CONDUIT IN SLAB IF ITS OUTSIDE DIAMETER EXCEEDS 1/3 THE THICKNESS OF THE SLAB. LOCATE CONDUITS WITHIN THE MIDDLE OF THE SLAB. WHERE CONDUITS ARE GROUPED IN PARALLEL RUNS, SPACE THEM 3" OR MORE APART. WHERE CONDUITS CROSS EACH OTHER, THICKEN SLAB PROPORTIONATELY OVER A HORIZONTAL AREA EQUAL TO TEN TIMES THE DIAMETER OF THE LARGEST CONDUIT. REFER ALSO TO DETAILS SHOWN.

6. FOR CIRCUITS FED THROUGH FLUORESCENT FIXTURE CHANNELS AND FEEDS TO RECESSED INCANDESCENT FIXTURES USE INSULATED WIRE OF 105 DEG. CELSIUS RATING.

7. SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1 1/2" DEEP.

8. EXAMINE PLANS TO DISCERN CEILINGS WITH A FIRE RATING OF ONE HOUR OR MORE, PROVIDE A ONE HOUR FIRE-RATED ENCLOSURE OVER EACH LIGHT FIXTURE RECESSED THEREIN.

9. ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH, OR AT RIGHT ANGLES TO, COLUMN LINES OR BEAMS AND SEPARATED BY AT LEAST THREE (3) INCHES FROM WATER LINES WHENEVER THEY RUN LONG SIDE OR ACROSS SUCH LINES. CONDUIT SHALL NOT BE RUN BELOW CABLE TRAYS OR LIGHT FIXTURES WITHOUT SPECIFIC APPROVAL OF THE OWNERS REPRESENTATIVE. HANGERS SHALL BE FASTENED TO STEEL, CONCRETE OR MASONRY, BUT NOT TO PIPING. HANGERS AND SUPPORT SYSTEMS ARE AN INTEGRAL PART OF THE VISUAL ENVIRONMENT. ALL HANGERS AND SUPPORTS EXPOSED TO PUBLIC VIEW MUST BE SHOWN IN DETAIL ON PLANS SUBMITTED TO LANDLORD FOR APPROVAL OF APPEARANCE. ALL HANGERS MUST BE UNIFORMLY SPACED AND NEATLY INSTALLED WITH NO EXCESS MATERIAL BEYOND WHAT IS REQUIRED FOR THE SUPPORT FUNCTION. CONTRACTOR SHALL SELECT ACCESSORIES AND HARDWARE WITH A SMOOTH, NEAT FINISHED APPEARANCE AND PAINT ALL EXPOSED CONDUIT HANGERS TO MATCH THE ADJACENT FINISHES.

10. SEE PROJECT ARCHITECTURAL DRAWINGS FOR HEIGHTS OF ALL WALL RECEPTACLES, LIGHT SWITCHES AND OCCUPANT-OPERATED HVAC CONTROLS. DEVICES SHALL COMPLY WITH ADA REQUIREMENTS (MEASURED FROM BOTTOM AND TOP OF BOXES RESPECTIVELY):

RECEPTACLE OUTLETS: 18" TO 48" AFF
SWITCHES: 48" AFF
OCCUPANT-OPERATED HVAC CONTROLS: 48" AFF
(DEVICES ABOVE COUNTERTOPS SHALL BE MAXIMUM 44" AFF TO TOP)

WHERE ARCHITECTURAL DRAWINGS DO NOT INDICATE HEIGHT, PROVIDE THE FOLLOWING STANDARD HEIGHTS UNLESS OTHERWISE NOTED:

RECEPTACLE OUTLETS (NOT ABOVE COUNTERTOPS) SHALL BE 18" TO CENTER OF BOX.
SWITCHES AND OCCUPANT-OPERATED HVAC CONTROLS (NOT ABOVE COUNTERTOPS) SHALL BE 44" TO TOP OF BOX.
RECEPTACLES, SWITCHES AND OCCUPANT-OPERATED HVAC CONTROLS ABOVE COUNTERTOPS SHALL BE +44" AFF TO TOP OF BOX.

WHERE NON-STANDARD HEIGHT IS INDICATED ON PLAN, HEIGHT INDICATED REPRESENTS TOP OF BOX.

11. CONTRACTOR SHALL EXAMINE PLANS AND VERIFY IN FIELD LOCATIONS OF ALL FIRE RATED WALLS, CEILINGS AND FLOORS. CONTRACTOR SHALL SEAL ALL ELECTRICAL SYSTEM PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS AND FLOORS WITH U.L. LISTED MATERIAL APPROVED BY THE AUTHORITY HAVING JURISDICTION.

12. SURFACE MOUNTED RACEWAY COMPLETENESS; CONTRACTOR SHALL PROVIDE ALL RACEWAY, FITTINGS, SUPPORTS, BOXES, DEVICES PLATES, ETC. NECESSARY FOR A COMPLETE AND WORKABLE SURFACE MOUNTED ELECTRICAL RACEWAY SYSTEM. PRIOR TO INSTALLATION CONTRACTOR SHALL PERFORM A PREINSTALLATION SURFACE MOUNTED RACEWAY JOB WALK WITH OWNER AND ARCHITECT FOR CONTRACTOR TO FIELD VERIFY EXACT ROUTING OF ANY AND ALL SURFACE MOUNTED RACEWAYS.

13. ALL TRANSFORMERS THAT ARE FLOOR MOUNTED SHALL BE MOUNTED ON 4" THICK HOUSEKEEPING PAD. TRANSFORMER SHALL BE ON VIBRATION ISOLATION PADS AND CONNECTED WITH FLEXIBLE CONDUIT.

14. EACH SECTION OF FLOOR MOUNTED SWITCHBOARD, DISTRIBUTION BOARD, MCC, ETC. SHALL BE BOLTED TO A 4" THICK CONCRETE HOUSEKEEPING PAD USING (6) 3/4"-10 GRADE 2 BOLTS AND CONICAL WASHERS TORQUED TO 70LB-FT. PROVIDE MINIMUM 4000 PSI STRENGTH CONCRETE BELOW ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. TIE THE TOP OF ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT TO THE BUILDING STRUCTURE IN A SEISMICALLY APPROVED MANNER.

15. ELECTRICAL SYSTEM ANCHORAGE
ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR SEISMIC ANCHORED BY THE CONTRACTOR TO RESIST SEISMIC FORCES ACTING IN ANY DIRECTION. PROVIDE COMPLETE SEISMIC ANCHORAGE AND BRACING FOR SUPPORT OF ELECTRICAL RACEWAYS, CONDUITS, CABLE TRAYS, ELECTRICAL EQUIPMENT ETC. IN ACCORDANCE WITH UNIFORM BUILDING CODE WITH CALIFORNIA AMENDMENTS.

THE SEISMIC BRACING AND ANCHORAGE SHALL BE PROVIDED PER SMACNA 2022 SEISMIC RESTRAINT GUIDELINES.

ALL ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF SMACNA GUIDELINES. WHERE BRACING DETAILS ARE NOT SHOWN ON THE PLANS, THE FIELD INSTALLATIONS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEERS, AND THE ARCHITECT. A COPY OF THE LATEST SMACNA GUIDELINES SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.

16. ALL SWITCHBOARDS AND PANEL BOARDS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRICAL ARC FLASH HAZARDS PER CEC 110.16. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

H. FIRE ALARM SYSTEM (DESIGN BUILD) BY CONTRACTOR

1. CONTRACTOR SHALL SUBMIT FOR THE OWNERS SIGNED APPROVAL, APPROVED FIRE DEPARTMENT, STATE FIRE MARSHAL, AND FIRE ALARM DRAWINGS FOR THE PROJECT SPACE.
2. ALL DEVICES AND EQUIPMENT SHALL BE CALIFORNIA STATE FIRE MARSHALL APPROVED.
3. CONTRACTOR SHALL WARRANTY ALL DEVICES AND SYSTEMS FOR A PERIOD OF TWO YEARS.
4. CONTRACTOR SHALL PROVIDE A SATISFACTORY SYSTEM TEST IN THE PRESENCE OF THE OWNER, FIRE PREVENTION BUREAU AND CONSULTING ENGINEER.

STATE FIRE MARSHAL NOTE
THE FIRE ALARM SYSTEM SHALL CONFORM TO THE 2022 CALIFORNIA ELECTRICAL CODE (CEC) ARTICLE 760, AND THE 2022 CALIFORNIA FIRE CODE (CFC) 105.7 & 907. (SEE CITY OF JURISDICTIONS APPLICABLE CODE STATUS).

INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT START UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL.

J. NO PIPING DUCTS OR FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITH DEDICATED SPACE ABOVE ELECTRICAL EQUIPMENT

K. ALL BREAKERS FEEDING MULTIPLE CIRCUIT HOMERUNS SHALL BE PROVIDED WITH UL LISTED HANDLE TIES ON SINGLE POLE BREAKERS

DEMO SCOPE AND SPECIFICATIONS

1.0 EXAMINATION
- A. OBTAIN RECORD DRAWINGS, AS-BUILTS FROM OWNER. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS ARE AS SHOWN ON RECORD DRAWINGS.
- B. VERIFY THAT ABANDONED WIRING AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES.
- C. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO OWNER AND ARCHITECT/ENGINEER BEFORE DISTURBING EXISTING INSTALLATION.
- D. BEGINNING OF DEMOLITION MEANS INSTALLER ACCEPTS EXISTING CONDITIONS.

2.0 PREPARATION
- A. DISCONNECT AND MAKE SAFE ALL ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.
- B. COORDINATE UTILITY SERVICE OUTAGES WITH UTILITY COMPANY AND OWNER'S REPRESENTATIVE.
- C. PROVIDE TEMPORARY GENERATORS, WIRING AND CONNECTIONS TO MAINTAIN REQUIRED EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
- D. EXISTING ELECTRICAL SERVICE: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER AT LEAST 72 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA WHEN OUTAGE AFFECTS BUSINESS OPERATION.
- E. EXISTING FIRE ALARM SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS ACCEPTED. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY OWNER AND LOCAL FIRE SERVICE AT LEAST 72 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.
- F. EXISTING TELEPHONE SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR SERVICE AND NEW SYSTEM IS ACCEPTED. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY OWNER AND TELEPHONE UTILITY COMPANY AT LEAST 72 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.
- G. EXISTING SECURITY SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR SERVICE AND NEW SYSTEM IS ACCEPTED. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM THE OWNER AND SECURITY COMPANY AT LEAST 72 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.

3.0 DEMOLITION AND EXTENSION OF EXISTING WORK
- A. DEMOLISH AND EXTEND EXISTING ELECTRICAL WORK UNDER PROVISIONS OF THIS SECTION.
- B. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
- C. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY AND RE-LABEL DEVICES AS SPARES.
- D. REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.
- E. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.
- F. DISCONNECT AND REMOVE ABANDONED PANELBOARDS AND DISTRIBUTION EQUIPMENT.
- G. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED.
- H. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.
- I. DISCONNECT AND REMOVE ABANDONED CONDUIT.
- J. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
- K. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.
- L. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, AND IN COMPLIANCE WITH NEW PROJECT SPECIFICATIONS.
- M. MODIFY EXISTING AS-BUILT DRAWINGS TO NOTE CHANGES.

4.0 CLEANING AND REPAIR
- A. CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT WHICH REMAIN OR ARE TO BE REUSED.
- B. PANELBOARDS: CLEAN EXPOSED SURFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AND PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. PROVIDE TYPED CIRCUIT DIRECTORY SHOWING REVISED CIRCUITING ARRANGEMENT.
- C. LUMINAIRES: REMOVE EXISTING LUMINAIRES FOR CLEANING. USE MILD DETERGENT TO CLEAN ALL EXTERIOR AND INTERIOR SURFACES; RINSE WITH CLEAN WATER AND WIPE DRY. REPLACE LAMPS, BALLASTS, AND BROKEN ELECTRICAL PARTS.

5.0 INSTALLATION
- A. INSTALL RELOCATED MATERIALS AND AS REQUIRED BY THIS SECTION AND OWNER'S REPRESENTATIVE.

6.0 REFERENCE STANDARDS

A. PUBLISHED CODES, SPECIFICATIONS, STANDARDS, TESTS OR RECOMMENDED METHODS OF TRADE, INDUSTRY OR GOVERNMENTAL ORGANIZATIONS, OR LOCAL UTILITIES APPLY TO WORK IN THIS DIVISION WHERE CITY BELOW:
1. ANSI-AMERICAN NATIONAL STANDARDS INSTITUTE.
2. ASTM-AMERICAN SOCIETY OF TESTING AND MATERIALS.
3. ETL-ELECTRICAL TESTING LABORATORIES.
4. FCC-FEDERAL COMMUNICATIONS COMMISSION.
5. ICEA-INSULATED CABLE ENGINEERS ASSOCIATION.
6. IEEE-INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS.
7. IES-ILLUMINATING ENGINEERING SOCIETY.
8. NEC-NATIONAL ELECTRICAL CODE.
9. NEMA-NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION.
10. NFPA-NATIONAL FIRE PROTECTION ASSOCIATION.
11. OSHA-OCCUPATIONAL SAFETY AND HEALTH ACT.
12. UBC-UNIFORM BUILDING CODE.
13. UL-UNDERWRITERS' LABORATORIES, INC.
14. LOCAL UTILITY AUTHORITIES.
15. ADA-AMERICANS WITH DISABILITIES ACT.

GENERAL SPECIFICATIONS

G. LIGHTING FIXTURES
1. PROVIDE FIXTURES, COMPONENTS AND LAMPS.
2. TYPE OF FIXTURES INDICATED BY LETTERS.
3. INCANDESCENT: 120 VOLT, EXCEPT AS NOTED.
4. LED: 120/277, EXCEPT AS NOTED.
5. FLUORESCENT:
   A) 120/277 VOLT, EXCEPT AS NOTED.
   B) SHALL BE CERTIFIED BY THE MANUFACTURER TO COMPLY WITH TITLE 24.
6. FIXTURE CATALOG NUMBERS USED TO ILLUSTRATE EQUIPMENT TYPE DO NOT NECESSARILY DENOTE REQUIRED MOUNTING EQUIPMENT OR ACCESSORIES. PROVIDE ACCESSORIES TO SUIT.

7. LED ELECTRONIC DIMMING DRIVER:
A. ELECTRONIC DIMMING DRIVER SHALL BE U.L. LISTED AND CLASS P THERMALLY PROTECTED.
B. MANUFACTURER SHALL TAKE SOLE RESPONSIBILITY FOR COMPATIBILITY OF ELECTRONIC DIMMING DRIVER AND DIMMING CONTROLS.
C. BALLASTS SHALL WITHSTAND 4000-VOLT SURGES AS SPECIFIED IN ANSI C62.41.
D. BALLASTS SHALL INTERNALLY LIMIT INRUSH CURRENT TO NOT EXCEED THREE AMPS AT 277 VOLTS OR SEVEN AMPS AT 120 VOLTS TO AVOID COMPUTER PROBLEMS, NUISANCE CIRCUIT BREAKER TRIPS, AND CONTROL CONTACT MALFUNCTIONS.
E. LIGHT LEVEL OUTPUT SHALL BE CONTINUOUS, EVEN AND FLICKER-FREE OVER THE ENTIRE DIMMING RANGE.
F. DRIVER SHALL BE INAUDIBLE IN A 27DB AMBIENT THROUGHOUT THE DIMMING RANGE.
G. BALLASTS MUST COMPLY WITH FCC PART 18 REGULATIONS FOR NON-CONSUMER RF LIGHTING DEVICES.
H. DRIVER SHALL HAVE A MINIMUM STARTING TEMPERATURE OF 10°C.
I. DIMMING RANGE OF DRIVER SHALL BE FROM 100 PERCENT TO 1 PERCENT LIGHT LEVEL.
J. BALLAST SHALL HAVE A POWER FACTOR EQUAL TO .95, A BALLAST FACTOR EQUAL TO 0.93 THROUGHOUT THE ENTIRE DIMMING RANGE, MAGNITUDE OF HARMONIC DISTORTION SHALL NOT EXCEED 10 PERCENT THD OF CURRENT AT FULL LIGHT OUTPUT.

8. FLUORESCENT ELECTRONIC BALLASTS:
A. BALLASTS SHALL BE COMPLETELY OF SOLID STATE DESIGN.
B. BALLAST CONTROL VIA 0-10V CONTROL SIGNAL UNLESS SPECIFICALLY NOTED
C. BALLAST FACTOR OF 0.90 OR HIGHER.
D. LAMP CURRENT CREST FACTOR LESS THAN 1.7.
E. OPERATION SHALL BE AT A FREQUENCY GREATER THAN 20,000 HZ.
F. POWER FACTOR SHALL BE 0.90 OR HIGHER.
G. TOTAL HARMONIC DISTORTION SHALL BE 10 PERCENT OR LESS.
H. LIGHT OUTPUT SHALL REMAIN CONSTANT FOR LINE VOLTAGE VARIATIONS OF PLUS OR MINUS 10 PERCENT.
I. SOUND RATING OF "A".
J. SPECIFIC DESIGN FOR LAMPS SPECIFIED.
K. PROVIDE FILAMENT HEATING DURING STARTING TO AVOID ANY REDUCTION IN RATED LAMP LIFE.
L. LISTED AS CLASS P.
M. MEET ANSI SPECIFICATIONS AND FCC REQUIREMENTS FOR TRANSIENT PROTECTION AND EMI/RFI LIMITATION.
N. A WARRANTY MUST BE IN FORCE COVERING REPLACEMENT OF BALLASTS, WHICH FAIL WITHIN FIVE (5) YEARS OF DATE OF INSTALLATION.
O. ELECTRONIC BALLAST SHALL BE MANUFACTURED BY MAGNETEK, ADVANCE, MOTOROLA, OR LUTRON COMPANY. (SEE MANUFACTURER'S VENDOR REQUIREMENTS).

9. FLUORESCENT ELECTRONIC DIMMING BALLAST:
A. ELECTRONIC DIMMING BALLASTS SHALL BE U.L. LISTED AND CLASS P THERMALLY PROTECTED.
B. MANUFACTURER SHALL TAKE SOLE RESPONSIBILITY FOR COMPATIBILITY OF ELECTRONIC DIMMING BALLASTS AND DIMMING CONTROLS.
C. BALLASTS SHALL WITHSTAND 4000-VOLT SURGES AS SPECIFIED IN ANSI C62.41.
D. BALLAST SHALL PREHEAT LAMP CATHODES BEFORE APPLYING ARC VOLTAGE TO ENSURE RATED LAMP LIFE IS NOT DIMINISHED.
E. BALLASTS SHALL INTERNALLY LIMIT INRUSH CURRENT TO NOT EXCEED THREE AMPS AT 277 VOLTS OR SEVEN AMPS AT 120 VOLTS TO AVOID COMPUTER PROBLEMS, NUISANCE CIRCUIT BREAKER TRIPS, AND CONTROL CONTACT MALFUNCTIONS.
F. LIGHT LEVEL OUTPUT SHALL BE CONTINUOUS, EVEN AND FLICKER-FREE OVER THE ENTIRE DIMMING RANGE.
G. BALLAST SHALL BE INAUDIBLE IN A 27DB AMBIENT THROUGHOUT THE DIMMING RANGE.
H. BALLAST SHALL BE CAPABLE OF STRIKING LAMPS AT ANY LIGHT LEVEL. THIS SHALL BE ACCOMPLISHED WITHOUT FIRST FLASHING TO FULL LIGHT.
I. BALLASTS MUST COMPLY WITH FCC PART 18 REGULATIONS FOR NON-CONSUMER RF LIGHTING DEVICES.
J. BALLASTS SHALL HAVE A MINIMUM STARTING TEMPERATURE OF 10°C.
K. DIMMING RANGE OF BALLASTS SHALL BE FROM 100 PERCENT TO 1 PERCENT LIGHT LEVEL FOR T-12 AND T-8 LAMPS, 100 PERCENT TO 5 PERCENT LEVEL FOR T-5 AND T-4 LAMPS.
L. BALLAST SHALL HAVE A POWER FACTOR EQUAL TO .95, A BALLAST FACTOR EQUAL TO .93 THROUGHOUT THE ENTIRE DIMMING RANGE, MAGNITUDE OF HARMONIC DISTORTION SHALL NOT EXCEED 10 PERCENT THD OF CURRENT AT FULL LIGHT OUTPUT. LAMP CURRENT CREST FACTOR LESS THAN OR EQUAL TO 1.6.

9. CONTRACTOR'S BASE BID IS TO INCLUDE FIXTURES ON SCHEDULE (SEE DRAWINGS).

A. OCCUPANCY SENSORS
1. 120 VOLT OR 277 VOLT AS REQUIRED.
2. 20 AMP CONTACT RATING IN POWER PACK OR ROOM CONTROLLER.
3. SOURCE: ULTRASONIC OR INFRARED PER SCHEDULE ON DRAWINGS
4. CEILING OR WALL MOUNTED AS REQUIRED.
5. CONTROL TRANSFORMER AND SWITCHING CONTROL: CLASS 2 WITH APPROVED PLENUM WIRING.
6. PROVIDE CONTROL SWITCHPACKS/TOOM CONTROLLER AS REQUIRED.
7. FIELD ADJUSTMENTS:

B. SENSITIVITY.
C. OFF DELAY (15 SECONDS TO 30 MINIMUM).
8. COVERAGE PATTERNS, APPLICATION AND SENSOR LOCATIONS SHALL BE COORDINATED WITH MANUFACTURERS REPRESENTATIVE.
9. AS SCHEDULED ON DRAWINGS.
10. MANUFACTURER: SEE DETAIL/SCHEDULE ON DRAWINGS.

I. TELEPHONE/DATA CONDUIT SYSTEM:
1. COMPLETE SYSTEM OF:
   a. EMPTY CONDUIT.
   b. PULL BOXES.
   c. OUTLETS.
   d. SLEEVES.
   e. FISHWIRES.
   f. TERMINAL BOARDS.
   g. TERMINAL STRIP CABINETS.
2. OUTLETS:
   h. WALL: 4 INCH SQUARE WITH BUSHED COVER PLATE.
   i. FLOOR: POKE-THROUGH FITTINGS.
3. TERMINAL BOARDS: FIREPROOF PLYWOOD, SIZES AS INDICATED.
4. CONDUIT: 3/4 INCH MINIMUM.

CUTTING, PATCHING AND DRILLING:
1. ALL CUTTING AND PATCHING OF THE BUILDING CONSTRUCTION REQUIRED FOR THIS WORK SHALL BE BY THIS CONTRACTOR UNLESS SHOWN ON ARCHITECTURAL DRAWINGS AND CONFIRMED AS TO SIZE AND LOCATION PRIOR TO NEW CONSTRUCTION. CUTTING SHALL BE IN A NEAT AND WORKMANLIKE MANNER.
2. DO NOT CORE DRILL OR CUT ANY CONCRETE SLABS OTHER STRUCTURAL COMPONENTS FOR ANY REASON WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF THE STRUCTURAL ENGINEER ARCHITECT OR BUILDING OWNER.
3. PATCH AND FINISH TO MATCH ADJACENT AREAS THAT HAVE BEEN CUT, DAMAGED OR MODIFIED AS A RESULT OF THE INSTALLATION OF THE MECHANICAL OR ELECTRICAL EQUIPMENT.

MOUNTING ACCESSORIES:
1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ANGEL IRON, CHANNEL IRON, RODS, SUPPORTS, HANGERS, CONCRETE OR PLYWOOD REQUIRED TO INSTALL MOUNT AND SUPPORT ANY ELECTRICAL EQUIPMENT OR DEVICE CALL FOR ON THE PLANS.
2. SUPPORTING MATERIALS SHALL BE COMPLETE WITH HANGERS, CONNECTORS, BOLTS, CLAMPS AND NECESSARY ACCESSORIES TO MAKE COMPLETE INSTALLATION. SUPPORTING MATERIAL SHALL BE GALVANIZED, PAINTED OR OTHERWISE SUITABLY FINISHED.

F. BOXES:
1. OUTLET BOXES: EXCEPT AS OTHERWISE REQUIRED BY CONSTRUCTION, DEVICES OR WIRING.
   A. STAMPED OR WELDED STEEL, 4 INCH SQUARE OR OCTAGON FOR:
      1) LIGHTING FIXTURES: 1 1/2 INCH DEEP ABOVE CEILING, 2 1/8 INCH DEEP IN WALL.
      2) IN WALL FOR RECEPTACLES AND SWITCHES: 1 1/2 INCH DEEP.
      3) IN WALL FOR TELEPHONE AND DATA: 2 1/8 INCH DEEP.
      4) WITH RAISED COVERS AND FIXTURE STUDS WHERE REQUIRED.
      5) THROUGH-THE-WALL TYPE, NOT PERMITTED.
      6) WITHOUT FIXTURE OR DEVICE: BLANK COVER.
      7) OFFSET BACK-TO-BACK OUTLETS: MINIMUM 6 INCH SEPARATION.

16. STATE OF CALIFORNIA CODES.
17. CITY OF HAVING JURISDICTION AND THEIR BUILDING DEPARTMENT

B. GALVANIZED CAST IRON OR ALUMINUM WITH THREADED HUBS: 4 INCH ROUND, 2 INCH DEEP ON CEILING, AND 4 INCH SQUARE, 2 INCH DEEP ON WALL.
C. BOXES FOR OUTDOORS AND DAMP LOCATIONS: WEATHERPROOF, CAST METAL.
D. BOXES WITHOUT FIXTURE OR DEVICE: PROVIDE WITH BLANK COVER.

2. JUNCTION AND PULL BOXES:
A. GALVANIZED SHEET STEEL.
B. COVERS: SCREW-ON, EXCEPT AS NOTED.
C. WITH INSULATED SUPPORTS FOR CABLES.
D. LOCATION: AS NOTED OR REQUIRED AND ACCESSIBLE.
E. PROVIDE BARRIERS BETWEEN:
   1) 480Y/277 VOLT WIRING ENERGIZED FROM SEPARATE SERVICES.
   2) 208Y/120 VOLT AND 480Y/277 VOLT WIRING.
   3) EMERGENCY AND NORMAL WIRING.
F. PROVIDE BARRIERS IN EXISTING BOXES BETWEEN:
   1) 208Y/120 VOLT

3. FLOOR BOXES: GALVANIZED CAST IRON WITH BRASS COVERS AND FLANGES, SUITABLE FOR CONDUIT AND DEVICES INDICATED. HARVEY DUALAVEL SERIES OR EQUAL.

G. WIRE AND CABLE:
1. CONDUCTORS:
A. ASTM STANDARD SOLID NUMBER 10 AND SMALLER, STRANDED NUMBER 8 AND LARGER.
   1) TYPE: COPPER.
   2) SIZES:
      A) GENERAL USE:
         (1) NUMBER 12 MINIMUM.
         (2) AT 120 VOLTS AND OVER 100 FEET CIRCUIT LENGTH: NUMBER 10 MINIMUM.
         (3) AT 277 VOLTS AND OVER 200 FEET CIRCUIT LENGTH: NUMBER 10 MINIMUM.
      B) CONTROL AND ALARM, EXCEPT AS NOTED:
         (1) NUMBER 14 MINIMUM.
         (2) AT 120 VOLTS AND OVER 200 FEET CIRCUIT LENGTH: NUMBER 12 MINIMUM.
      C) OTHER VOLTAGES AND PHASES: AS REQUIRED TO MAINTAIN VOLTAGE DROP.
      D) INCREASE RACEWAY SIZES FOR LARGER WIRE AS REQUIRED.

2. INSULATION:
A. THWN/THHN: FEEDERS AND BRANCH CIRCUITS EXCEPT AS NOTED.
B. ARMORED CABLE (AC) AND METAL CLAD CABLE (MC): NOT ALLOWED
C. COLOR CODING: CONDUCTORS SHALL BE COLOR CODED TO DIFFERENTIATE THE PHASES, THE SAME COLOR CODE BEING ASSIGNED TO THE SAME PHASE THROUGHOUT THE PROJECT.

3. ACCESSORIES:
A. TAGS:
   1) FLAMEPROOF LINEN OR FIBER IN ACCESSIBLE LOCATIONS.
   2) FEEDERS: INDICATE FEEDER NUMBER, SIZE, PHASE AND POINTS OF ORIGIN AND TERMINATIONS.
   3) CONTROL AND ALARM WIRING: INDICATE TYPE (CONTROL OR ALARM), SIZE OF WIRE, AND POINTS OR ORIGIN AND TERMINATIONS.

B. TERMINATIONS, SPLICES AND TAPS UNDER 600 VOLTS:
   1) COPPER CONDUCTORS NO. 10 AND SMALLER: WITH COMPRESSION-TYPE OF TWIST-ON SPRING-LOADED CONNECTORS AND CLEAR NYLON-INSULATED COVERING.
   2) COPPER CONDUCTORS NUMBER 8 AND LARGER: MECHANICAL BOLTED PRESSURE OR HYDRAULIC COMPRESSION TYPE USING MANUFACTURER'S RECOMMENDED TOOLING.
   3) CABLE LUGS AND CONNECTORS: COMPRESSION TYPE OF SAME METAL AS CONDUCTOR. PROVIDE TO MATCH CABLE, WITH MARKING INDICATING SIZE AND TYPE.
   4) COPPER LUG CONNECTIONS TO BUS BARS: USE ANTI SEIZE COMPOUND ON TANG.

C. DEVICES:
1. LOCAL WALL SWITCHES:
A. HEAVY DUTY, ROCKER QUIET TYPE.
B. 20 AMP, 120/277 VOLT, AC.
C. EQUAL TO LEVITON DECORA PLUS SERIES NUMBERS INDICATED.
   1) SINGLE POLE, NUMBER 5621-2, 1221-2.
   2) 3-WAY, NUMBER 5623-2, 1223-2.
   3) COORDINATE WITH ARCHITECT FOR FINISH COLOR.

2. DIMMER SWITCHES: SLIDER TYPE, SIZES AS INDICATED. EQUAL TO LUTRON NOVA T-STAR SERIES NUMBERS INDICATED. SEE ALSO LIGHTING CONTROLS PER PLAN AS SPECIFIED, (SEE ALSO WATTSTOPPER OR nLIGHTS CONTROLS).

A. INCANDESCENT TYPE, NT SERIES. 120V.
B. LOW VOLTAGE TYPE, NTLV AND NTELV SERIES. 120V.
C. FLUORESCENT TYPE, NTF SERIES, 120 VOLT AND 277 VOLT.
D. COORDINATE WITH ARCHITECT FOR FINISH COLOR.

3. INSERTION RECEPTACLES:
A. GROUNDED, EXCEPT AS NOTED. MEETING NEMA STANDARDS, PUBLICATION WD-1-1971.
B. EQUAL TO LEVITON DECORA PLUS SERIES NUMBERS INDICATED.
C. DUPLEX CONVENIENCE.
   1) FOR MULTI-OUTLET CIRCUITS, 125 VOLTS, 2 POLE, 3 WIRE, GROUNDED, 15 AMP, EQUAL TO NUMBER 16252.
   2) FOR SEPARATE CIRCUITS, 125 VOLTS, 2 POLE, 3 WIRE, GROUNDED, 20 AMP, EQUAL TO NUMBER 16352.
   3) GFCI TYPE, EQUAL TO 7599.
   4) COORDINATE WITH ARCHITECT FOR FINISH COLOR. (WHITE COLOR)

D. SINGLE, EXCEPT AS NOTED;
   A) 125 VOLT, 2 POLE, 3 WIRE, GROUNDED. 20 AMP, EQUAL TO NUMBER 16351
E. SPECIAL USE: NON-INTERCHANGEABLE TYPES AND RATINGS.
4. FIRE RATED POKE-THROUGHS:
   A) TYPES, SEE ELECTRICAL DRAWINGS: (OR ACHITECTURAL SPECIFICATIONS).
5. DEVICE PLATES:
   A) SEE ARCHITECT FINISH. DEFAULT: SCREWLESS FACEPLATE IN WHITE.
   B) LOW VOLTAGE DISTRIBUTION EQUIPMENT:

4. DISCONNECT SWITCHES:
A. FUSED OR NONFUSED AS NOTED.
B. VOLTAGE AS REQUIRED.
C. HEAVY DUTY, EXCEPT AS NOTED.
D. HORSEPOWER RATED FOR MOTOR LOADS.
E. TOGGLE TYPE:
   1) NON-FUSED, LOAD BREAKS.
   2) MAXIMUM RATINGS:
      A) 20 AMP AT 600 VOLTS.
      B) 30 AMP AT 250 VOLTS.
   3) 2 POLE: EQUAL TO ARROW-HART, NUMBER 6808F.
   4) 3 POLE: EQUAL TO ARROW-HART, NUMBER 7810F.
F. KNIFE-BLADE TYPE:
   1) LOAD BREAK, QUICK-MAKE-QUICK-BREAK, UL CLASS R UP TO 600 VOLT.
   2) MAXIMUM RATING EXCEPT AS NOTED: 800 AMP.
   3) ARC QUENCHERS.
   4) INDIVIDUALLY MOUNTED: EQUAL TO GENERAL ELECTRIC "TH" OR EQUAL.
   5) PANELBOARD OR SWITCHBOARD MOUNTED: EQUAL TO GENERAL ELECTRIC "QMR" OR EQUAL.

G. ENCLOSURES: DEAD FRONT, NEMA TYPE 1, EXCEPT AS NOTED.

2. FUSES:
A. MATCH EXISTING.
B. FOR MOTOR AND TRANSFORMER LOADS:
   1) CURRENT LIMITING, DUAL ELEMENT, TIME DELAY TYPE, MAXIMUM RATING: 600 AMP AT REQUIRED VOLTAGE.
   2) 200,000-AMP IC: EQUAL TO BUSSMANN FUSETRON FRN OR FRS OR LO-PEAK LPN OR LPS, (UL CLASS R).
C. FOR OTHER LOADS:
   1) CURRENT LIMITING, FAST ACTING TYPE.
   2) 200,000-AMP IC: EQUAL TO BUSSMANN LIMITRON KTN, KTS, OR KTU (UL CLASS R, UP TO 600 AMP;CLASS L, OVER 600 AMP).
D. ALL FUSES: SAME MANUFACTURER.
E. PROVIDE 1 SPARE MATCHING FUSE FOR EACH SET OF 3.

B. IN ADDITION TO COMPLYING WITH ALL OTHER LEGAL REQUIREMENTS, COMPLY WITH CURRENT PROVISIONS OF GOVERNING CODES AND REGULATIONS IN EFFECT DURING THE PROGRESS OF THE WORK, AND WITH THE FOLLOWING:
   1. DRAWINGS AND SPECIFICATION REQUIREMENTS SHALL GOVERN WHERE THEY EXCEED CODE AND REGULATION REQUIREMENTS.
   2. WHERE REQUIREMENTS BETWEEN GOVERNING CODES AND REGULATIONS VARY, THE MORE STRINGENT SHALL APPLY.
   3. NOTHING CONTAINED IN CONTRACT DOCUMENTS SHALL BE CONSTRUED AS AUTHORITY OR PERMISSION TO DISREGARD OR VIOLATE LEGAL REQUIREMENTS. THE CONTRACTOR SHALL IMMEDIATELY DRAW THE ATTENTION OF THE ARCHITECT TO ANY SUCH CONFLICTS NOTED IN THE CONTRACT DOCUMENTS.

1.06 PERMITS AND INSPECTIONS
A. THE CONTRACTOR SHALL SECURE ALL APPROVALS AND PAY ALL FEES FOR ALL WORK INSTALLED. CERTIFICATE SHALL BE DELIVERED TO OWNER BEFORE FINAL PAYMENT WILL BE MADE.

1.07 JOB CONDITIONS
A. CONNECTIONS TO EXISTING WORK:
1. INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES.
2. TEMPORARY SHUTDOWNS OF EXISTING SERVICES:

B. AT NO ADDITIONAL CHARGES.
C. AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION OF EXISTING FACILITIES.
D. ONLY WITH WRITTEN CONSENT OF OWNER.
   3. ALARM AND EMERGENCY SYSTEMS: NOT TO BE INTERRUPTED.
   4. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED WITH NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK.
   5. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION INCLUDING MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.

B. REMOVAL AND RELOCATION OF EXISTING WORK:
1. DISCONNECT, REMOVE OR RELOCATE ELECTRICAL MATERIAL, EQUIPMENT AND OTHER WORK NOTED AND REQUIRED BY REMOVAL OR CHANGES IN EXISTING CONSTRUCTION.
2. PROVIDE NEW MATERIAL AND EQUIPMENT REQUIRED FOR RELOCATED EQUIPMENT.
3. DISCONNECT LOAD AND LINE END OF CONDUCTORS FEEDING EXISTING EQUIPMENT.
4. REMOVE CONDUCTORS FROM EXISTING RACEWAYS TO BE REWIRED.
5. TAPE BOTH ENDS OF ABANDONED CONDUCTORS AND CAP OUTLETS AND ABANDONED RACEWAYS.
6. CUT AND CAP ABANDONED FLOOR RACEWAYS FLUSH WITH CONCRETE FLOOR OR BEHIND WALLS AND CEILINGS.
7. DISPOSE OF REMOVED RACEWAYS AND WIRE.
8. DISPOSE OF REMOVED ELECTRICAL EQUIPMENT AS DIRECTED.
9. IF ASBESTOS INSULATION IS FOUND WHEN WORKING IN EXISTING AREAS, IMMEDIATELY STOP WORK AND NOTIFY ARCHITECT. DO NOT RESTART WORK UNTIL ADVISED IN WRITING BY ARCHITECT THAT IT IS SAFE TO DO SO FOLLOWING ABATEMENT, ENCAPSULATIONS, ETC.

1.08 PRODUCT DELIVERY, STORAGE AND HANDLING
CHECK DIMENSIONS OF ACCESS ROUTE THROUGH THE SITE FROM DELIVERY POINT TO FINAL LOCATION. WHERE NECESSARY, SHIP IN CRATED SECTIONS OF SIZE TO PERMIT PASSING THROUGH AVAILABLE SPACE. DISMANTLE AND/OR REASSEMBLE, REPROVISION AND RETEST EQUIPMENT TOO LARGE TO PASS THROUGH AVAILABLE ACCESS ROUTE TO FINAL LOCATION IN ONE PIECE. SHIP EQUIPMENT IN ORIGINAL PACKAGES, TO PREVENT DAMAGING OR ENTRANCE OF FOREIGN MATTER. HANDLE AND SHIP IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE AND MAINTAIN PROTECTIVE COVERINGS DURING CONSTRUCTION. REPLACE AT NO EXPENSE TO OWNER, EQUIPMENT OR MATERIAL DAMAGED DURING STORAGE OR HANDLING, AS DIRECTED BY ARCHITECT.

1.09 MAINTENANCE MANUALS AND AS-BUILT DRAWINGS
A. PROVIDE FOUR (4) COPIES OF OPERATING AND MAINTENANCE MANUAL FOR OWNER'S USE FOR EACH PIECE OF EQUIPMENT. EACH ITEM SHALL BE CROSS-REFERENCED AND NUMBERED WITH AS-BUILT DRAWING DESCRIPTIONS.
B. AS-BUILT DRAWINGS: DELIVER TO OWNER, ONE ELECTRONIC ACAD SET OF ALL DRAWINGS AND PANEL SCHEDULES IN HARDCOPY AND ONE ON CD.

1.10 SEISMIC SUPPORT
A. CONTRACTOR SHALL SUPPORT AND BRACE ALL NEW ELECTRICAL SYSTEMS IN ACCORDANCE WITH SEISMIC CODE REQUIREMENTS.

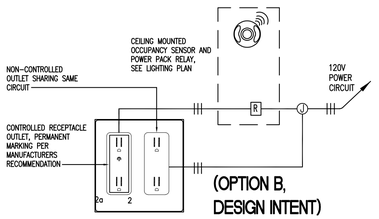
1.11 SUBSTITUTIONS:
A. REQUESTS FOR SUBSTITUTIONS SHALL BE CONSIDERED ONLY IN CASE OF PRODUCT UNAVAILABILITY. PRODUCT UNAVAILABILITY SHALL BE VERIFIED IN WRITING BY MANUFACTURER
B. SUBMIT SEPARATE REQUEST FOR EACH SUBSTITUTION AT APPROPRIATE TIME THEREAFTER IN THE EVENT OF NON-AVAILABILITY OF ITEM INCLUDED IN BID. SUPPORT EACH REQUEST WITH:
   1) COMPLETE DATA SUBSTANTIATING COMPLIANCE OF PROPOSED SUBSTITUTION WITH REQUIREMENTS STATED IN CONTRACT OCUMENTS.
   2) DATA RELATING TO CHANGES IN CONSTRUCTION SCHEDULE.
   3) ANY EFFECT OF SUBSTITUTION ON OTHER WORK IN THIS AND OTHER DIVISIONS, AND ANY OTHER RELATED CONTRACTS, AND CHANGES REQUIRED IN OTHER WORK OR PRODUCTS.
C. CONTRACTOR SHALL BE RESPONSIBLE AT NO EXTRA COST TO OWNER FOR ANY CHANGES RESULTING FROM PROPOSED SUBSTITUTIONS WHICH AFFECT WORK OF OTHER SECTIONS OR DIVISIONS, OR RELATED CONTRACTS.
D. SUBSTITUTE PRODUCTS SHALL NOT BE ORDERED OR INSTALLED WITHOUT PRIOR ACCEPTANCE BY ARCHITECT/ENGINEER.
E. ARCHITECT/ENGINEER WILL HAVE SOLE DISCRETION TO DETERMINE ACCEPTABILITY OF PROPOSED SUBSTITUTIONS AND RESERVES THE RIGHT TO REJECT ANY SUCH SUBSTITUTION.
F. APPROVAL OF SUBSTITUTIONS SHALL NOT RELIEVE CONTRACTOR FROM FULL COMPLIANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS.

2.00 PRODUCTS

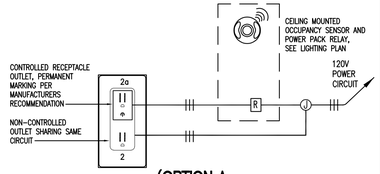
2.01 GENERAL
A. NAMEPLATES:
   1. FASTENED WITH EPOXY CEMENT, ENGRAVED WHITE LAMICOID SHEET WITH 3/4 INCH BLACK

NOTES TO CONTRACTORS:
REFER TO ALL MANUFACTURERS INSTALLATION INSTRUCTIONS FOR CORRECT WIRING, THIS DIAGRAM INDICATES FUNCTIONAL INTENT. PROVIDE ALL PARTS AND ACCESSORIES AS REQUIRED PER MANUFACTURER FOR COMPLETE INSTALLATION. LOCATE OCCUPANCY SENSORS AND DAY LIGHT SENSORS PER MANUFACTURERS RECOMMENDATIONS. NOT ALL DEVICES SHOWN IN THIS DETAIL MAY BE USED. REFER TO THE FLOOR PLANS FOR DEVICES USED AND QUANTITY NEEDED. PROVIDE MANUFACTURERS SUBMITTAL DRAWINGS FOR EXACT QUANTITY AND DEVICES NEEDED FOR COMPLETE WIRING AND FOR CONSTRUCTION. SUBMIT TO ARCHITECT AND ENGINEERS FOR PROPER REVIEW AND COMMENTS.

NOTES PER TITLE-24 REQUIREMENTS:
PROVIDE 120 VOLTS RECEPTACLES IN OFFICE, OPEN OFFICE, RECEPTION, CONFERENCE ROOM, PANTRIES, AND COPY ROOM SHALL BE CONTROLLED AND AUTOMATICALLY TURN-OFF WITH THE LIGHTS PER 2013, TITLE-24. A CONTROLLED RECEPTACLE DISTINCTLY LABELED SHALL BE LOCATED WITH IN 6 FEET OF EACH UNCONTROLLED RECEPTACLE.



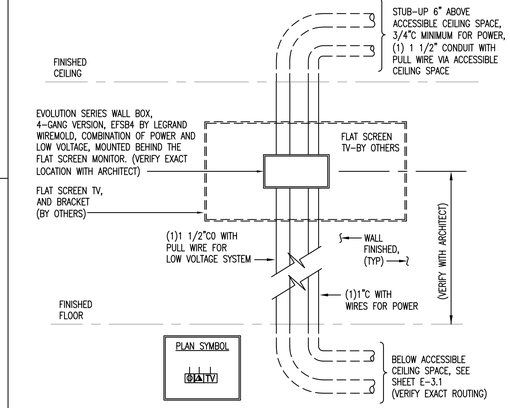
(OPTION B, DESIGN INTENT)



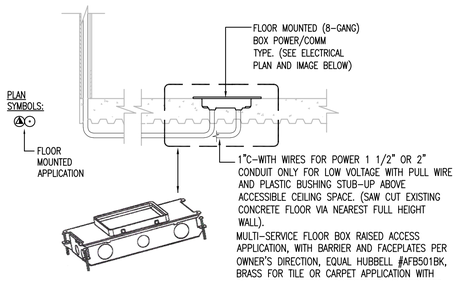
(OPTION A, DESIGN INTENT)

TYPICAL CONTROLLED AND UNCONTROLLED OUTLETS WIRING DIAGRAM

SCALE: NO SCALE | 8



NOTE TO CONTRACTOR:
THE ABOVE INFORMATION IS FOR BID AND PRICING INFORMATION ONLY, COORDINATE EXACT APPLICATION NEEDED, (PROVIDE PRICING AND LABOR AND MATERIALS NEEDED TO PROVIDE, COVER, BOXES, FLANGES, AND ETC, NEEDED AND COORDINATE PRIOR TO SUBMIT BID. ALL MISSING ITEM AND CHANGES DURING CONSTRUCTION ARE NOT ACCEPTED, FOR PRICING, WIREMOLD BY LEGRAND AND HUBBELL PRODUCT'S ARE ACCEPTABLE MANUFACTURER'S. (NO CHANGE ORDERS ARE ACCEPTABLE AFTER THE BID AND SHALL BE CLARIFIED PRIOR TO BID SUBMITTAL). PROVIDE AND INSTALL REQUIRED POKE THRU BOXES PER EXISTING ROOM CONDITION AND AS REQUIRED BY CLIENT AT NO ADDITIONAL CHARGE. VERIFY EXACT REQUIREMENTS WITH ARCHITECT AND TENANT OWNER. COORDINATION IS REQUIRED.

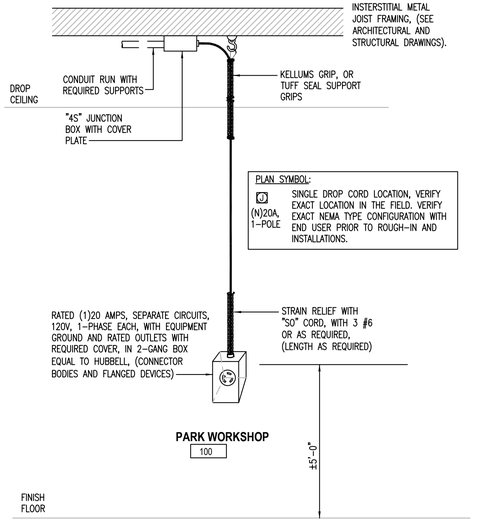


FIRE RATED POKE-THU DEVICE FOR POWER AND LV IN RATED FLOOR

SCALE: NO SCALE | 7

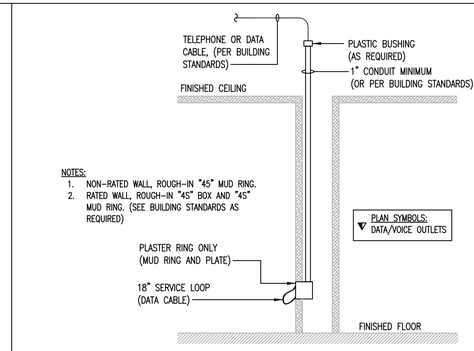
COXREELS PC10 SERIES POWER-CORD SERIES (HEAVY DUTY POWER CORD REEL WITH A SINGLE INDUSTRIAL TYPE RECEPTACLE)

OPTION #1 (CORDREELS SERIES)



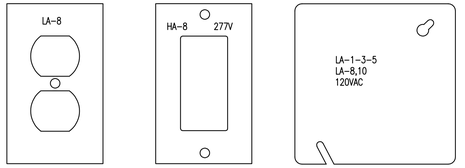
TYPICAL DROP CORD MOUNTING DETAIL

SCALE: NO SCALE | 6



TYPICAL COMMUNICATIONS CABLE RISER

SCALE: NO SCALE | 5

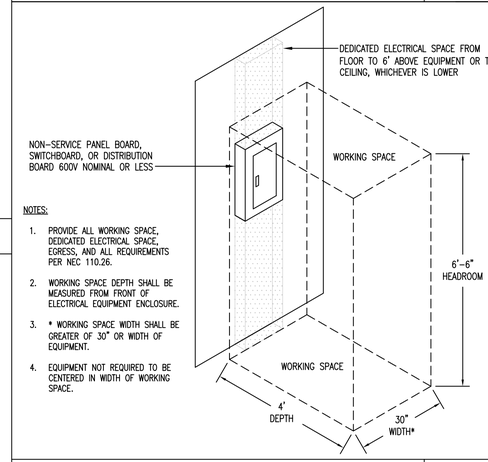


BACK OF 120V 20A RECEPTACLE COVER | BACK OF SWITCH COVER | JUNCTION BOX COVER

NOTES:
1. LABELING OF ALL DEVICES AND JUNCTION BOXES IN EXPOSED AREAS SHALL BE ON BACK OF DEVICE/BOX COVERS.
2. LABELING OF ALL DEVICES AND JUNCTION BOXES IN NON-EXPOSED AREAS SHALL BE ON FRONT OF DEVICE/BOX COVERS.
3. LABELING SHALL BE 1/4" HIGH AND LEGIBLE.
4. INDICATE CIRCUIT NUMBERS AT ALL DEVICES AND JUNCTION BOXES.
5. INDICATE VOLTAGE AT ALL SWITCHES, JUNCTION BOXES, AND SPECIAL PURPOSE RECEPTACLES.

TYPICAL CIRCUITS PANEL LABELING

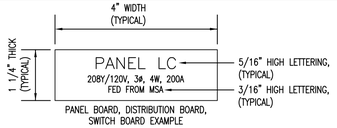
SCALE: NO SCALE | 4



NOTES:
1. PROVIDE ALL WORKING SPACE, DEDICATED ELECTRICAL SPACE, EGRESS, AND ALL REQUIREMENTS PER NEC 110.26.
2. WORKING SPACE DEPTH SHALL BE MEASURED FROM FRONT OF ELECTRICAL EQUIPMENT ENCLOSURE.
3. * WORKING SPACE WIDTH SHALL BE GREATER OF 30" OR WIDTH OF EQUIPMENT.
4. EQUIPMENT NOT REQUIRED TO BE CENTERED IN WIDTH OF WORKING SPACE.

TYPICAL ELECTRICAL EQUIPMENT CLEARANCE

SCALE: NO SCALE | 3



NOTES:
1. PROVIDE NAMEPLATES ON ALL ELECTRICAL EQUIPMENT INCLUDING PANEL BOARDS, DISTRIBUTION BREAKERS, PULL BOXES, GENERATORS, TRANSFER SWITCHES, TRANSFORMERS, DISCONNECTS, ETC.
2. INDICATE EQUIPMENT NAME, VOLTAGE, PHASE, AMPERAGE (FOR PANEL BOARDS, INDICATE RATING OF MAIN OCPD), AND FIRST UPSTREAM POWER SOURCE FEEDING UNIT.
3. NAMEPLATE SHALL BE ENGRAVED AND USE ADHESIVE ATTACHMENT.

NAMEPLATE ELECTRICAL EQUIPMENT LABELING

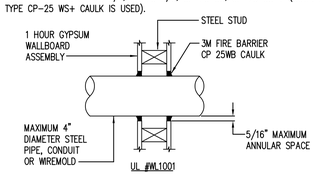
SCALE: NO SCALE | 2

NOTE:
DO NOT CUT OR DAMAGE REBARS.
SYSTEM NUMBER WL1001:
(FORMERLY SYSTEM NUMBER 147)
F RATINGS-1,2,3, AND 4 HR (SEE ITEMS 2 AND 3) T RATINGS-0,1,2,3, AND 4 HR (SEE ITEM 3) L RATING AT AMBIENT-LESS THAN 1 CFM/SQ FT (SEE ITEM 3) L RATING AT 400 F LESS THAN 1 CFM/SQ FT (SEE ITEM 3)

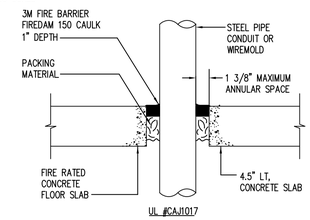
1. WALL ASSEMBLY-THE 1,2,3 OR 4 HR FIRE-RATED GYPSUM WALL BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS-WALL FRAMING MAY CONSIST OR EITHER WOOD STUDS (MAXIMUM 2 HR FIRE RATED ASSEMBLIES), OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOMINAL 2 BY 4 INCH LUMBER SPACED IN 16 INCH ON CENTER WITH NOMINAL 2 BY 4 INCH LUMBER AND PLATES AND CROSS BRACES. STEEL STUDS TO BE MINIMUM 3 5/8 INCH WIDE BY 1 3/8 INCH DEEP CHANNELS SPACED MAXIMUM 24 INCH CC.
   B. WALLBOARD, GYPSUM-NOMINAL 1/2 OR 5/8 INCH THICK, 4 FEET WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD RYPS, THICKNESS,NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAXIMUM DIAMETER OF OPENING IS 13 1/2 INCHES.
2. PIPE OR CONDUIT-NOMINAL 12 INCH DIAMETER (OR SMALLER) SCHEDULE-10 (OR HEAVIER) STEEL PIPE NOMINAL 6 INCH DIAMETER (OR SMALLER) STEEL CONDUIT, NOMINAL 4 INCH DIAMETER (OR SMALLER) STEEL ELECTRICAL METALIC TUBING OR TYPE L OR (OR HEAVIER) COPPER TUBING NOMINAL INCH
3. DIAMETER (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE OR FLEXIBLE STEEL CONDUIT IS USED , MAXIMUM OF RATING OF FIRESTOP SYSTEM (ITEM INSTRUCTED USING STEEL CHANNEL STUDS. A MAXIMUM OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
3. FILL, VOID OR CAVITY MATERIAL-CAULK-CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBAORD AND WITH A MINIMUM 1/4 INCH DIAMETER BOARD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGREES FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULETED BELOW:

MAXIMUM PIPE OR CONDUIT DIAMETER, INCH	ANULAR SPACE, INCH	F RATING HOUR	T RATING HOUR
1	0 TO 3/16	1 OR 2	0 + 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1/4	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

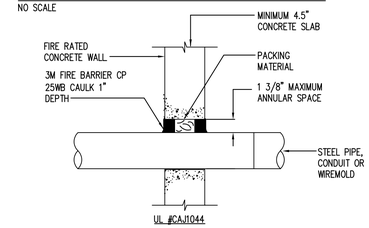
+WHEN COPPER PIPE IS USED, T RATING IS 0 NOMINAL MINNESSOTA MINING & MANUFACTURING COMPANY- TYPES CP-25 S/L, CP-25 N/8, CP-25 WS, CP-25 WS + (NOTE: L RATINGS APPLY WHEN TYPE CP-25 WS+ CAULK IS USED).



PENETRATION THRU GYPSUM BOARD WALL
NO SCALE



PENETRATION THRU CONCRETE FLOOR
NO SCALE



PENETRATION THRU CONCRETE WALL
NO SCALE

TYPICAL FLOOR AND RATED WALL PENETRATION

SCALE: NO SCALE | 1

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60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

DETAILS

SCALE: NO SCALE

2/18/2026

E003

DATE
2.18.2026

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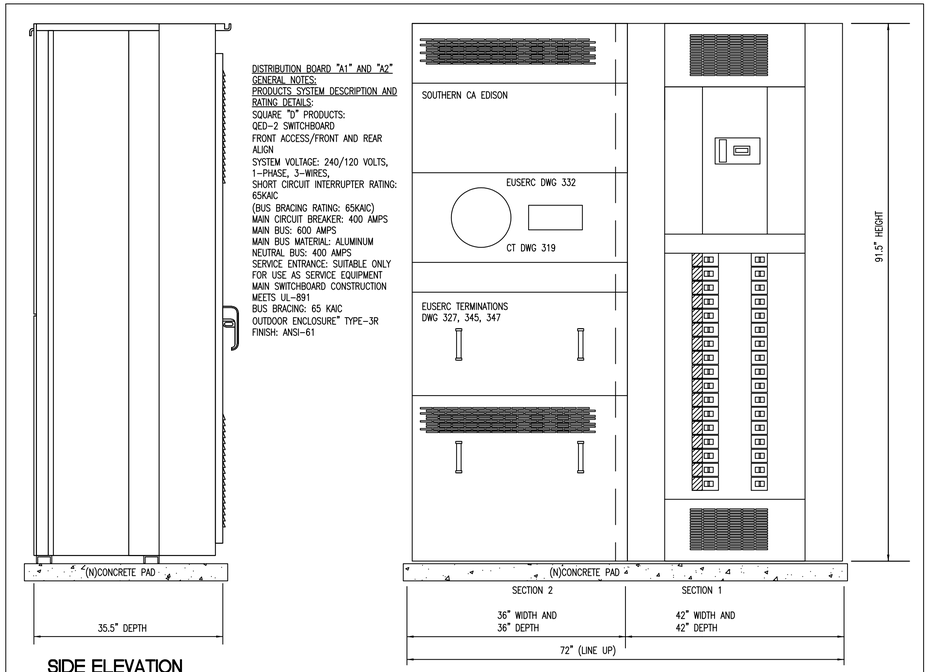
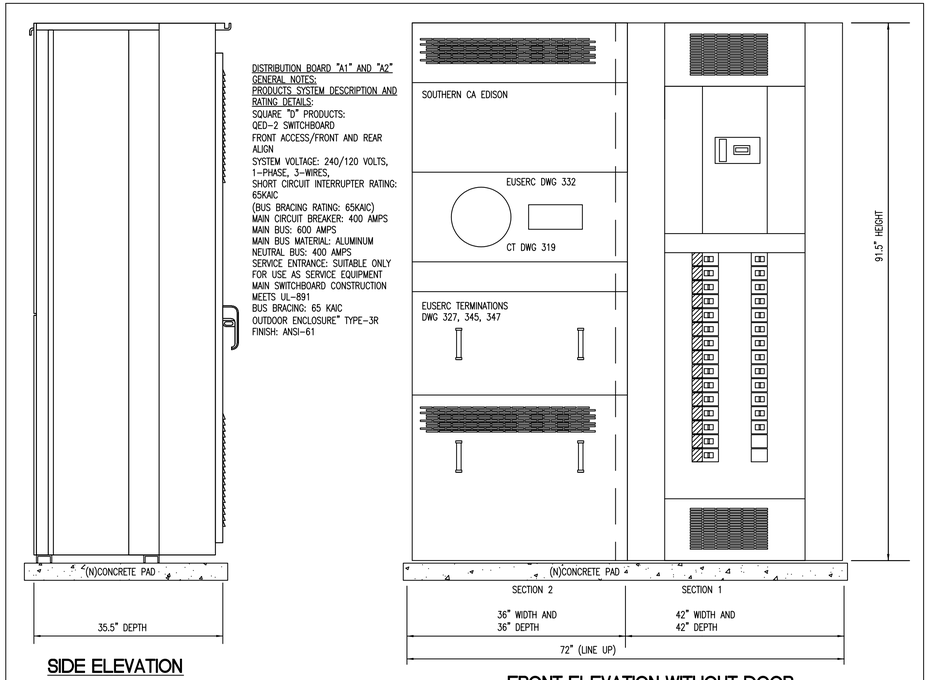


SIDE ELEVATION

FRONT ELEVATION WITHOUT DOOR

MAIN DIST BOARD "A1", AND "A2" ELEVATION-NEMA 3R ENCLOSURE | SCALE: NONE | E



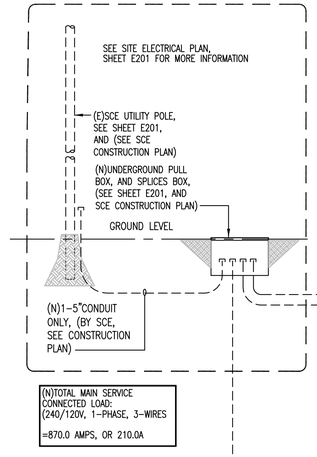
SIDE ELEVATION

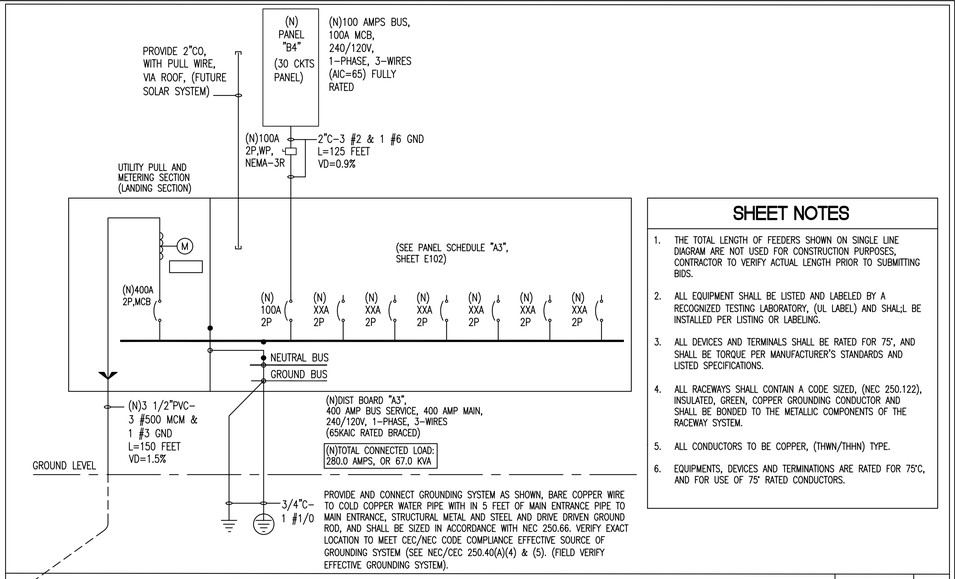
FRONT ELEVATION WITHOUT DOOR

MAIN DIST BOARD "A3" ELEVATION-NEMA 3R ENCLOSURE | SCALE: NONE | D

GENERAL NOTES

- FOR RISER BENDS, THE MINIMUM RADIUS PERMITTED WILL BE 24 INCHES, FOR HORIZONTAL BENDS, A MINIMUM RADIUS OF 36", AND FACTORY 90 DEGREES ELBOW AS REQUIRED.
- A PULL ROPE OR PULL TAPE WILL BE INSTALLED IN EACH EMPTY CONDUIT.
- FOUR FOOT CLEARANCE TO BE MAINTAINED FROM TOP OF SLOPE. OF COMMERCIAL DRIVEWAY, AND TWO FOOT CLEARANCE FROM RESIDENTIAL DRIVEWAY.
- ALL ELECTRICAL WORKS SHALL BE IN ACCORDANCE WITH THE LATEST NEC. OR CEC SCOPE, OR LOCAL JURISDICTION CODE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION.
- ALL EQUIPMENT SHALL BE PROPERLY GROUNDED PER CEC/NEC ARTICLE 250. UNDERGROUND PULL BOX.
- CONTACT SCE (SOUTHERN CALIFORNIA EDISON), PLANNING OFFICE PRIOR TO STARTING CONSTRUCTION.
- AVAILABLE FAULT CURRENT BASED ON THE SHORT CIRCUIT CURRENT VALUE, (42,000 AMPS), UNTIL FINAL SCE AIC CONTRIBUTION PROVIDED.
- CONTRACTOR SHALL INSTALL UNDERGROUND CONDUITS, FROM NEW UNDERGROUND CONDUIT LOCATION, (SEE SHEET E201), UNDERGROUND CONDUITS SHALL HAVE A 30" MINIMUM COVER AND BEDING RADIUS NOT LESS THAN 12.5 FEET, UNLESS SPECIFIED OTHERWISE BY SCE.
- CONTRACTOR SHALL FURNISH UNDERGROUND PULL BOX, (SPLICE BOX, AND UNDERGROUND PULL BOX, AS STATED IN SHEET E201. ALL DISTANCE SHALL BE VERIFIED BY CONTRACTOR).
- PROVIDE 12" MINIMUM DISTANCE FROM EXISTING SCE UTILITY POLE.
- SEALING, PROVIDE AND USEW SEALING COMPOUND AND PLUGS TO WITHSTAND AT LEAST 15-PSIG HYDROSTATIC PRESSURE.
- UNDERGROUND PULL BOX, SPLICE BOX, SHALL BE MANUFACTURED USING POLYMER CONCRETE MATERIAL, BOXES AND COVERS SHALL BE "CONCRETE GRAY", IN COLOR.
- POLYMER CONCRETE MATERIAL SHALL BE TESTED BY ASTM, TO MEET LA COUNTY REQUIREMENTS. (UL LISTED PRODUCTRS).

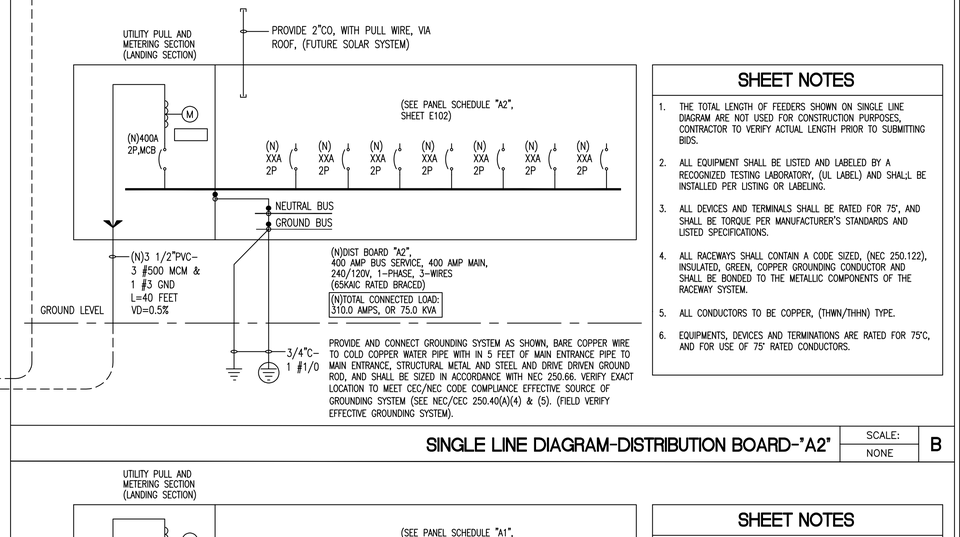




SHEET NOTES

1. THE TOTAL LENGTH OF FEEDERS SHOWN ON SINGLE LINE DIAGRAM ARE NOT USED FOR CONSTRUCTION PURPOSES, CONTRACTOR TO VERIFY ACTUAL LENGTH PRIOR TO SUBMITTING BIDS.
2. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A RECOGNIZED TESTING LABORATORY, (UL LABEL) AND SHALL BE INSTALLED PER LISTING OR LABELING.
3. ALL DEVICES AND TERMINALS SHALL BE RATED FOR 75', AND SHALL BE TORQUE PER MANUFACTURER'S STANDARDS AND LISTED SPECIFICATIONS.
4. ALL RACEWAYS SHALL CONTAIN A CODE SIZED, (NEC 250.122), INSULATED, GREEN, COPPER GROUNDING CONDUCTOR AND SHALL BE BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM.
5. ALL CONDUCTORS TO BE COPPER, (THWN/THHN) TYPE.
6. EQUIPMENTS, DEVICES AND TERMINATIONS ARE RATED FOR 75'C, AND FOR USE OF 75' RATED CONDUCTORS.

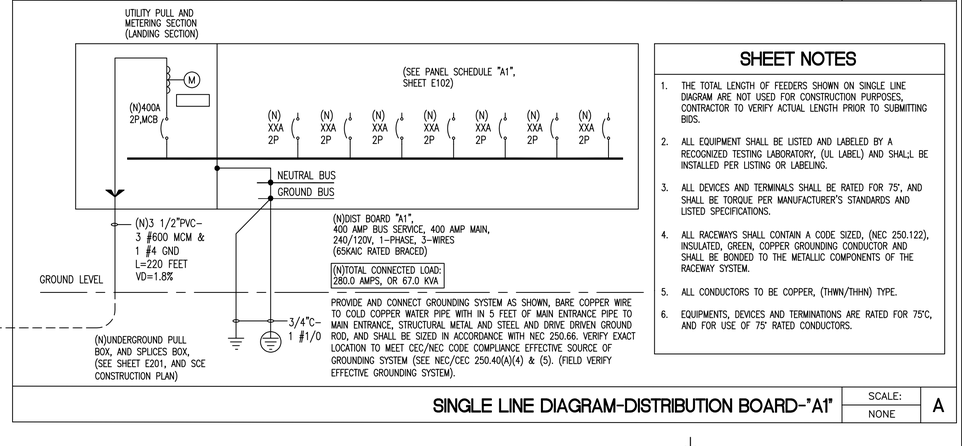
SINGLE LINE DIAGRAM-DISTRIBUTION BOARD-"A3" | SCALE: NONE | C



SHEET NOTES

1. THE TOTAL LENGTH OF FEEDERS SHOWN ON SINGLE LINE DIAGRAM ARE NOT USED FOR CONSTRUCTION PURPOSES, CONTRACTOR TO VERIFY ACTUAL LENGTH PRIOR TO SUBMITTING BIDS.
2. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A RECOGNIZED TESTING LABORATORY, (UL LABEL) AND SHALL BE INSTALLED PER LISTING OR LABELING.
3. ALL DEVICES AND TERMINALS SHALL BE RATED FOR 75', AND SHALL BE TORQUE PER MANUFACTURER'S STANDARDS AND LISTED SPECIFICATIONS.
4. ALL RACEWAYS SHALL CONTAIN A CODE SIZED, (NEC 250.122), INSULATED, GREEN, COPPER GROUNDING CONDUCTOR AND SHALL BE BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM.
5. ALL CONDUCTORS TO BE COPPER, (THWN/THHN) TYPE.
6. EQUIPMENTS, DEVICES AND TERMINATIONS ARE RATED FOR 75'C, AND FOR USE OF 75' RATED CONDUCTORS.

SINGLE LINE DIAGRAM-DISTRIBUTION BOARD-"A2" | SCALE: NONE | B



SHEET NOTES

1. THE TOTAL LENGTH OF FEEDERS SHOWN ON SINGLE LINE DIAGRAM ARE NOT USED FOR CONSTRUCTION PURPOSES, CONTRACTOR TO VERIFY ACTUAL LENGTH PRIOR TO SUBMITTING BIDS.
2. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A RECOGNIZED TESTING LABORATORY, (UL LABEL) AND SHALL BE INSTALLED PER LISTING OR LABELING.
3. ALL DEVICES AND TERMINALS SHALL BE RATED FOR 75', AND SHALL BE TORQUE PER MANUFACTURER'S STANDARDS AND LISTED SPECIFICATIONS.
4. ALL RACEWAYS SHALL CONTAIN A CODE SIZED, (NEC 250.122), INSULATED, GREEN, COPPER GROUNDING CONDUCTOR AND SHALL BE BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM.
5. ALL CONDUCTORS TO BE COPPER, (THWN/THHN) TYPE.
6. EQUIPMENTS, DEVICES AND TERMINATIONS ARE RATED FOR 75'C, AND FOR USE OF 75' RATED CONDUCTORS.

SINGLE LINE DIAGRAM-DISTRIBUTION BOARD-"A1" | SCALE: NONE | A

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75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

SINGLE LINE DIAGRAM AND ELEVATION

SCALE: NO SCALE

2/18/2026

E101

DATE
2.18.2026

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DATE:	11-19-25	**PANEL VOLTAGE:**	240/120V
JOB:	VINCENT PARK MAINTENACE FACITITY	**PHASE & WIRE:**	1 PH, 3W
PANEL:	(N)DISTRIBUTION BOARD "A2"	**BUS:**	400A
AIC RATING:	65KAIC	**MAINS:**	400A

CKT CODE: 1=(CONTINUOUS) 2=(NON-CONTINUOUS) 3=(RECEPTACLES) 4=(KITCHEN) NO. OF EQUIP=

CIRCUIT NO	CODE	CKT BKR TRIP	POLE	LOAD TYPE & DESIGNATION DESCRIPTION	MISC	REC	LITE	LOAD VA	PHASES A	B	C	LOAD VA	LITE	REC	MISC	LOAD TYPE & DESCRIPTION	CKT BKR POLE	TRIP	CIRCUIT CODE	NO
1	2	15	1	ROOF EF/7	1			528	1428	----	----	900		1		RM 205 SC-1 OUTLET	1	20	2	2
3	2	15	1	UNISEX 1&2 SF/1	2			60	----	----	960	900		1		RM 205 SC-2 OUTLET	1	20	2	4
5	2	70	2	HVAC HP/3	1			3600	4500	----	----	900		1		RM 205 SC-3 OUTLET	1	20	2	6
7	2	-	-	WITH CIRCUIT-5	-			3600	----	----	4320	720		4		RM 205 OUTLETS	1	20	3	8
9	2	15	2	HVAC FC/3	1			406	1126	----	----	720		4		RMS 205,204,203 OUTLETS	1	20	3	10
11	2	-	-	WITH CIRCUIT-9	-			406	----	----	1126	720		4		RMS 203,202 OUTLETS	1	20	3	12
13	2	15	2	HVAC FC/4	1			406	406	----	----					SPARE	1	20		14
15	2	-	-	WITH CIRCUIT-13	-			406	----	----	4206	3800			1	PARKING EV1 CHARGING	2	40	1	16
17	1	20	2	SITE LIGHTING	1		8	550	4350	----	----	3800			-	WITH CIRCUIT-16	-	-	1	18
19	1	-	-	WITH CIRCUIT-17	-		8	550	----	----	4350	3800			1	PARKING EV2 CHARGING	2	40	1	20
21	1	20	1	SITE LIGHTING			X	750	4550	----	----	3800			-	WITH CIRCUIT-20	-	-	1	22
23	1	20	1	INDOOR LIGHTING	X		16	975	----	----	4775	3800			1	PARKING EV3 CHARGING	2	40	1	24
25	3	20	1	RMS 205,202 OUTLETS		4		720	4520	----	----	3800			-	WITH CIRCUIT-24	-	-	1	26
27	3	20	1	RMS 201,202 OUTLETYS		4		720	----	----	4520	3800			1	PARKING EV4 CHARGING	2	40	1	28
29	3	20	1	RMS 208,HALL OUTLETS		4		720	4520	----	----	3800			-	WITH CIRCUIT-28	-	-	1	30
31	3	20	1	RM 209 OUTLETS		4		720	----	----	720					SPARE	1	20		32
33	2	20	1	OPEN OFFICE OUTLETSD		4		720	720	----	----					SPARE	1	20		34
35	3	20	1	OPEN OFFICE FLR OUTLETS		3		540	----	----	540					SPARE	1	20		36
37	3	20	1	OPEN OFFICE OUTLETS		4		720	720	----	----					SPARE	1	20		38
39	2	20	1	OPEN OFFICE FLR OUTLETS		2		400	----	----	400					SPARE	1	20		40
41	2	20	1	ROOF OUTLST		1		200	200	----	----					SPARE	1	20		42
	NOTES:						TOTAL	27040	0	25917									SUM	

CONNECTED KVA	53.0		
CONN.KVA (CODE 1)	33.2		
CONN.KVA (CODE 2)	13.4		
CONN.KVA (CODE 3)	6.3		
CONN.KVA (CODE 4)	0.0		
	0.0		
SPARE (DECIMAL)		SPARE KVA	
FEEDER DEMAND KVA	61.3		
FEEDER DEMAND AMPS	255.3		
X'FMR. KVA	61.3		

BY:
ISSUE DATE:
PANEL:

DATE:	11-19-25	**PANEL VOLTAGE:**	240/120V
JOB:	VINCENT PARK MAINTENACE FACITITY	**PHASE & WIRE:**	1 PH, 3W
PANEL:	(N)DISTRIBUTION BOARD "A1"	**BUS:**	400A
AIC RATING:	65KAIC	**MAINS:**	400A

CKT CODE: 1=(CONTINUOUS) 2=(NON-CONTINUOUS) 3=(RECEPTACLES) 4=(KITCHEN) NO. OF EQUIP=

CIRCUIT NO	CODE	CKT BKR TRIP	POLE	LOAD TYPE & DESIGNATION DESCRIPTION	MISC	REC	LITE	LOAD VA	PHASES A	B	C	LOAD VA	LITE	REC	MISC	LOAD TYPE & DESCRIPTION	CKT BKR POLE	TRIP	CIRCUIT CODE	NO
1	2	15	2	WORKSHOP ROLL-UP-DOOR	1			528	2728	----	----	2200			1	RM 501 L6-30R (CHARGING)	2	30	2	2
3	2	-	-	WITH CIRCUIT-1	-			528	----	----	2728	2200			-	WITH CIRCUIT-2	-	-	2	4
5	2	15	2	GRAFITTI ROLL-UP-DOOR	1			528	2728	----	----	2200			1	RM 501 L6-30R (CHARGING)	2	30	2	6
7	2	-	-	WITH CIRCUIT-3	-			528	----	----	2728	2200			-	WITH CIRCUIT-6	-	-	2	8
9	2	15	2	DUST COLLECTOR	1			900	3100	----	----	2200			1	RM 501 L6-30R (CHARGING)	2	30	2	10
11	2	-	-	WITH CIRCUIT-7	-			900	----	----	3100	2200			-	WITH CIRCUIT-10	-	-	2	12
13	2	15	2	WORKSHOP CLG FAN (1&2)	1			1020	3220	----	----	2200			1	RM 501 L6-30R (CHARGING)	2	30	2	14
15	2	-	-	WITH CIRCUIT-13	-			1020	----	----	3220	2200			-	WITH CIRCUIT-14	-	-	2	16
17	2	15	1	EF/5 (ROOF)	1			864	3064	----	----	2200			1	RM 501 L6-30R (CHARGING)	2	30	2	18
19	2	15	1	EF/6 (ROOF)	1			864	----	----	3064	2200			-	WITH CIRCUIT-18	-	-	2	20
21	2	15	1	EF/2 (ROOF)	1			696	2896	----	----	2200			1	RM 501 L6-30R (CHARGING)	2	30	2	22
23	2	15	1	EF/3 (ROOF	1			420	----	----	2620	2200			-	WITH CIRCUIT-22	-	-	2	24
25	2	15	1	EF/4 (ROOF)	1			420	1620	----	----	1200		1		RM 502 SC-1 OUTLET	1	20	2	26
27	2	20	1	CEILING MOUNTED OUTLET		1		900	----	----	2100	1200		1		RM 502 SC-2 OUTLET	1	20	2	28
29	2	20	1	CEILING MOUNTED OUTLET		1		900	2100	----	----	1200		1		RM 502 SC-3 OUTLET	1	20	2	30
31	2	20	1	CEILING MOUNTED OUTLET		1		900	----	----	2100	1200		1		RM 502 SC-4 OUTLET	1	20	2	32
33	2	20	1	CEILING MOUNTED OUTLET		1		900	1500	----	----	600		3		RMS 111,110 (XP OUTLETS	1	20	2	34
35	2	20	1	DRINKING FOUNTAIN		1		700	----	----	1300	600		3		RMS 110,109 (SP OUTLETS)	1	20	2	36
37	3	20	1	GRAFITTI OUTLETS		4		720	1420	----	----	700			1	RM 100 (240V OUTLETS)	2	20	2	38
39	2	15	2	GRAFITTI ROLL-UP-DOOR	1			528	----	----	1228	700			-	WITH CIRCUIT-38	-	-	2	40
41	2	-	-	WITH CIRCUIT-39	-			528	528	----	----					SPARE	1	20		42
	NOTES:						TOTAL	24904	0	24188									SUM	

CONNECTED KVA	49.1		
CONN.KVA (CODE 1)	0.0		
CONN.KVA (CODE 2)	48.4		
CONN.KVA (CODE 3)	0.7		
CONN.KVA (CODE 4)	0.0		
	0.0		
SPARE (DECIMAL)		SPARE KVA	
FEEDER DEMAND KVA	49.1		
FEEDER DEMAND AMPS	204.6		
X'FMR. KVA	49.1		

BY:
ISSUE DATE:
PANEL:

DATE:	11-19-25	**PANEL VOLTAGE:**	240/120V
JOB:	VINCENT PARK MAINTENACE FACITITY	**PHASE & WIRE:**	1 PH, 3W
PANEL:	(N)DISTRIBUTION HBOARD "A2"	**BUS:**	400A
AIC RATING:	65KAIC	**MAINS:**	400A

CKT CODE: 1=(CONTINUOUS) 2=(NON-CONTINUOUS) 3=(RECEPTACLES) 4=(KITCHEN) NO. OF EQUIP=

CIRCUIT NO	CODE	CKT BKR TRIP	POLE	LOAD TYPE & DESIGNATION DESCRIPTION	MISC	REC	LITE	LOAD VA	PHASES A	B	C	LOAD VA	LITE	REC	MISC	LOAD TYPE & DESCRIPTION	CKT BKR POLE	TRIP	CIRCUIT CODE	NO
43	2	70	2	HVAC HP/4	1			3600	5100	----	----	1500			1	BUILDING 2 (EWH/2.1)	1	20	1	44
45	2	-	-	WITH CIRCUIT-17	-			3600	----	----	5100	1500			1	BUILDING 2 (EWH/2.2)	1	20	1	46
47		20	1	SPARE					1500	----	----	1500			1	BUILDING 2 (EWH/2.3)	1	20	1	48
49		20	1	SPARE					----	----	0					SPARE	1	20		50
51		20	1	SPARE					0	----	----					SPARE	1	20		52
53		20	1	SPARE					----	----	0					SPARE	1	20		54
55		20	1	SPARE					0	----	----					SPARE	1	20		56
57		20	1	SPARE					----	----	0					SPARE	1	20		58
59		20	1	SPARE					0	----	----					SPARE	1	20		60
61									----	----	0									62
63									0	----	----									64
65									----	----	0									66
67									0	----	----									68
69									----	----	0									70
71									0	----	----									72
73									----	----	0									74
75									0	----	----									76
77									----	----	0									78
79									0	----	----									80
81									----	----	0									82
83									0	----	----									84
	NOTES:						TOTAL	6600	0	5100									SUM	

CONNECTED KVA	12.8		
CONN.KVA (CODE 1)	4.5		
CONN.KVA (CODE 2)	7.2		
CONN.KVA (CODE 3)	0.0		
CONN.KVA (CODE 4)	0.0		
	0.0		
SPARE (DECIMAL)		SPARE KVA	
FEEDER DEMAND KVA	12.8		
FEEDER DEMAND AMPS	53.4		
X'FMR. KVA	12.8		

BY:
ISSUE DATE:
PANEL:

DATE:	11-19-25	**PANEL VOLTAGE:**	240/120V
JOB:	VINCENT PARK MAINTENACE FACITITY	**PHASE & WIRE:**	1 PH, 3W
PANEL:	(N)DISTRIBUTION HBOARD "A1"	**BUS:**	400A
AIC RATING:	65KAIC	**MAINS:**	400A

CKT CODE: 1=(CONTINUOUS) 2=(NON-CONTINUOUS) 3=(RECEPTACLES) 4=(KITCHEN) NO. OF EQUIP=

CIRCUIT NO	CODE	CKT BKR TRIP	POLE	LOAD TYPE & DESIGNATION DESCRIPTION	MISC	REC	LITE	LOAD VA	PHASES A	B	C	LOAD VA	LITE	REC	MISC	LOAD TYPE & DESCRIPTION	CKT BKR POLE	TRIP	CIRCUIT CODE	NO
43	3	20	1	RMS 103,104 OUTLETS		4		720	2970	----	----	2250			1	BUILDING 1 (EWH/1.1 4.5KW)	2	25	2	44
45	3	20	1	RMS 104,106 OUTLETS		4		720	----	----	2970	2250			-	WITH CIRCUIT-2	-	-	2	46
47	3	20	1	RMS 105,106 OUTLETS		3		540	2040	----	----	1500			1	BUILDING 1 (EWH/1.2 1.5KW)	1	20	1	48
49	3	20	1	RMS 108,107 OUTLETS		3		540	----	----	540					SPARE	1	20		50
51	2	20	2	BUILDING 1 (EXIST GATE MTR)	1			750	1260	----	----	510			1	WORKSHOP CLG FAN 3	2	20	2	52
53	2	-	-	WITH CIRCUIT-51	-			750	----	----	1260	510			-	WITH CIRCUIT-52	-	-	2	54
55	2	20	2	BUILDING 1 (NEW GATE MTR)	1			750	1150	----	----	400		2		ROOF OUTLETS	1	20	3	56
57	2	-	-	WITH CIRCUIT-55	-			750	----	----	1878	1128	12			BUILDING 1 LIGHTING	1	20	1	58
59	2	15	1	BLDG 1, (RR-1 & RR-2 EF'S)	2			60	1200	----	----	1140	29			BUILDING 1 LIGHTING	1	20	1	60
61		20	1	SPARE					----	----	0					SPARE	1	20		62
63		20	1	SPARE					0	----	----					SPARE	1	20		64
65		20	1	SPARE					----	----	0					SPARE	1	20		66
67		20	1	SPARE					0	----	----					SPARE	1	20		68
69		20	1	SPARE					----	----	0					SPARE	1	20		70
71		20	1	SPARE					0	----	----					SPARE	1	20		72
73									----	----	0									74
75									0	----	----									76
77									----	----	0									78
79									0	----	----									80
81									----	----	0									82
83									0	----	----									84
	NOTES:						TOTAL	8620	0	6648									SUM	

CONNECTED KVA	16.2		
CONN.KVA (CODE 1)	3.8		
CONN.KVA (CODE 2)	8.6		
CONN.KVA (CODE 3)	2.9		
CONN.KVA (CODE 4)	0.0		
	0.0		
SPARE (DECIMAL)		SPARE KVA	
FEEDER DEMAND KVA	16.2		
FEEDER DEMAND AMPS	67.5		
X'FMR. KVA	16.2		

BY:
ISSUE DATE:
PANEL:

VINCENT PARK MAINTENANCE FACILITY

VPF 230309

700 Warren Lane
Inglewood, CA, 90302

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EXP. 06/30/26
ELECTRICAL
STATE OF CALIFORNIA

BAR SCALE

SHEET REVISION	DATE
ISSUE FOR BID	02.12.2026
90% PROGRESS DESIGN	11.21.2025
75% PROGRESS DESIGN	11.11.2025
50% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025
ISSUE	DATE

PANEL SCHEDULES

SCALE: NO SCALE

2/18/2026

E102

DATE
2.18.2026

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DATE: 11-19-25
PANEL VOLTAGE: 240/120V
CKT CODE: 1=(CONTINUOUS)
JOB: VINCENT PARK MAINTENACE FACITITY
PHASE & WIRE: 1 PH, 3W
2=(NON-CONTINUOUS)
PANEL: (N)DISTRIBUTION BOARD "A3"
BUS: 400A
3=(RECEPTACLES)
AIC RATING: 65KAIC
MAINS: 400A
4=(KITCHEN)
NO. OF EQUIP=

CIRCUIT		CKT BKR		LOAD TYPE & DESIGNATION				LOAD	PHASES			LOAD	LOAD TYPE & DESIGNATION				CKT BKR		CIRCUIT	
NO	CODE	TRIP	POLE	DESCRIPTION	MISC	REC	LITE	VA	A	B	C	VA	LITE	REC	MISC	DESCRIPTION	POLE	TRIP	CODE	NO
43	2	20	2	BUILDING 2 (MOTORIZE GATE MT	1			750	750	----	----					SPARE	1	20		44
45	2	-	-	WITH CIRCUIT-51	-			750	----	----	750					SPARE	1	20		46
47		20	1	SPARE					0	----	----					SPARE	1	20		48
49		20	1	SPARE					----	----	0					SPARE	1	20		50
51		20	1	SPARE					0	----	----					SPARE	1	20		52
53		20	1	SPARE					----	----	0					SPARE	1	20		54
55									0	----	----									56
57									----	----	0									58
59									0	----	----									60
61									----	----	0									62
63									0	----	----									64
65									----	----	0									66
67									0	----	----									68
69									----	----	0									70
71									0	----	----									72
73									----	----	0									74
75									0	----	----									76
77									----	----	0									78
79									0	----	----									80
81									----	----	0									82
83									0	----	----									84
	NOTES:							TOTAL	750	0	750	CONNECTED KVA				1.5			SUM	

CONN.KVA (CODE 1) 0.0
CONN.KVA (CODE 2) 1.5
CONN.KVA (CODE 3) 0.0
CONN.KVA (CODE 4) 0.0
0.0
SPARE (DECIMAL) SPARE KVA

BY:
ISSUE DATE:
PANEL:

FEEDER DEMAND KVA 1.5
FEEDER DEMAND AMPS 6.3
X'FMR. KVA 1.5

DATE: 11-19-25
PANEL VOLTAGE: 240/120V
CKT CODE: 1=(CONTINUOUS)
JOB: VINCENT PARK MAINTENACE FACITITY
PHASE & WIRE: 1 PH, 3W
2=(NON-CONTINUOUS)
PANEL: (N)PANEL BOARD "B4"
BUS: 100A
3=(RECEPTACLES)
AIC RATING: 65KAIC
MAINS: 100A
4=(KITCHEN)
NO. OF EQUIP=

CIRCUIT		CKT BKR		LOAD TYPE & DESIGNATION				LOAD	PHASES			LOAD	LOAD TYPE & DESIGNATION				CKT BKR		CIRCUIT	
NO	CODE	TRIP	POLE	DESCRIPTION	MISC	REC	LITE	VA	A	B	C	VA	LITE	REC	MISC	DESCRIPTION	POLE	TRIP	CODE	NO
1		20	1	SPARE					900	----	----	900		5		STORAGE OUTLETS	1	20	3	2
3		20	1	SPARE					----	----	900	900		5		STORAGE OUTLETS	1	20	3	4
5		20	1	SPARE					528	----	----	528				STORAGE (ROLL-UP-DOOR)	2	15	2	6
7		20	1	SPARE					----	----	528	528				WITH CIRCUIT-6	-	-	2	8
9		20	1	SPARE					1176	----	----	1176			1	ROOF EF/9	1	20	2	10
11		20	1	SPARE					----	----	200	200		1		ROOF OUTLET	1	20	3	12
13		20	1	SPARE					0	----	----					SPARE	1	20		14
15		20	1	SPARE					----	----	0					SPARE	1	20		16
17		20	1	SPARE					0	----	----					SPARE	1	20		18
19		20	1	SPARE					----	----	0					SPARE	1	20		20
21		20	1	SPARE					0	----	----					SPARE	1	20		22
23		20	1	SPARE					----	----	0					SPARE	1	20		24
25									0	----	----									26
27									----	----	0									28
29									0	----	----									30
31									----	----	0									32
33									0	----	----									34
35									----	----	0									36
37									0	----	----									38
39									----	----	0									40
41									0	----	----									42
	NOTES:							TOTAL	2604	0	1628	CONNECTED KVA				4.2			SUM	

CONN.KVA (CODE 1) 0.0
CONN.KVA (CODE 2) 2.2
CONN.KVA (CODE 3) 2.0
CONN.KVA (CODE 4) 0.0
0.0
SPARE (DECIMAL) SPARE KVA

BY:
ISSUE DATE:
PANEL:

FEEDER DEMAND KVA 4.2
FEEDER DEMAND AMPS 17.6
X'FMR. KVA 4.2

DATE: 11-19-25
PANEL VOLTAGE: 240/120V
CKT CODE: 1=(CONTINUOUS)
JOB: VINCENT PARK MAINTENACE FACITITY
PHASE & WIRE: 1 PH, 3W
2=(NON-CONTINUOUS)
PANEL: (N)DISTRIBUTION BOARD "A3"
BUS: 400A
3=(RECEPTACLES)
AIC RATING: 65KAIC
MAINS: 400A
4=(KITCHEN)
NO. OF EQUIP=

CIRCUIT		CKT BKR		LOAD TYPE & DESIGNATION				LOAD	PHASES			LOAD	LOAD TYPE & DESIGNATION				CKT BKR		CIRCUIT	
NO	CODE	TRIP	POLE	DESCRIPTION	MISC	REC	LITE	VA	A	B	C	VA	LITE	REC	MISC	DESCRIPTION	POLE	TRIP	CODE	NO
1	2	15	1	UNISEX 1&2 EF/1	2			60	960	----	----	900		1		BREAK ROOM SC-1 OUTLET	1	20	2	2
3	2	15	1	ROOF EF/8	1			528	----	----	1428	900		1		BREAK ROOM SC-2 OUTLET	1	20	2	4
5	2	70	2	HVAC HP/1	1			3600	4500	----	----	900		1		BREAK ROOM SC-3 OUTLET	1	20	2	6
7	2	-	-	WITH CIRCUIT-5	-			3600	----	----	4320	720		4		BREAK RM OUTLETS	1	20	3	8
9	2	15	2	HVAC FC/1	1			406	1306	----	----	900		5		RMS 204,203 OYUTLETS	1	20	3	10
11	2	-	-	WITH CIRCUIT-9	-			406	----	----	1126	720		4		RMS 208,206 OUTLETS	1	20	3	12
13	2	15	2	HVAC FC/2	1			406	1126	----	----	720		4		RMS 209,HALL OUTLETS	1	20	3	14
15	2	-	-	WITH CIRCUIT-13	-			406	----	----	1006	600		3		RM 209 OUTLETS	1	20	2	16
17	2	70	2	HVAC HP/2	1			3600	4320	----	----	720		4		RM 201 OUTLETS	1	20	3	18
19	2	-	-	WITH CIRCUIT-17	-			3600	----	----	4320	720		4		RM 202 OUITLETS	1	20	3	20
21	1	40	2	PARKING EV5 CHARGING	1			3800	4300	----	----	500		2		OPEN OFFICE FLR OUTLETS	1	20	2	22
23	1	-	-	WITH CIRCUIT-21	-			3800	----	----	4340	540		3		OPEN OFFICE OUTLETS	1	20	3	24
25	1	40	2	PARKING EV6 CHARGING	1			3800	4400	----	----	600		3		OPEN OFFICE FLR OUTLETS	1	20	2	26
27	1	-	-	WITH CIRCUIT-25	-			3800	----	----	4520	720		4		OPEN OFFICE OUTLETS	1	20	3	28
29	1	20	1	BUILDING 3 (EWH/3.1)	1			1500	5300	----	----	3800			1	PARKING EV7 CHARGING	2	40	2	30
31	1	20	1	BUILDING 3 (EWH/3.2)	1			1500	----	----	5300	3800			-	WITH CIRCUIT-30	-	-	2	32
33	1	20	1	BUILDING 3 (EWH/3.3)	1			1500	1500	----	----					SPARE	2	40		34
35	2	20	1	ROOF OUTLET		1		200	----	----	200					WITH CIRCUIT-34	-	-		36
37		20	1	SPARE					975	----	----	975	16		X	INDOOR LIGHTING	1	20	1	38
39		20	1	SPARE					----	----	2604	2604			1	SUB PANEL "B4"	2	100	2	40
41		20	1	SPARE					1628	----	----	1628			-	WITH CIRCUIT-40	-	-	2	42
	NOTES:							TOTAL	30315	0	29164	CONNECTED KVA				59.5			SUM	

CONN.KVA (CODE 1) 20.7
CONN.KVA (CODE 2) 33.0
CONN.KVA (CODE 3) 5.8
CONN.KVA (CODE 4) 0.0
0.0
SPARE (DECIMAL) SPARE KVA

BY:
ISSUE DATE:
PANEL:

FEEDER DEMAND KVA 64.6
FEEDER DEMAND AMPS 269.4
X'FMR. KVA 64.6

SHAMIM ENGINEERING GROUP
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VINCENT PARK MAINTENANCE FACILITY

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SHEET REVISION	DATE

ISSUE	DATE
ISSUE FOR BID	02.12.2026
90% PROGRESS DESIGN	11.21.2025
75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

PANEL SCHEDULES

SCALE: NO SCALE

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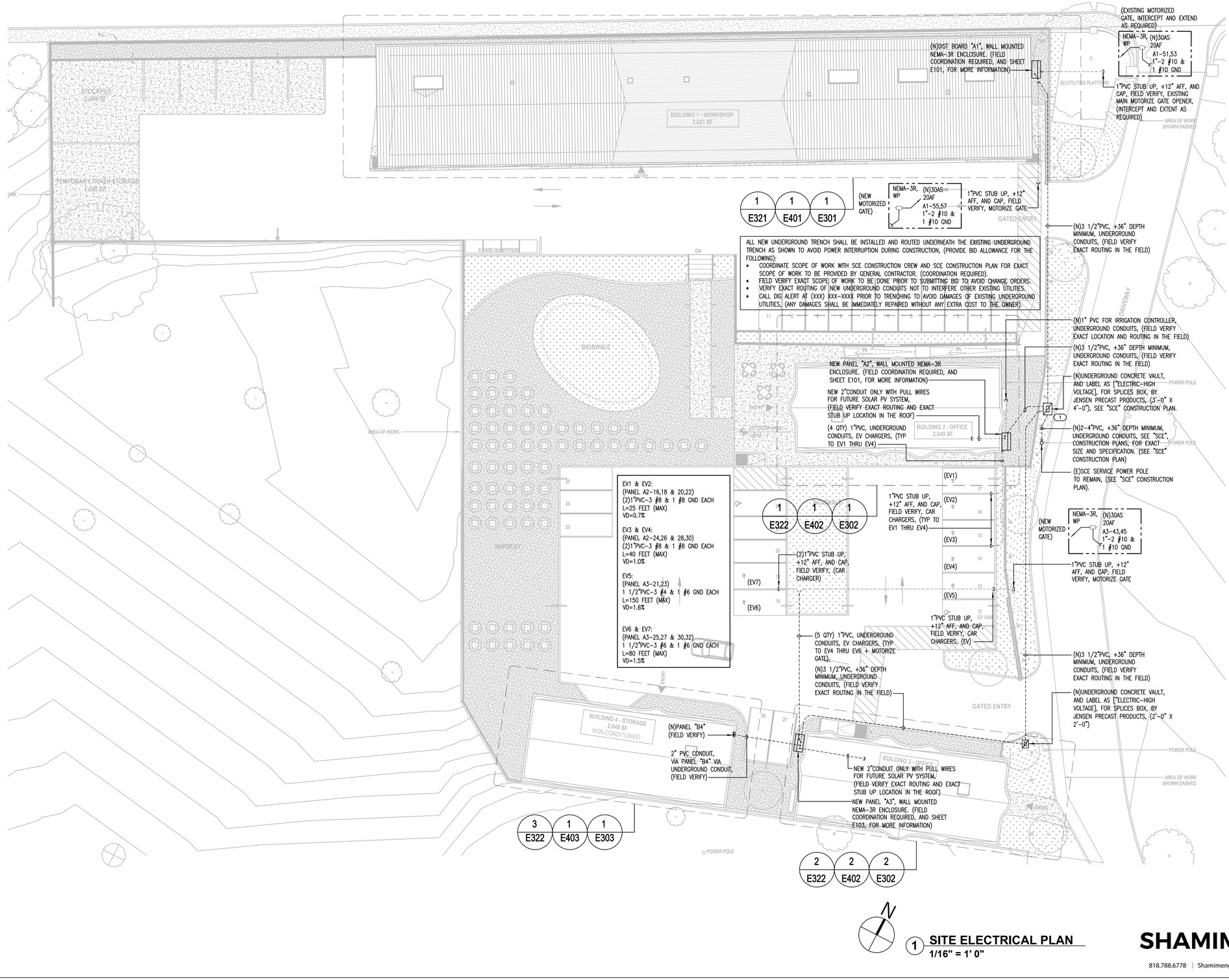

1 **SITE ELECTRICAL PLAN**
1/16" = 1' 0"

NOTES TO CONTRACTOR

1. MATERIALS AND CONSTRUCTION ARE SUBJECT TO INSPECTION AND APPROVAL OF LOS ANGELES DEPARTMENT OF WATER AND POWER (LADWP). NOTIFY THE GWP CONSTRUCTION INSPECTOR (818) XXX-XXXX, 48 HOURS IN ADVANCE OF CONSTRUCTION. THE INSPECTOR MUST BE PRESENT WHEN THE JOB STARTS. CONTRACTOR MUST ALSO SECURE LADWP AUTHORIZATION PRIOR TO OBTAINING EXCAVATION PERMIT FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY.
2. OBTAIN EXCAVATION PERMIT IN PUBLIC RIGHT-OF-WAY FROM PUBLIC WORKS, PERMIT SERVICES CENTER. CONTRACTOR SHALL NOTIFY PERMIT SERVICES CENTER (805) XXX-XXXX, 48 HOURS IN ADVANCE OF THE TIME WHEN BACKFILLING IS TO BE DONE UNDER THIS PERMIT. NO BACKFILLING SHALL BE DONE UNLESS A PUBLIC WORKS INSPECTOR IS PRESENT. THE EXCAVATION PERMIT SHALL BE MADE AVAILABLE AT JOB SITE FOR REVIEW BY THE sce CONSTRUCTION INSPECTOR.
3. ALL NECESSARY RESURFACING IN THE PUBLIC RIGHT-OF-WAY IS THE TOTAL RESPONSIBILITY OF THE CONTRACTOR, AND MUST BE TO THE SATISFACTION OF THE PUBLIC WORKS INSPECTOR. ALL CITY PROPERTY SHALL BE RESTORED TO ITS ORIGINAL CONDITION.
4. ALL INSTALLATIONS SHALL CONFORM TO LADWP SERVICE PLANNER, REQUIREMENTS FROM THE SERVICE REQUIREMENTS MANUAL.
5. THE CONTRACTOR SHALL VERIFY ALL EXISTING SUBSTRUCTURE INFORMATION AND DIMENSIONS IN THE PUBLIC RIGHT-OF-WAY. ANY DAMAGE TO THESE SUBSTRUCTURES WILL BE THE TOTAL RESPONSIBILITY OF THE CONTRACTOR.
6. BREAKING INTO ENERGIZED VAULTS AND PULL BOXES REQUIRES THE PRESENCE OF A SCE SAFETY PERSON. TO COORDINATE THIS WORK, CONTACT THE LDWP CONSTRUCTION INSPECTOR (323) XXX-XXXX, IN ADVANCE OF BREAKING INTO ENERGIZED VAULTS AND PULL BOXES.
7. ELECTRICAL CONTRACTOR IS TO SUBMIT ELECTRICAL EQUIPMENT DRAWINGS TO (NAME), SERVICE PLANNER, AT (COMPLETE ADDRESS), (805) XXX-XXXX, PRIOR TO MANUFACTURING.
8. CONTRACTOR SHALL OBTAIN UTILITY POWER CONSTRUCTION DRAWINGS PRIOR TO CONSTRUCTION AND SHALL INSTALL POWER CONDUIT AND STRUCTURES ACCORDING TO THE POWER COMPANY DRAWINGS. REFER TO UTILITY POWER COMPANY, (SCE) CONSTRUCTION DRAWING FOR CONDUITS REQUIRING CONCRETE ENCASEMENTS AND INCLUDE IN CONTRACTOR BID.
9. CLAMP #3 COPPER GROUND CONDUCTOR TO EACH BOLLARD POST AND CHAIN LINK FENCE WITH BURNDY TYPE "CG" GROUND CONNECTOR OR EQUAL. CONNECT TO GATE FRAME WITH TYPE "B" FLEXIBLE COPPER BRAND. (TYPICAL TO ALL FENCE POST POLE). FIELD VERIFY EXACT REQUIREMENTS AND NEEDED.
10. ALL CONDUITS STRUCTURES AND INSTALLATION FOR POWER AND SITE DISTRIBUTION SYSTEM SHALL CONFORM WITH THE REQUIREMENTS OF THE SERVING UTILITY SERVICE. ALL RACEWAYS SHALL CONTAIN A CODE SIZED, (NEC 250-122), INSULATED GREEN, COPPER EQUIPMENT GROUNDING CONDUCTOR AND SHALL BE BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM.

SHEET NOTES

(1) PROVIDE CONNECTION TO NEW FEEDERS WITH THE FOLLOWING: (NEC ARTICLE 312.8(A)):
- SPLICES, T-TAPPING LUGS, COMPRESSION TYPE CONNECTORS, WITH REQUIRED SIZES, TO ACCOMMODATE NEW FEEDERS AS SHOWN.
- SPLICES SHALL BE SUITABLE FOR WET LOCATIONS. (PER NEC ARTICLE 314.30(C), ENCLOSED WIRING, WITH SAFETY SEALED WIRE CONNECTOR, COLOR CODED REQUIRED).
- A WARNING LABEL COMPLYING SECTION 110.21(B), MUST BE APPLIED TO IDENTIFY THE CLOSEST DISCONNECTING MEANS, FOR THE FEED THRU CONDUCTORS.
- VERIFY EXACT SCOPE OF WORK IN THE FIELD PRIOR TO SUBMITTING BID. ALL INSTALLATION SHALL MEET CEC ARTICLE 300, WIRING AND METHODS.
- COORDINATED SCOPE OF WORK WITH SCE CONSTRUCTION PLAN, (COMPLY WITH CEC/NEC ARTICLE 300, WIRING AND METHODS).

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VPF 230309

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STATE OF CALIFORNIA

BAR SCALE

SHEET REVISION	DATE

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75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025
ISSUE	DATE

SITE ELECTRICAL PLAN

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

2/18/2026

E201

DATE
2.18.2026

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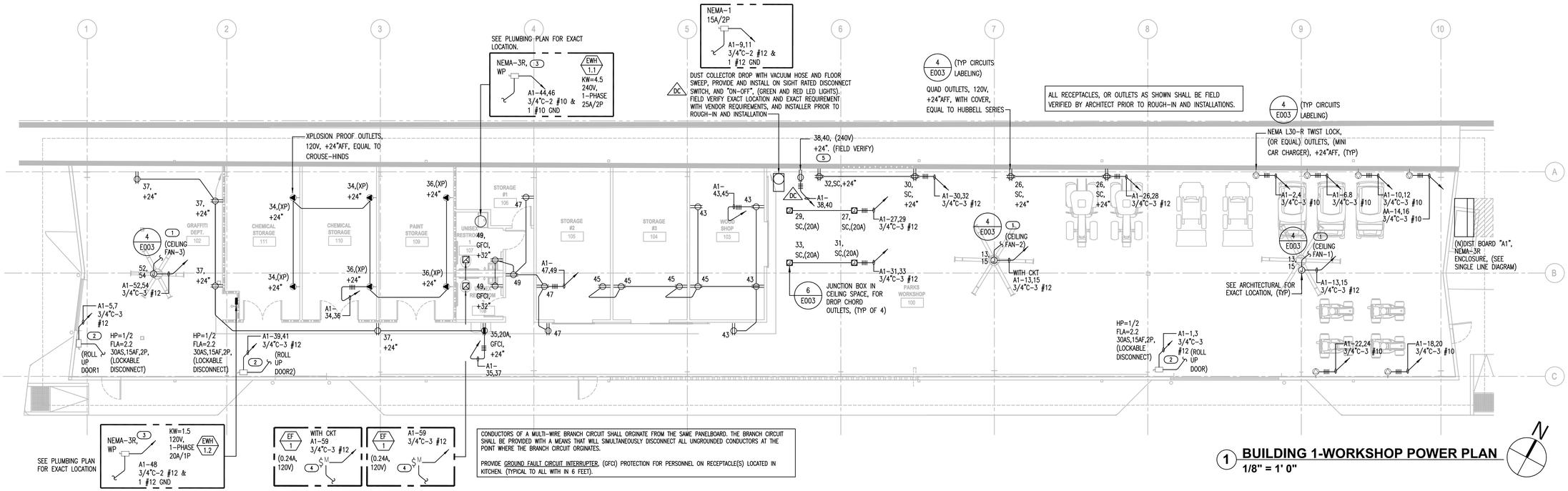

CONDUCTORS OF A MULTI-WIRE BRANCH CIRCUIT SHALL ORGINATE FROM THE SAME PANELBOARD. THE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORGINATES.

PROVIDE GROUND FAULT CIRCUIT INTERRUPTER, (GFCI) PROTECTION FOR PERSONNEL ON RECEPTACLE(S) LOCATED IN KITCHEN. (TYPICAL TO ALL WITH IN 6 FEET).

① BUILDING 1-WORKSHOP POWER PLAN

1/8" = 1' 0"

KEY NOTES

① PROVIDE AND INSTALL A LISTED FAN RATED OUTLET BOX FOR THE SOLE SUPPORT OF CEILING-SUSPENDED (PADDLE) FAN AS PERMITTED PER NEC ARTICLE 314.27(C).
- RATED CEILING FAN OUTLET BOX, AND ENSURING THAT THEY ARE ABLE TO SUPPORT A CEILING FAN IF THE BOX PLACED IN A LOCATION WHERE A CEILING FAN IS LIKELY TO BE INSTALLED.
- PROVIDE REQUIRED SEPARATE SWITCH, PER ARCHITECTURAL LOCATION, UNGROUNDED CONDUCTORS IN A BOX LOCATED IN ACCESSIBLE CEILING SPACE, OR SPOT WHERE A CEILING MOUNTED FAN MAY INSTALLED, OR PER MANUFACTURER'S RECOMMENDATIONS.
- FOR OUTLET FANS THAT WEIGHT MORE THAN 35 POUNDS, REQUIRED MARKING SHALL INCLUDE THE MAXIMUM WEIGHT TO BE SUPPORTED.

② PROVIDE LOCKABLE DISCONNECT SWITCH, AS REQUIRED, WHIP CONNECTION TO ROLL UP DOOR, BUILT-IN CONTROLLER, PROVIDED BY VENDOR, WITH (2)3/4" CONDUIT ONLY WITH PULL WIRES VIA INDOOR AND OUTDOOR CONTROLLER. FIELD VERIFY EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN AND INSTALLER.

③ PROVIDE AND INSTALL RATED DISCONNECT SWITCH AND AS REQUIRED FOR CONNECTION TO ELECTRIC WATER HEATER. LOCATE DISCONNECT SWITCH OR RATED TOGGLE SWITCH, ADJACENT TO ELECTRIC WATER HEATER, AND BREAKER LOCK-OFF DEVICE AT BRANCH CIRCUIT BREAKER TO MEET CEC 422.31. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

④ EXHAUST FAN, PROVIDE AND INSTALL HEAVY DUTY SWITCH, MOTOR RATED MANUAL, NEMA-1 ENCLOSURE AND REQUIRED CONDUIT AND WIRES FOR POWER, (120V, 1-PHASE). VERIFY EXACT LOCATION AND SEQUENCE OF OPERATION WITH WITH HVAC INSTALLER AND KITCHEN EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.

⑤ PROVIDE AND INSTALL REQUIRED RECEPTACLE OUTLET, 20 AMPS RATED OUTLET, WITH NEMA TYPE CONFIGURATION, TO MATCH EQUIPMENT PLUG AS REQUIRED. SEE MANUFACTURER'S OR VENDOR SPECIFICATIONS PRIOR TO ROUGH-IN. (TYPICAL TO GARBAGE DISPOSER MACHINE, REFRIGERATOR, FREEZER OUTLET, MICROWAVE EQUIPMENT OUTLETS AND ETC). FIELD VERIFY EXACT LOCATION, QUANTITY WITH ARCHITECTURAL DRAWINGS, PRIOR TO ROUGH-IN AND INSTALLATION. (COMPLY WITH NEC/CEC ARTICLE 422 APPLIANCES). UL LISTED AND ENERGY STAR EQUIPMENTS.

GENERAL NOTES: (AV, IT + SECURITY SYSTEM)

1. REFER TO A/V, IT AND SECURITY SYSTEM CONSULTANT DRAWINGS, FOR ALL ELECTRICAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO CONDUITS AND CONDUIT SUPPORTS, SLEEVES, OUTLET BOXES, PULL BOXES AND ETC. SEE ALSO ARCHITECTURAL DRAWINGS.

2. FOR A/V CONDUITS SYSTEM POWER REQUIREMENTS NOT SHOWN ON THIS PLAN, PROVIDE THE FOLLOWING: (1) DEDICATED 20 AMPS CIRCUIT AT DUPLEX OUTLET, LOCATED AT EVERY WALL MOUNTED VIDEO CAMERA, LOUDSPEAKER AND AT ADJACENT TO EACH A/V INPUT PLATE OR TABLE BOX BUILT INTO FURNITURE. FOR OTHER A/V SYSTEM POWER AND SIGNAL REQUIREMENTS NOT LISTED HERE, REFER TO A/V CONSULTANT DRAWINGS.

3. FOR CONDUIT ROUGH-IN BETWEEN A/V SYSTEM, AV INTERFACE SYSTEM, CONDUIT AND BOXES SIZES AND OTHER REQUIRED ITEMS NEEDED TO INSTALL FOR COMPLETE AND WORKABLE, MEANS AND METHODS, REFER TO AV INSTALLER PRIOR TO ROUGH-IN. VERIFY WITH CONSULTANT AND ARCHITECTURAL DRAWINGS AS REQUIRED. SEE ALSO DETAIL #1 THRU DETAIL #9 IN SHEET E-0.4 FOR DETAILED INFORMATION.

4. PROVIDE REQUIRED POWER REQUIREMENTS, INCLUDING ASSOCIATED CONDUIT AND WIRES PER SPECIFICATIONS. (SEE VENDOR POWER REQUIREMENTS).

NOTES:

a. ALL RECEPTACLES IN THE KITCHEN AND BREAK AREA, OR INSTALLED TO SERVE COUNTERTOP SURFACES WITH SINK SHALL BE PROTECTED WITH "GFCI" RATED, PER CEC 2022 SECTION 210.8(B). REFER TO ARCHITECTURAL DRAWINGS AND VERIFY ALL DEVICE AND EQUIPMENT LOCATIONS, HEIGHTS, ETC PRIOR TO ROUGH-IN. (OUTLETS WITH IN 6 FEET OF WATER SOURCE/SINKS, PERMANENT PROVISION FOR EITHER FOOD PREPARATION OR COOKING).
b. VENDING MACHINES AND ELECTRIC DRINKING FOUNTAINS SHALL BE CONNECTED TO "GFCI" PROTECTED OUTLETS, PER CEC 422.51 & 422.52
c. VERIFY ALL SERVER/DATA CENTER/AUDIO/VIDEO DEVICE, AND SECURITY AND FIRE ALARM SYSTEM EQUIPMENT LOCATIONS, SPEAKER LOCATIONS, CONDUIT SIZES, POWER REQUIREMENTS, FLOOR CORE LOCATIONS AND ALL LOW VOLTAGE SYSTEMS REQUIREMENTS WITH ARCHITECT AND TENANT'S IT, AND AV CONSULTANT'S REPRESENTATIVE PRIOR TO ROUGH-IN.

SHEET NOTES

18. PROVIDE FINAL CONNECTION TO ALL EQUIPMENT, INCLUDING EQUIPMENT PROVIDED BY OTHER TRADES, UNLESS INDICATED OTHERWISE.

19. FOR ALL EQUIPMENTS THAT NEED POWER, REFER TO ARCHITECTURAL DRAWING AND EQUIPMENT SCHEDULE AND NOTES. PROVIDE POWER AND CONDUITS AS REQUIRED.

20. CIRCUITS SHOWN ARE FOR DESIGN INTENT ONLY, FOR GROUPING OF RECEPTACLES IN ONE CIRCUIT. CONTRACTOR SHALL FIELD VERIFY AND REUSE EXISTING CIRCUITS TO MATCH DESIGN INTENT.REASSIGN CIRCUITS IF NECESSARY DEPENDING ON CIRCUIT AVAILABILITY. UPDATE AND AS-BUILT PANEL SCHEDULES AND CIRCUITRY TO MATCH ACTUAL WORKS.

21. ALL RECEPTACLES OUTLETS, DATA OUTLETS INSTALLED IN FIRE RATED WALLS SHALL BE SEALED WITH FIRE RATED COMPOUND.

22. FOR FIRE/LIFE SAFETY REQUIREMENTS, INCLUDING BUT NOT LIMITED TO DUCT DETECTORS SHOWN ON HVAC AND FIRE PROTECTION PLANS, CONTRACTOR SHALL MAKE PROVISIONS FOR CONNECTION OF NEW DEVICES TO BUILDING FIRE LIFE/SAFETY SYSTEM AS OUTLINED ON SHEET E001.

23. ALL BREAKERS FEEDING MULTIPLE CIRCUIT HOMERUNS SHALL BE PROVIDED WITH UL LISTED HANDLE TIES ON SINGLE POLE BREAKERS SERVING MULTI WIRE BRANCH CIRCUITS IN COMPLIANCE WITH CEC 210.4B. HANDLE TIE SHALL BE SQUARE D CATALOG NUMBER QO1HT OR EATON CUTLER HAMMER CATALOG NUMBER QL1HT.

24. ALL CONDUIT PENETRATION THROUGH FLOOR SHALL BE FIRE SEALED IN COMPLIANCE WITH UL STANDARDS. PROVIDE FIRE SEALANT BY 3M OR EQUAL. COMPLIANCE WITH UL STANDARDS. PROVIDE FIRE SEALANT BY 3M OR EQUAL. SEE DETAIL #1 IN SHEET E003 AND OR PER CEC 300.21 AND CEC 800.26 CODE REQUIREMENTS.

25. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

26. ALL WORKS TO COMPLY WITH THE 2022 CALIFORNIA ELECTRICAL CODE, (2020 NEC CODE).

27. PANEL BOARD CIRCUITRY DIRECTORY SHALL COMPLY WITH SECTION 408.4 OF CALIFORNIA ELECTRICAL CODE

1. CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.

2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR AND CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.

3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.

4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.

5. PROVIDE 3/4" CONDUIT MINIMUM, UNLESS OTHERWISE NOTED, (UON).

6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.

7. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS. PROVIDE REQUIRED 120 VOLTS POWER.

8. VERIFY LOCATION OF ALL DEVICES PER ARCHITECTURAL PLANS.

9. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

10. PROVIDE 3/4"C FROM EACH THERMOSTAT TO RESPECTIVE AC UNIT OR SUPPLY OR EXHAUST FAN. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND REQUIREMENTS PRIOR TO ROUGH-IN.

11. ALL PENETRATIONS INTO FIRE RATED WALL AND ALL FLOOR CORING SHALL BE SEALED X-RAYED FOR CORING. FOR ALL CONDUIT PENETRATION, SEE TYPICAL DETAIL ON ARCHITECTURAL DRAWINGS OR PER TENANT'S APPROVAL.

12. UNLESS OTHERWISE NOTED, ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTION(S) ARE NEW. SEE MECHANICAL DRAWINGS FOR ACTUAL LOCATION AND ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT.

13. TELEPHONE/DATA CONDUITS AND POWER CONDUITS IF RUN PARALLEL, SHALL HAVE NO LESS THAN 12" SEPARATION BETWEEN CONDUITS. ALL EXPOSED CONDUIT SHALL BE EMT AND SHALL BE RUN AS HIGH AS POSSIBLE, GROUP AND SPACED EVENLY WITH TYPICAL HANGERS.

14. NO EQUIPMENT, JUNCTION BOX, ETC.. REQUIRING ACCESS SHALL BE LOCATED IN HARD CEILING AREAS, (UNLESS ACCESS PANEL IS PROVIDED, COORDINATE WITH ARCHITECT). RELOCATE ANY EXISTING EQUIPMENT, JUNCTION BOX, ETC, TO ACCESSIBLE CEILING SPACE.

15. ALL 2-CIRCUIT HOMERUNS SHARING NEUTRAL SHALL BE PROVIDED WITH #10 NEUTRAL WIRES.

16. PROVIDE AND INSTALL #10 WIRES FOR 120V CIRCUITS HOMERUNS MORE THAN 100 FEET.

17. ALL SPECIAL AND DEDICATED OUTLETS AND PLUGS SHALL BE VERIFIED WITH EQUIPMENT VENDOR AND PROVIDE AS REQUIRED NEMA TYPE CONFIGURATION. ALSO, IF REQUIRED PROVIDE DEDICATED OR ISOLATED GROUND IF NEEDED AND AS REQUIRED. SEE ARCHITECTURAL DETAILS AND NOTES FOR MORE INFORMATION AND REQUIREMENTS.

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STAMP

E16165
EXP. 06/30/26
ANGELUS CALAGUAS

BAR SCALE

SHEET REVISION	DATE

ISSUE	DATE
ISSUE FOR BID	02.12.2026
90% PROGRESS DESIGN	11.21.2025
75% PROGRESS DESIGN	11.11.2025
60% PROGRESS DESIGN	05.16.2025
40% PROGRESS DESIGN	04.15.2025

BUILDING 1-WORKSHOP POWER PLAN

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

2/18/2026

E301

DATE
2.18.2026

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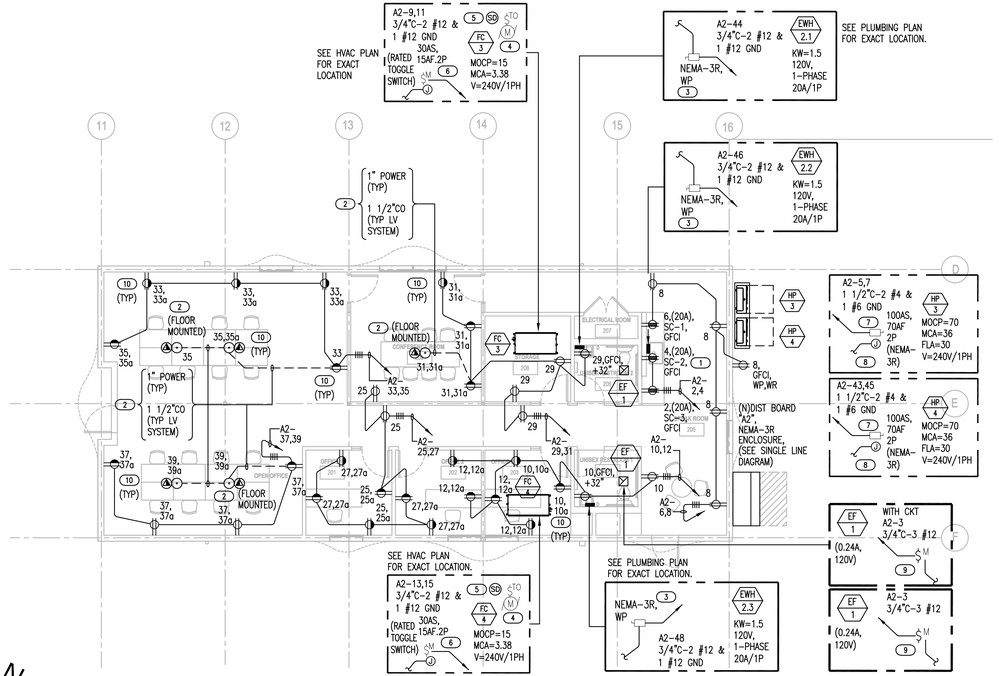
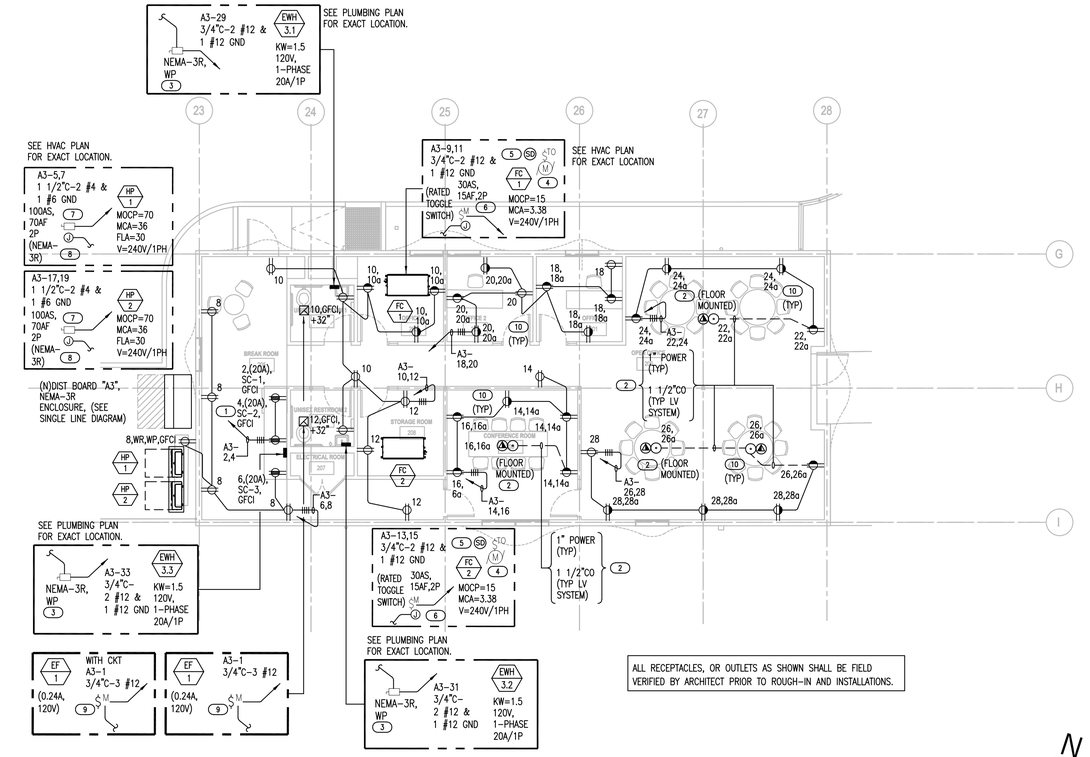


1 BUILDING 2-OFFICE POWER PLAN

1/8" = 1' 0"



2 BUILDING 3-OFFICE POWER PLAN

1/8" = 1' 0"

KEY NOTES-(CONTINUATION)

3. PROVIDE AND INSTALL RATED DISCONNECT SWITCH AND AS REQUIRED FOR CONNECTION TO ELECTRIC WATER HEATER. LOCATE DISCONNECT SWITCH OR RATED TOGGLE SWITCH, ADJACENT TO ELECTRIC WATER HEATER, AND BREAKER LOCK-OFF DEVICE AT BRANCH CIRCUIT BREAKER TO MEET CEC 422.31. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

4. PROVIDE 120V, 1-PHASE POWER CONNECTION TO CONDENSATE PUMP, OR THE CONTRACTOR SHALL ROUTE POWER SUPPLY TO AC UNIT BLOCK FOR 120 VOLTS POWER CONNECTIONS AS REQUIRED TO CONDENSATE PUMP. COORDINATE EXACT LOCATION WITH HVAC UNIT INSTALLER PRIOR TO ROUGH-IN.

5. PROVIDE AND INSTALL SMOKE DETECTOR CONDUIT, BACKBOX AND CONTROL WIRES, TO FC'S AND INTERLOCK WITH FIRE ALARM SYSTEM TO SHUT DOWN THE UNIT UPON ACTIVATION OF SMOKE DETECTORS, REFER TO MECHANICAL/HVAC FOR EXACT LOCATION AND SEQUENCE OF OPERATION. COORDINATE CONNECTION WITH FIRE ALARM CONTRACTOR'S PRIOR TO ROUGH-IN AND INSTALLATIONS.

6. PROVIDE AND INSTALL 3/4" CONDUIT WITH CONTROL WIRES TO PROGRAMMABLE THERMOSTAT LOCATION PER HVAC OR KITCHEN EQUIPMENT LOCATION. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.

7. HVAC UNIT, LOCATED IN THE ROOF, (SEE HVAC AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATION, WITH NEW REQUIRED WEATHERPROOF, NEMA-3R ENCLOSURE, RATED MOTOR DISCONNECT SWITCH MOUNTED IN THE REQUIRED LOCATION, TO MEET CEC/NEC CODE CLEARANCE REQUIREMENTS, COORDINATE EXACT LOCATION WITH ARCHITECT OR PER HVAC LOCATION PRIOR TO ROUGH-IN. PROVIDE AND INSTALL 3/4" CONDUIT WIRES VIA AC OR FC'S UNIT CONTROLLERS OR PER HVAC SEQUENCE OF OPERATION AND AS REQUIRED FOR COMPLETE INSTALLATION. MEANS AND METHODS OF INSTALLATION, COORDINATION OF EXISTING UTILITIES NOT TO INTERFERE AND SHALL BE INSTALLED PER CEC/NEC CODE COMPLIANCE.

8. PROVIDE 3/4"C WITH CONTROL WIRES AND DRY CONTACTS IF NEEED AND AS REQUIRED PER HVAC CONTROL SYSTEM WIRING DIAGRAM. VERIFY EXACT SEQUENCE OF OPERATION WITH HVAC INSTALLER PRIOR TO ROUGH-IN.

9. EXHAUST FAN, PROVIDE AND INSTALL HEAVY DUTY SWITCH, MOTOR RATED MANUAL, NEMA-1 ENCLOSURE AND REQUIRED CONDUIT AND WIRES FOR POWER, (120V, 1-PHASE). VERIFY EXACT LOCATION AND SEQUENCE OF OPERATION WITH WITH HVAC INSTALLER PRIOR TO ROUGH-IN.

10. PROVIDE 120 VOLTS RECEPTACLES IN OFFICES, RECEPTION, CONFERENCE ROOMS, PANTRIES AND COPY ROOMS SHALL BE CONTROLLED AND AUTOMATICALLY TURN-OFF WITH THE LIGHTS PER 2022 TITLE-24. A CONTROLLED RECEPTACLE DISTINCTLY LABELED SHALL BE LOCATED WITHIN 6'-0" OF EACH UNCONTROLLED RECEPTACLE. CONTROLLED RECEPTACLE ARE SHOWN WITH "a" SUBSCRIPT, CONNECT CONTROLLED RECEPTACLES CIRCUIT TO LOCAL SWITCH RACK/OCCUPANCY SENSOR IN THE AREA. SEE SHEET E003, DETAIL #8, LOW VOLTAGE CONTROL WIRING DIAGRAM.

GENERAL NOTES: (AV, IT + SECURITY SYSTEM)

1. REFER TO A/V, IT AND SECURITY SYSTEM CONSULTANT DRAWINGS, FOR ALL ELECTRICAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO CONDUITS AND CONDUIT SUPPORTS, SLEEVES, OUTLET BOXES, PULL BOXES AND ETC. SEE ALSO ARCHITECTURAL DRAWINGS.

2. FOR A/V CONDUITS SYSTEM POWER REQUIREMENTS NOT SHOWN ON THIS PLAN, PROVIDE THE FOLLOWING: (1) DEDICATED 20 AMPS CIRCUIT AT DUPLEX OUTLET, LOCATED AT EVERY WALL MOUNTED VIDEO CAMERA, LOUDSPEAKER AND AT ADJACENT TO EACH A/V INPUT PLATE OR TABLE BOX BUILT INTO FURNITURE. FOR OTHER A/V SYSTEM POWER AND SIGNAL REQUIREMENTS NOT LISTED HERE, REFER TO A/V CONSULTANT DRAWINGS.

3. FOR CONDUIT ROUGH-IN BETWEEN A/V SYSTEM, AV INTERFACE SYSTEM, CONDUIT AND BOXES SIZES AND OTHER REQUIRED ITEMS NEEDED TO INSTALL FOR COMPLETE AND WORKABLE, MEANS AND METHODS, REFER TO AV INSTALLER PRIOR TO ROUGH-IN. VERIFY WITH CONSULTANT AND ARCHITECTURAL DRAWINGS AS REQUIRED. SEE ALSO DETAIL #1 THRU DETAIL #9 IN SHEET E-0.4 FOR DETAILED INFORMATION.

4. PROVIDE REQUIRED POWER REQUIREMENTS, INCLUDING ASSOCIATED CONDUIT AND WIRES PER SPECIFICATIONS. (SEE VENDOR POWER REQUIREMENTS).

NOTES:

a. ALL RECEPTACLES IN THE KITCHEN AND BREAK AREA, OR INSTALLED TO SERVE COUNTERTOP SURFACES WITH SINK SHALL BE PROTECTED WITH "GFCI" RATED, PER CEC 2022 SECTION 210.8(B). REFER TO ARCHITECTURAL DRAWINGS AND VERIFY ALL DEVICE AND EQUIPMENT LOCATIONS, HEIGHTS, ETC PRIOR TO ROUGH-IN. (OUTLETS WITH IN 6 FEET OF WATER SOURCE/SINKS, PERMANENT PROVISION FOR EITHER FOOD PREPARATION OR COOKING).

b. VENDING MACHINES AND ELECTRIC DRINKING FOUNTAINS SHALL BE CONNECTED TO "GFCI" PROTECTED OUTLETS, PER CEC 422.51 & 422.52

c. VERIFY ALL SERVER/DATA CENTER/AUDIO/VIDEO DEVICE, AND SECURITY AND FIRE ALARM SYSTEM EQUIPMENT LOCATIONS, SPEAKER LOCATIONS, CONDUIT SIZES, POWER REQUIREMENTS, FLOOR CORE LOCATIONS AND ALL LOW VOLTAGE SYSTEMS REQUIREMENTS WITH ARCHITECT AND TENANT'S IT, AND AV CONSULTANT'S REPRESENTATIVE PRIOR TO ROUGH-IN.

KEY NOTES

1. PROVIDE AND INSTALL REQUIRED RECEPTACLE OUTLET, 20 AMPS RATED OUTLET, WITH NEMA TYPE CONFIGURATION, TO MATCH EQUIPMENT PLUG AS REQUIRED. SEE MANUFACTURER'S OR VENDOR SPECIFICATIONS PRIOR TO ROUGH-IN. (TYPICAL TO GARBAGE DISPOSER MACHINE, REFRIGERATOR, FREEZER OUTLET, MICROWAVE EQUIPMENT OUTLETS AND ETC). FIELD VERIFY EXACT LOCATION, QUANTITY WITH ARCHITECTURAL DRAWINGS, PRIOR TO ROUGH-IN AND INSTALLATION. (COMPLY WITH NEC/CEC ARTICLE 422 APPLIANCES). UL LISTED AND ENERGY STAR EQUIPMENTS.

2. PROVIDE AND INSTALL FLOOR OUTLET, PER DETAIL #7, IN SHEET E003, 1"C FOR TYPICAL POWER, AND 1 1/2"CO WITH PULL WIRES FOR LOW VOLTAGE SYSTEM, (STUB UP ABOVE ACCESSIBLE CEILING SPACE), COORDINATE WITH PRIOR TO POURING CONCRETE FLOOR TO ACCOMMODATE FLOOR OUTLET AND CONDUIT RUNS, TO A NEAREST FULL HEIGHT WALL, VIA ACCESSIBLE CEILING SPACE. FIELD VERIFY EXACT LOCATION, EXACT ROUTING IN THE FIELD PRIOR TO ROUGH-IN AND INSTALLATION, TO MEET NEC ARTICLE 300, WIRING AND METHODS.

SHEET NOTES

18. PROVIDE FINAL CONNECTION TO ALL EQUIPMENT, INCLUDING EQUIPMENT PROVIDED BY OTHER TRADES, UNLESS INDICATED OTHERWISE.

19. FOR ALL EQUIPMENTS THAT NEED POWER, REFER TO ARCHITECTURAL DRAWING AND EQUIPMENT SCHEDULE AND NOTES. PROVIDE POWER AND CONDUITS AS REQUIRED.

20. CIRCUITS SHOWN ARE FOR DESIGN INTENT ONLY, FOR GROUPING OF RECEPTACLES IN ONE CIRCUIT. CONTRACTOR SHALL FIELD VERIFY AND REUSE EXISTING CIRCUITS TO MATCH DESIGN INTENT.REASSIGN CIRCUITS IF NECESSARY DEPENDING ON CIRCUIT AVAILABILITY. UPDATE AND AS-BUILT PANEL SCHEDULES AND CIRCUITRY TO MATCH ACTUAL WORKS.

21. ALL RECEPTACLES OUTLETS, DATA OUTLETS INSTALLED IN FIRE RATED WALLS SHALL BE SEALED WITH FIRE RATED COMPOUND.

22. FOR FIRE/LIFE SAFETY REQUIREMENTS, INCLUDING BUT NOT LIMITED TO DUCT DETECTORS SHOWN ON HVAC AND FIRE PROTECTION PLANS, CONTRACTOR SHALL MAKE PROVISIONS FOR CONNECTION OF NEW DEVICES TO BUILDING FIRE LIFE/SAFETY SYSTEM AS OUTLINED ON SHEET E001.

23. ALL BREAKERS FEEDING MULTIPLE CIRCUIT HOMERUNS SHALL BE PROVIDED WITH UL LISTED HANDLE TIES ON SINGLE POLE BREAKERS SERVING MULTI WIRE BRANCH CIRCUITS IN COMPLIANCE WITH CEC 210.4B. HANDLE TIE SHALL BE SQUARE D CATALOG NUMBER QO1HT OR EATON CUTLER HAMMER CATALOG NUMBER QL1HT.

24. ALL CONDUIT PENETRATION THROUGH FLOOR SHALL BE FIRE SEALED IN COMPLIANCE WITH UL STANDARDS. PROVIDE FIRE SEALANT BY 3M OR EQUAL. COMPLIANCE WITH UL STANDARDS. PROVIDE FIRE SEALANT BY 3M OR EQUAL. SEE DETAIL #1 IN SHEET E003 AND OR PER CEC 300.21 AND CEC 800.26 CODE REQUIREMENTS.

25. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

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27. PANEL BOARD CIRCUITRY DIRECTORY SHALL COMPLY WITH SECTION 408.4 OF CALIFORNIA ELECTRICAL CODE

1. CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.

2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR AND CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.

3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.

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5. PROVIDE 3/4" CONDUIT MINIMUM, UNLESS OTHERWISE NOTED, (UON).

6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.

7. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS. PROVIDE REQUIRED 120 VOLTS POWER.

8. VERIFY LOCATION OF ALL DEVICES PER ARCHITECTURAL PLANS.

9. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

10. PROVIDE 3/4"C FROM EACH THERMOSTAT TO RESPECTIVE AC UNIT OR SUPPLY OR EXHAUST FAN. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND REQUIREMENTS PRIOR TO ROUGH-IN.

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12. UNLESS OTHERWISE NOTED, ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTION(S) ARE NEW. SEE MECHANICAL DRAWINGS FOR ACTUAL LOCATION AND ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT.

13. TELEPHONE/DATA CONDUITS AND POWER CONDUITS IF RUN PARALLEL, SHALL HAVE NO LESS THAN 12" SEPARATION BETWEEN CONDUITS. ALL EXPOSED CONDUIT SHALL BE EMT AND SHALL BE RUN AS HIGH AS POSSIBLE, GROUP AND SPACED EVENLY WITH TYPICAL HANGERS.

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15. ALL 2-CIRCUIT HOMERUNS SHARING NEUTRAL SHALL BE PROVIDED WITH #10 NEUTRAL WIRES.

16. PROVIDE AND INSTALL #10 WIRES FOR 120V CIRCUITS HOMERUNS MORE THAN 100 FEET.

17. ALL SPECIAL AND DEDICATED OUTLETS AND PLUGS SHALL BE VERIFIED WITH EQUIPMENT VENDOR AND PROVIDE AS REQUIRED NEMA TYPE CONFIGURATION. ALSO, IF REQUIRED PROVIDE DEDICATED OR ISOLATED GROUND IF NEEDED AND AS REQUIRED. SEE ARCHITECTURAL DETAILS AND NOTES FOR MORE INFORMATION AND REQUIREMENTS.

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BAR SCALE

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BUILDING 2&3 -OFFICE POWER PLAN

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

2/18/2026

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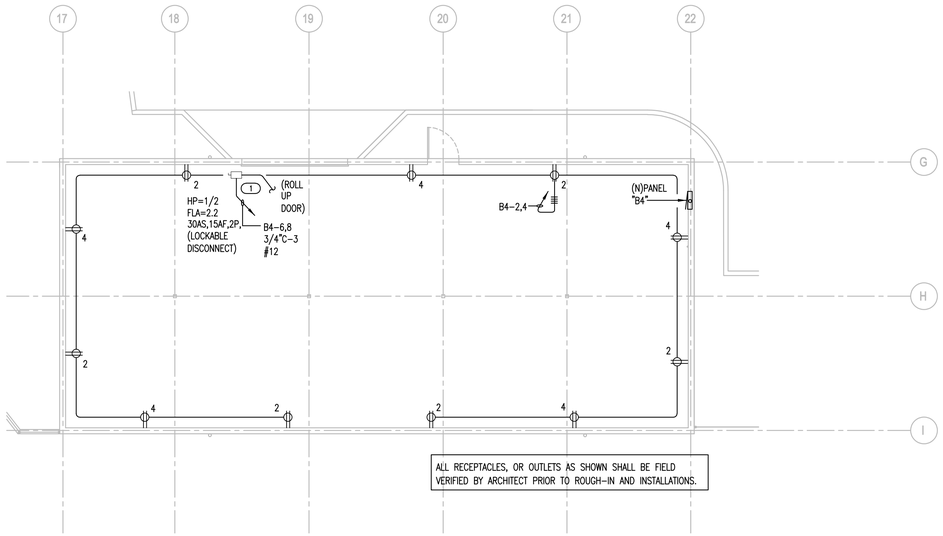

1 BUILDING 4 -STORAGE POWER PLAN
1/8" = 1' 0"

N

KEY NOTES

(1) PROVIDE LOCKABLE DISCONNECT SWITCH, AS REQUIRED, WHIP CONNECTION TO ROLL UP DOOR, BUILT–IN CONTROLLER, PROVIDED BY VENDOR, WITH (2)3/4" CONDUIT ONLY WITH PULL WIRES VIA INDOOR AND OUTDOOR CONTROLLER. FIELD VERIFY EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH–IN AND INSTALLER.

GENERAL NOTES: (AV, IT + SECURITY SYSTEM)

1. REFER TO A/V, IT AND SECURITY SYSTEM CONSULTANT DRAWINGS, FOR ALL ELECTRICAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO CONDUITS AND CONDUIT SUPPORTS, SLEEVES, OUTLET BOXES, PULL BOXES AND ETC. SEE ALSO ARCHITECTURAL DRAWINGS.
2. FOR A/V CONDUITS SYSTEM POWER REQUIREMENTS NOT SHOWN ON THIS PLAN, PROVIDE THE FOLLOWING: (1) DEDICATED 20 AMPS CIRCUIT AT DUPLEX OUTLET, LOCATED AT EVERY WALL MOUNTED VIDEO CAMERA, LOUDSPEAKER AND AT ADJACENT TO EACH A/V INPUT PLATE OR TABLE BOX BUILT INTO FURNITURE. FOR OTHER A/V SYSTEM POWER AND SIGNAL REQUIREMENTS NOT LISTED HERE, REFER TO A/V CONSULTANT DRAWINGS.
3. FOR CONDUIT ROUGH–IN BETWEEN A/V SYSTEM, AV INTERFACE SYSTEM, CONDUIT AND BOXES SIZES AND OTHER REQUIRED ITEMS NEEDED TO INSTALL FOR COMPLETE AND WORKABLE, MEANS AND METHODS, REFER TO AV INSTALLER PRIOR TO ROUGH–IN. VERIFY WITH CONSULTANT AND ARCHITECTURAL DRAWINGS AS REQUIRED. SEE ALSO DETAIL #1 THRU DETAIL #9 IN SHEET E–0.4 FOR DETAILED INFORMATION.
4. PROVIDE REQUIRED POWER REQUIREMENTS, INCLUDING ASSOCIATED CONDUIT AND WIRES PER SPECIFICATIONS. (SEE VENDOR POWER REQUIREMENTS).

NOTES:

a. ALL RECEPTACLES IN THE KITCHEN AND BREAK AREA, OR INSTALLED TO SERVE COUNTERTOP SURFACES WITH SINK SHALL BE PROTECTED WITH "GFCI" RATED, PER CEC 2022 SECTION 210.8(B). REFER TO ARCHITECTURAL DRAWINGS AND VERIFY ALL DEVICE AND EQUIPMENT LOCATIONS, HEIGHTS, ETC PRIOR TO ROUGH–IN. (OUTLETS WITH IN 6 FEET OF WATER SOURCE/SINKS, PERMANENT PROVISION FOR EITHER FOOD PREPARATION OR COOKING).
b. VENDING MACHINES AND ELECTRIC DRINKING FOUNTAINS SHALL BE CONNECTED TO "GFCI" PROTECTED OUTLETS, PER CEC 422.51 & 422.52
c. VERIFY ALL SERVER/DATA CENTER/AUDIO/VIDEO DEVICE, AND SECURITY AND FIRE ALARM SYSTEM EQUIPMENT LOCATIONS, SPEAKER LOCATIONS, CONDUIT SIZES, POWER REQUIREMENTS, FLOOR CORE LOCATIONS AND ALL LOW VOLTAGE SYSTEMS REQUIREMENTS WITH ARCHITECT AND TENANT'S IT, AND AV CONSULTANT'S REPRESENTATIVE PRIOR TO ROUGH–IN.

SHEET NOTES

1. CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH–IN AND FINISH.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR AND CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
4. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
5. PROVIDE 3/4" CONDUIT MINIMUM, UNLESS OTHERWISE NOTED, (UON).
6. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
7. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS. PROVIDE REQUIRED 120 VOLTS POWER.
8. VERIFY LOCATION OF ALL DEVICES PER ARCHITECTURAL PLANS.
9. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
10. PROVIDE 3/4"C FROM EACH THERMOSTAT TO RESPECTIVE AC UNIT OR SUPPLY OR EXHAUST FAN. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND REQUIREMENTS PRIOR TO ROUGH–IN.
11. ALL PENETRATIONS INTO FIRE RATED WALL AND ALL FLOOR CORING SHALL BE SEALED X–RAYED FOR CORING. FOR ALL CONDUIT PENETRATION, SEE TYPICAL DETAIL ON ARCHITECTURAL DRAWINGS OR PER TENANT'S APPROVAL.
12. UNLESS OTHERWISE NOTED, ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTION(S) ARE NEW. SEE MECHANICAL DRAWINGS FOR ACTUAL LOCATION AND ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT.
13. TELEPHONE/DATA CONDUITS AND POWER CONDUITS IF RUN PARALLEL, SHALL HAVE NO LESS THAN 12" SEPARATION BETWEEN CONDUITS. ALL EXPOSED CONDUIT SHALL BE EMT AND SHALL BE RUN AS HIGH AS POSSIBLE, GROUP AND SPACED EVENLY WITH TYPICAL HANGERS.
14. NO EQUIPMENT, JUNCTION BOX, ETC.. REQUIRING ACCESS SHALL BE LOCATED IN HARD CEILING AREAS, (UNLESS ACCESS PANEL IS PROVIDED, COORDINATE WITH ARCHITECT). RELOCATE ANY EXISTING EQUIPMENT, JUNCTION BOX, ETC, TO ACCESSIBLE CEILING SPACE.
15. ALL 2–CIRCUIT HOMERUNS SHARING NEUTRAL SHALL BE PROVIDED WITH #10 NEUTRAL WIRES.
16. PROVIDE AND INSTALL #10 WIRES FOR 120V CIRCUITS HOMERUNS MORE THAN 100 FEET.
17. ALL SPECIAL AND DEDICATED OUTLETS AND PLUGS SHALL BE VERIFIED WITH EQUIPMENT VENDOR AND PROVIDE AS REQUIRED NEMA TYPE CONFIGURATION. ALSO, IF REQUIRED PROVIDE DEDICATED OR ISOLATED GROUND IF NEEDED AND AS REQUIRED. SEE ARCHITECTURAL DETAILS AND NOTES FOR MORE INFORMATION AND REQUIREMENTS.
18. PROVIDE FINAL CONNECTION TO ALL EQUIPMENT, INCLUDING EQUIPMENT PROVIDED BY OTHER TRADES, UNLESS INDICATED OTHERWISE.
19. FOR ALL EQUIPMENTS THAT NEED POWER, REFER TO ARCHITECTURAL DRAWING AND EQUIPMENT SCHEDULE AND NOTES. PROVIDE POWER AND CONDUITS AS REQUIRED.
20. CIRCUITS SHOWN ARE FOR DESIGN INTENT ONLY, FOR GROUPING OF RECEPTACLES IN ONE CIRCUIT. CONTRACTOR SHALL FIELD VERIFY AND REUSE EXISTING CIRCUITS TO MATCH DESIGN INTENT.REASSIGN CIRCUITS IF NECESSARY DEPENDING ON CIRCUIT AVAILABILITY. UPDATE AND AS–BUILT PANEL SCHEDULES AND CIRCUITRY TO MATCH ACTUAL WORKS.
21. ALL RECEPTACLES OUTLETS, DATA OUTLETS INSTALLED IN FIRE RATED WALLS SHALL BE SEALED WITH FIRE RATED COMPOUND.
22. FOR FIRE/LIFE SAFETY REQUIREMENTS, INCLUDING BUT NOT LIMITED TO DUCT DETECTORS SHOWN ON HVAC AND FIRE PROTECTION PLANS, CONTRACTOR SHALL MAKE PROVISIONS FOR CONNECTION OF NEW DEVICES TO BUILDING FIRE LIFE/SAFETY SYSTEM AS OUTLINED ON SHEET E001.
23. ALL BREAKERS FEEDING MULTIPLE CIRCUIT HOMERUNS SHALL BE PROVIDED WITH UL LISTED HANDLE TIES ON SINGLE POLE BREAKERS SERVING MULTI WIRE BRANCH CIRCUITS IN COMPLIANCE WITH CEC 210.4B. HANDLE TIE SHALL BE SQUARE D CATALOG NUMBER QO1HT OR EATON CUTLER HAMMER CATALOG NUMBER QL1HT.
24. ALL CONDUIT PENETRATION THROUGH FLOOR SHALL BE FIRE SEALED IN COMPLIANCE WITH UL STANDARDS. PROVIDE FIRE SEALANT BY 3M OR EQUAL. COMPLIANCE WITH UL STANDARDS. PROVIDE FIRE SEALANT BY 3M OR EQUAL. SEE DETAIL #1 IN SHEET E003 AND OR PER CEC 300.21 AND CEC 800.26 CODE REQUIREMENTS.
25. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
26. ALL WORKS TO COMPLY WITH THE 2022 CALIFORNIA ELECTRICAL CODE, (2020 NEC CODE).
27. PANEL BOARD CIRCUITRY DIRECTORY SHALL COMPLY WITH SECTION 408.4 OF CALIFORNIA ELECTRICAL CODE

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BUILDING 4-STORAGE POWER PLAN

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

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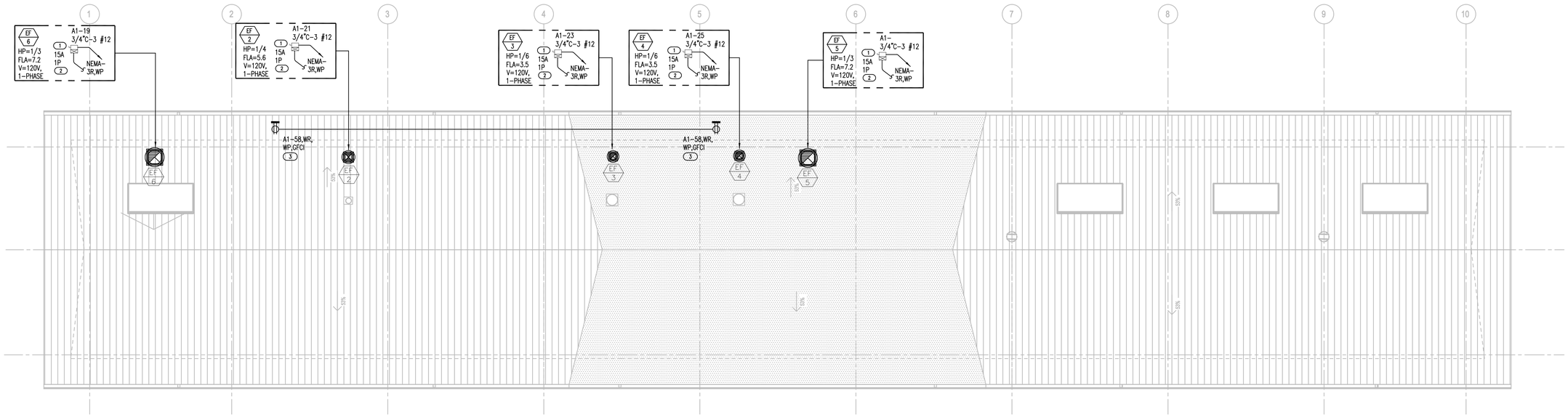
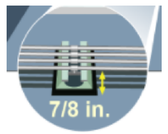


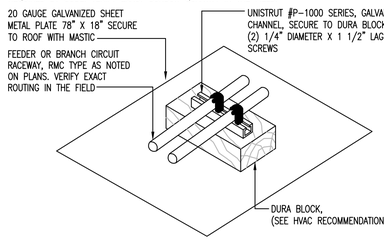
KEY NOTES

1. HVAC UNIT, LOCATED IN THE ROOF, (SEE HVAC AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATION, WITH NEW REQUIRED WEATHERPROOF, NEMA-3R ENCLOSURE, RATED MOTOR DISCONNECT SWITCH MOUNTED IN THE REQUIRED LOCATION, TO MEET CEC/NEC CODE CLEARANCE REQUIREMENTS, COORDINATE EXACT LOCATION WITH ARCHITECT OR PER HVAC LOCATION PRIOR TO ROUGH-IN. PROVIDE AND INSTALL 3/4" CONDUIT WIRES VIA AC OR FC'S UNIT CONTROLLERS OR PER HVAC SEQUENCE OF OPERATION AND AS REQUIRED FOR COMPLETE INSTALLATION. MEANS AND METHODS OF INSTALLATION, COORDINATION OF EXISTING UTILITIES NOT TO INTERFERE AND SHALL BE INSTALLED PER CEC/NEC CODE COMPLIANCE.
2. PROVIDE 3/4"C WITH CONTROL WIRES AND DRY CONTACTS IF NEEED AND AS REQUIRED PER HVAC CONTROL SYSTEM WIRING DIAGRAM. VERIFY EXACT SEQUENCE OF OPERATION WITH HVAC INSTALLER PRIOR TO ROUGH-IN.
3. PROVIDE AND INSTALL WEATHERPROOF, WEATHER RESISTANT TYPE, (WR), GFCI RECEPTACLE OUTLET TYPE, SHALL BE WITHIN 25'-0" OF ANY HVAC EQUIPMENT, MOUNTED IN UNISTRUT SUPPORT, ATTACHED TO HVAC UNIT WITH COMPLETE WEATHERPROOF COVER EQUAL TO HUBBELL. (COVER MUST BE BUBBLE TYPE THAT SEATS IN PLACE, EXTRA DUTY COVER, INTENDED OR OUTDOOR TYPE APPLICATION). VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. (DAISY CHAIN POWER POWER CONNECTION).
4. SAME AS KEY NOTE #1, WITH BUILT-IN MOTOR CONTROLLER, WITH REQUIRED NEMA-3R, WEATHERPROOF ENCLOSURE. FIELD VERIFY EXACT POWER REQUIREMENTS, EXACT SEQUENCE OF OPERATIONS PRIOR TO ROUGH-IN AND INSTALLATION. INSTALLATION SHALL MEET WITH CEC/NEC CODE COMPLIANCE AND REQUIREMENTS.



ACCORDING TO THE EXCEPTION IN 310.15(B)(3)(c), TYPE "XHHW-2" CONDUCTORS CAN BE USED WITHOUT ADDING THE ADDITIONAL 60 DEGREES CORRECTION FACTOR, EVEN IF THE CONDUIT IS LESS THAN 7/8" FROM THE TOP OF THE ROOF. (INSTALL CONDUIT 7/8" HIGHER ABOVE A ROOFTOP AND USING TYPE XHHW-2 CONDUCTORS)

PROVIDE SLEEPER/SUPPORT AT 8'-0", ON CENTER MINIMUM SPACING AND 3'-0" MINIMUM FROM EACH TERMINATION. PROVIDE REQUIRED TERMINATION JUNCTION BOX AS NECESSARY AND AS REQUIRED BY CODE. VERIFY EXACT CONDUIT QUANTITY IN THE FIELD.

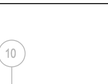


TYPICAL CONDUIT ROOF PENETRATION DETAIL — SCALE: NO SCALE — A

SHEET NOTES

1. DRAWING SHOWS FINAL DESIRED ELECTRICAL LAYOUT WITH NEW LOCATION OF RECEPTACLES, OUTLETS, CONDUIT AND CIRCUITING REQUIREMENTS. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ELECTRICAL DEVICES WITH OTHER SUBCONTRACTORS TO AVOID CONFLICT OF ACCESS TO THE DEVICES.
2. UNLESS OTHERWISE NOTED, ALL EQUIPMENT, DEVICES AND WORK SHOWN ARE NEW.
3. PROVIDE FIRE SEALANT TO ALL CONE DRILL AND CONDUIT ROOF PENETRATION.
4. ALL ROOF MOUNTED ELECTRICAL EQUIPMENTS SUCH AS DISCONNECT SWITCH, MOTOR STARTERS AND ETC, SHALL BE WEATHER PROOF, NEMA-3R ENCLOSURE. VERIFY EXACT LOCATION NOT TO INTERFERE OTHER UTILITIES AND SHALL BE INSTALLED TO MEET CEC/NEC REQUIREMENTS.
5. ALL JUNCTION BOXES SHALL BE SIZED PER NEC TABLE 370-16a.
6. PROVIDE 3/4" CONDUIT WITH CONTROL WIRES TO ALL HVAC EQUIPMENT AND EXTEND AS REQUIRED TO CONTROLLING THERMOSTAT AND CONTROL SWITCH/TIMER FOR EXHAUST FANS, LOCATION PER HVAC PLANS.
7. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CONNECTIONS, REQUIREMENTS, (HP, AMP, FLA, MCA, VOLTAGE, PHASE AND DISCONNECTING MEANS) FOR ALL EQUIPMENTS SUPPLIED BY OTHERS.
8. FOR EXACT LOCATION OF NEW MECHANICAL AND PLUMBING EQUIPMENT, REFER TO HVAC AND PLUMBING PLANS. (SEE PLUMBING AND HVAC PLANS FOR SEQUENCE OF OPERATIONS).
9. FOR FIRE/LIFE SAFETY REQUIREMMENTS, INCLUDING BUT NOT LIMITED TO DUCT DETECTORS SHOWN ON HVAC AND FIRE PROTECTION PLANS, CONTRACTOR SHALL MAKE PROVISIONS FOR CONNECTION OF NEW DEVICES TO BUILDING FIRE LIFE/SAFETY SYSTEM AS OUTLINED ON SHEET E-1.0. (AS-BUILT PACKAGE AND DESIGN BUILD PACKAGE).
10. PROVIDE DISCONNECT SWITCH AND 120V POWER CONNECTION TO MOTORIZED DAMPER, VAV'S AND/OR COMBINATION FIRE SMOKE DAMPER AND CIRCUIT ALL DAMPERS TO 120V. NO MORE THAN 8-VAV'S OR CSFD'S SHALL BE WIRED TO ONE 20A CIRCUIT. PROVIDE 3/4" CONDUIT FROM EACH VAV OR DAMPER LOCATION FOR CONNECTION TO FIRE LIFE SAFETY SYSTEM. REFER TO HVAC PLANS FOR LOCATION AND NUMBER OF DAMPER LOCATIONS REQUIRED. PROVIDE REQUIRED TRANSFORMER AS REQUIRED AND NEEDED. (SEE HVAC DRAWINGS FOR EXACT SEQUENCE OF OPERATIONS).
11. ALL CONDUIT PENETRATION THROUGH FLOOR SHALL BE FIRE SEALED IN COMPLIANCE WITH UL STANDARDS. PROVIDE FIRE SEALANT BY 3M OR EQUAL. COMPLIANCE WITH UL STANDARDS. PROVIDE FIRE SEALANT BY 3M OR EQUAL. SEE DETAIL #1 IN SHEET E-0.4 AND OR PER CEC 300.21 AND CEC 800.26 CODE REQUIREMENTS.
12. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
13. ALL WORKS TO COMPLY WITH THE 2022 CALIFORNIA ELECTRICAL CODE, (2020 NEC).
14. PANEL BOARD CIRCUITRY DIRECTORY SHALL COMPLY WITH SECTION 408.4 OF CALIFORNIA ELECTRICAL CODE.
15. ALL ROOF MOUNTED DISCONNECT SWITCH, MOTOR RATED SWITCH, OUTLETS SHALL BE WEATHERPROOF, NEMA-3R ENCLOSURE, WITH REQUIRED CEC/NEC CODE CLEARANCE REQUIREMENTS AND MEANS OF METHODS OF CONSTRUCTION. ALL CONDUIT PENETRATION SHALL BE PROVIDED WITH COMPLETE MOUNTING STRAPS, SUPPORTS AND SHALL BE RGS TYPE. EXACT LOCATION, EXACT QUANTITY TO BE VERIFY WITH HVAC SCHEDULES AND PLANS. ALL CONDUITS INSTALLED ON ROOFTOPS SHALL COMPLY WITH NEC SECTION 310.15(B)(2)C.
16. CEC 406.9(B) RECEPTACLES OF 15 AND 20 AMPERES IN A WET LOCATION: RECEPTACLES OF 15 AND 20 AMPERES, 125 VOLTS AND 250 VOLTS INSTALLED IN A WET LOCATION SHALL HAVE AN INCLOSURE THAT IS WEATHERPROOF, (WP) AND LISTED/IDENTIFIED AS "EXTRA DUTY". THE RECEPTACLES SHALL BE LISTED AS THE WEATHER RESISTANT, (WR) TYPE AND SHALL BE GFCI PROTECTED PER 210.8(B)(4).
17. PROVIDE AND INSTALL CONDUIT AT LEAST 7/8" MINIMUM OR HIGHER ABOVE A ROOFTOP, OR AN ADDITIONAL 60 DEGREES "F" MUST BE ADDED TO THE AMBIENT TEMPERATURE CORRECTION FACTOR AND PROVIDE XHHW-3 CONDUCTORS PER 2017 NEC SECTION 310.15(B)(3)(c). SEE DETAIL "A", THIS SHEET.

BUILDING 1-WORKSHOP ROOF ELECTRICAL PLAN
1 — 1/8" = 1' 0"



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BUILDING 1-WORKSHOP ROOF ELECTRICAL PLAN

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

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