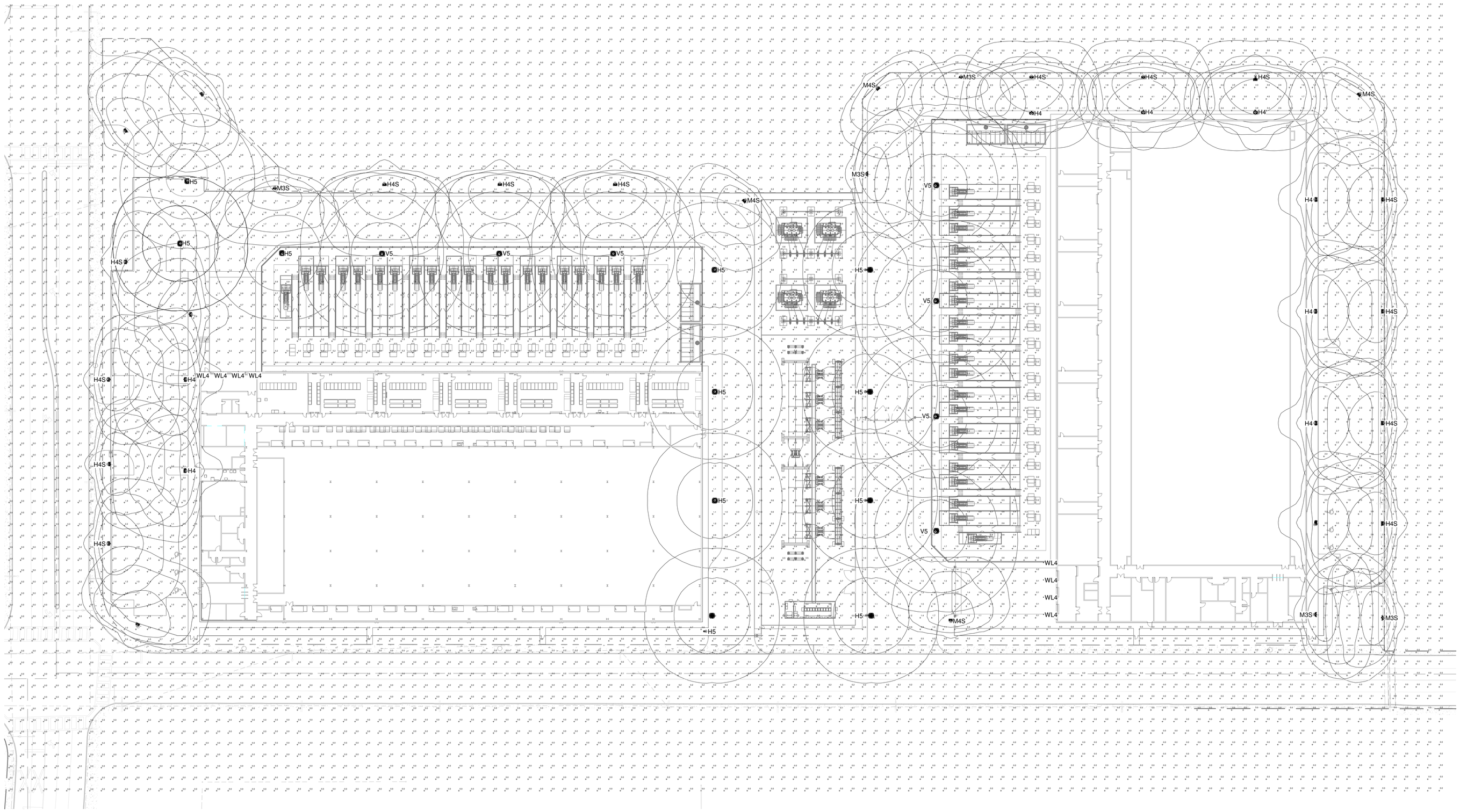
DOCKETED	
Docket Number:	25-SPPE-01
Project Title:	Vernon Backup Generating Facility
TN #:	262030
Document Title:	GIC Vernon LLC VBGF SPPE Application - Appendix A Part II of II
Description:	N/A
Filer:	Scott Galati
Organization:	DayZenLLC
Submitter Role:	Applicant Representative
Submission Date:	2/28/2025 9:41:31 AM
Docketed Date:	2/28/2025



1 SITE LIGHTING PLAN - PHOTOMETRICS
1" = 40'-0"

CALCULATIONS

AREA	MIN (FC)	MAX (FC)	AVERAGE (FC)	AVERAGE TO MIN RATIO
SITE LOOP ROAD	0.2	3.6	1.5	7.5:1
TYPICAL PARKING LOT	0.5	4.0	2.0	4.0:1
WEST EQUIPMENT YARD	0.2	1.8	0.8	4.0:1
EAST EQUIPMENT YARD	0.2	1.6	0.8	4.0:1
WEST LOADING DOCK	0.1	1.6	0.7	7.0:1
EAST LOADING DOCK	0.1	1.3	0.6	6.0:1

GENERAL NOTES

1. ALL DIMENSIONS AND MOUNTING HEIGHTS ARE APPROXIMATE AND SHOWN FOR REFERENCE ONLY.
2. COORDINATE FINAL SITE LIGHT POLE LOCATIONS WITH ALL TRADES PRIOR TO EXCAVATION.
3. WHERE FEASIBLE, CENTER WALLPACKS ON PRECAST PANEL. LOCATIONS SHOWN ARE APPROXIMATE. COORDINATE WITH PRECAST MANUFACTURER FOR PREINSTALLED JUNCTION BOX AT EACH WALLPACK LOCATION.

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	ISSUES	
1	07.24.2024	CONCEPT VERIFICATION
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REVISIONS

kW Mission Critical Engineering
Contact: Phillip Gessler Phone: 920-917-4878

NOT FOR CONSTRUCTION

Date of issue:
11.22.2024

GIC Vernon, LLC

GEP Vernon

BUILDING 1: 3163 East Vernon Avenue
Vernon, California 90058

BUILDING 2: 3049 East Vernon Avenue
Vernon, California 90058

SITE PHOTOMETRIC PLAN - CAMPUS

JOB 37567.7408
DATE 11.22.2024
SHEET
E00-43

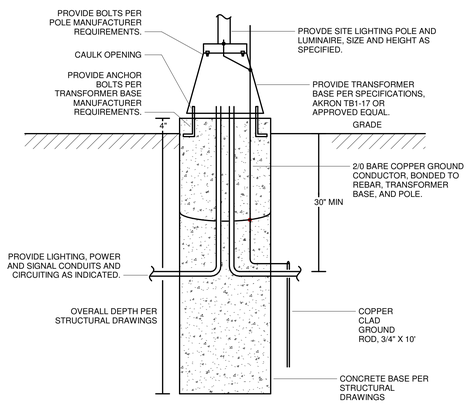
11/22/2024 4:12:05 PM E00-43 SITE PHOTOMETRIC PLAN - CAMPUS

SITE LUMINAIRE SCHEDULE

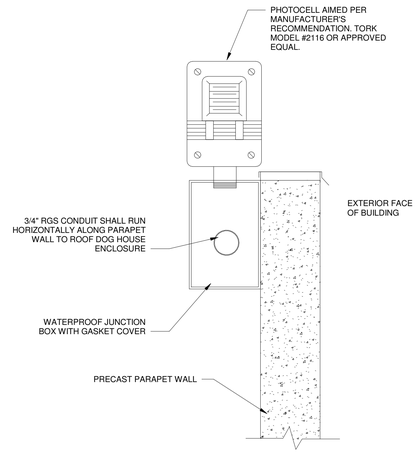
FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	BALLAST / DRIVER	INPUT VOLTAGE	INPUT WATTAGE	MOUNTING	BUG RATING
H4	LITHONIA	RSX1 LED P2 40K R4	FULL CUTOFF LED POLE MOUNT, BLACK POWDER COAT FINISH, TYPE IV DISTRIBUTION	ELECTRONIC LED DRIVER	480V	73W	POLE MOUNTED 24' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED	202
H4S	LITHONIA	RSX1 LED P2 40K R4S EGS	FULL CUTOFF LED POLE MOUNT, BLACK POWDER COAT FINISH, TYPE IV DISTRIBUTION	ELECTRONIC LED DRIVER	480V	73W	POLE MOUNTED 24' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED	202
H5	LITHONIA	RSX1 LED P2 40K R5	FULL CUTOFF LED WALL MOUNT, BLACK POWDER COAT FINISH, TYPE V DISTRIBUTION	ELECTRONIC LED DRIVER	480V	72W	POLE MOUNTED 24' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED	402
M3S	LITHONIA	RSX1 LED P1 40K R3 EGV	FULL CUTOFF LED POLE MOUNT, BLACK POWDER COAT FINISH, TYPE III DISTRIBUTION WITH HOUSING SHIELD	ELECTRONIC LED DRIVER	480V	51W	POLE MOUNTED 24' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED	102
M4S	LITHONIA	RSX1 LED P1 40K R4 EGV	FULL CUTOFF LED POLE MOUNT, BLACK POWDER COAT FINISH, TYPE IV DISTRIBUTION WITH HOUSING SHIELD	ELECTRONIC LED DRIVER	480V	51W	POLE MOUNTED 24' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED	102
V5	LITHONIA	RSX1 LED P4 40K R5	FULL CUTOFF LED WALL MOUNT, BLACK POWDER COAT FINISH, TYPE V DISTRIBUTION	ELECTRONIC LED DRIVER	480V	133W	POLE MOUNTED 24' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED	402
WL4	LITHONIA	DSXW1 LED 20C 700 40K T4 MVOLT	EXTERIOR LED WALL MOUNT	ELECTRONIC LED DRIVER	277	45.7	WALL MOUNTED 24' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED	

SITE LUMINAIRE SCHEDULE NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LIGHT FIXTURES AND CONTROL DEVICES.



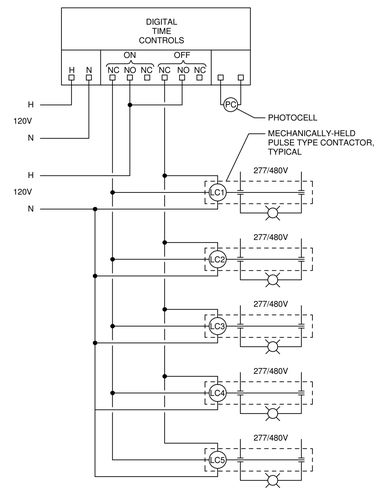
3 SITE LIGHTING POLE BASE DETAIL
N.T.S.



NOTES:

1. PHOTOCELL(S) SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS DETAIL UNLESS OTHER MOUNTING ARRANGEMENTS ARE SHOWN ON THE DRAWINGS OR ARE REQUIRED BY THE MANUFACTURER.

2 PHOTOCELL MOUNTING
N.T.S.



NOTES:

1. PHOTOCELL SHALL BE LOCATED ON THE ROOF. SEE PHOTOCELL MOUNTING DETAIL.

1 EXTERIOR LIGHTING CONTROL DIAGRAM
N.T.S.

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	ISSUES	
1	07.24.2024	CONCEPT VERIFICATION
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REVISIONS

kW Mission Critical Engineering
Contact: Phillip Gessler Phone: 920-917-4878

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SITE LIGHTING DETAILS

JOB 37567.7408
DATE 11.22.2024
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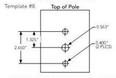
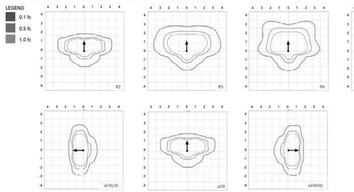
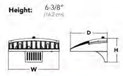
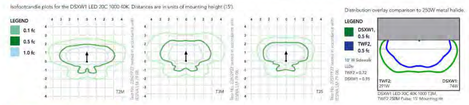
E00-44

11/22/2024 4:12:09 PM E00-44 SITE LIGHTING DETAILS









RSX1 LED
Area Luminaire

Catalog Number
Notes
Type

Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX1 delivers 7,000 to 17,000 lumens allowing it to replace 70W to 400W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfitter and other mounting configurations are available.

Specifications

EPA (ft²@0°):	0.57 ft² (0.05 m²)
Length:	21.8" (55.4 cm) (SPA mount)
Width:	13.3" (33.8 cm)
Height:	3.0" (7.6 cm) Main Body 7.2" (18.4 cm) Arm
Weight: (SPA mount):	22.0 lbs (10.0 kg)

Ordering Information

EXAMPLE: RSX1 LED P4 40K R3 MVOLT SPA DDBXD

Ordering Information
External Shields
House Side Shield
External Glare Shield
External 360 Full Visor
Pole/Mounting Information

Photometric Diagrams
Performance Data

Performance Data

D-Series Size 1
LED Wall Luminaire

Catalog Number
Notes
Type

Specifications
Luminaire

Width:	13-3/4" (34.9 cm)	Weight:	12 lbs (5.4 kg)
Depth:	10" (25.4 cm)		
Height:	6-3/8" (16.2 cm)		

Back Box (BBW, ELCW)

Width:	13-3/4" (34.9 cm)	BBW Weight:	5 lbs (2.3 kg)
Depth:	4" (10.2 cm)	ELCW Weight:	10 lbs (4.5 kg)
Height:	6-3/8" (16.2 cm)		

For 3/4" NPT side-entry conduit (BBW only)

Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

Performance Data
Photometric Diagrams
Options and Accessories
FEATURES & SPECIFICATIONS

Performance Data

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○	ISSUES	
1	07.24.2024	CONCEPT VERIFICATION
2	11.22.2024	SCHEMATIC DESIGN

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kW Mission Critical Engineering
Contact: Phillip Gessler Phone: 920-917-4878

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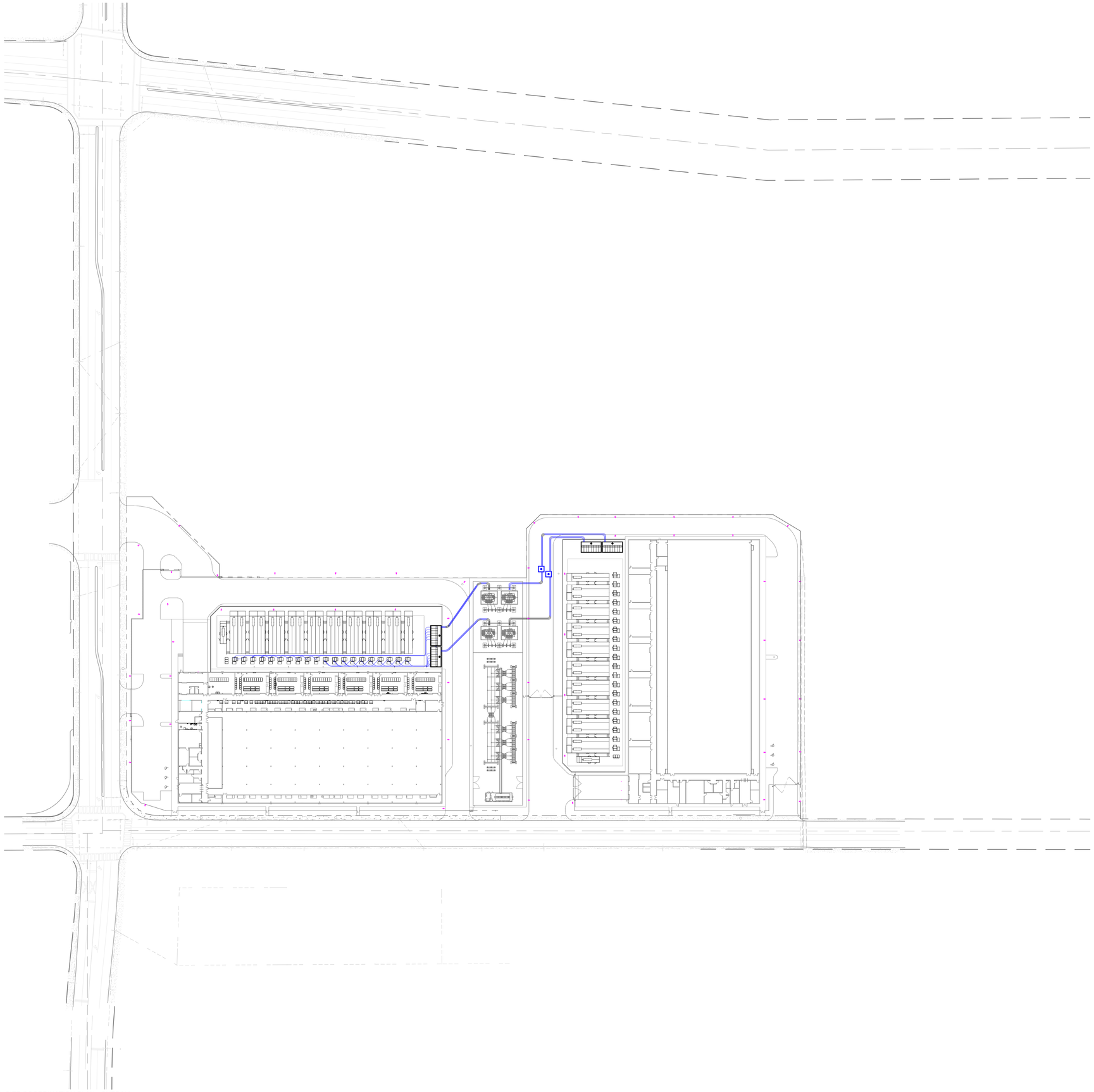
SITE LIGHTING FIXTURE CUTSHEETS

JOB 37567.7408
DATE 11.22.2024
SHEET
E00-45



1 SITE COORDINATION PLAN - OVERALL
1/64" = 1'-0"

GENERAL NOTES

1. REFER TO E02-00 SERIES DRAWINGS FOR ADDITIONAL DETAIL AT EQUIPMENT YARDS AND WITHIN BUILDING FOOTPRINT.
2. REFER TO ENLARGED SITE PLANS AND ONE-LINE DIAGRAMS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
3. COORDINATE EXACT ROUTING AND BURIAL DEPTH OF DUCTBANKS TO AVOID CONFLICTS WITH OTHER UTILITIES. CONTRACTOR SHALL DEVELOP AND SUBMIT PLAN AND PROFILE FOR DUCTBANKS BASED UPON CROSSING REQUIREMENTS INDICATED HERE, GENERALLY MAINTAINING 2'-6" MINIMUM COVER OVER DUCTBANKS AND SLOPING TO DRAIN WHEREVER FEASIBLE. FINAL ROUTING AND COORDINATION IS DEFERRED DESIGN BY THE CONTRACTOR.
4. VERIFY ALL EQUIPMENT LOCATIONS AND NAMEPLATE RATINGS FOR ALL OTHER TRADES EQUIPMENT PRIOR TO START OF ANY INSTALLATIONS.
5. PROVIDE ALL POWER CONDUITS AND WIRING TO ABOVE MENTIONED EQUIPMENT AS REQUIRED.
6. WHERE TELECOM AND POWER DUCTBANK INTERSECT, INSTALL TELECOM DUCTBANK BELOW POWER DUCTBANK.
7. ALL EXISTING UNDERGROUND UTILITIES SHALL BE LOCATED PRIOR TO ANY EXCAVATION WORK TAKING PLACE. COORDINATE MARKING WITH "CALL BEFORE YOU DIG" CALL LINE (811). PERFORM CAREFUL EXCAVATION IN AREAS IN PROXIMITY TO EXISTING BURIED UTILITIES TO CONFIRM ALL LOCATIONS PRIOR TO BEGINNING ANY MACHINE EXCAVATION.
8. ROUTING SHOWN ON DESIGN DRAWINGS IS TO CONVEY INTENT ONLY. FINAL DESIGN IS DELEGATED TO THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL RACEWAYS WITH OTHER TRADES AND PROVIDE SHOP DRAWINGS FOR ENGINEER REVIEW AND APPROVAL PRIOR TO INSTALLATION.
9. CONTRACTOR SHALL COORDINATE ALL ROUTING SUCH THAT THE RACEWAY ENTERS THE EQUIPMENT IN THE SAME SECTION IN WHICH THE ASSOCIATED CABLES TERMINATE.

KEYED NOTES

LEGEND

SITE POWER	
SITE LIGHTING	
SITE TELECOM	

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ELECTRICAL SITE COORDINATION PLAN

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DATE 11.22.2024
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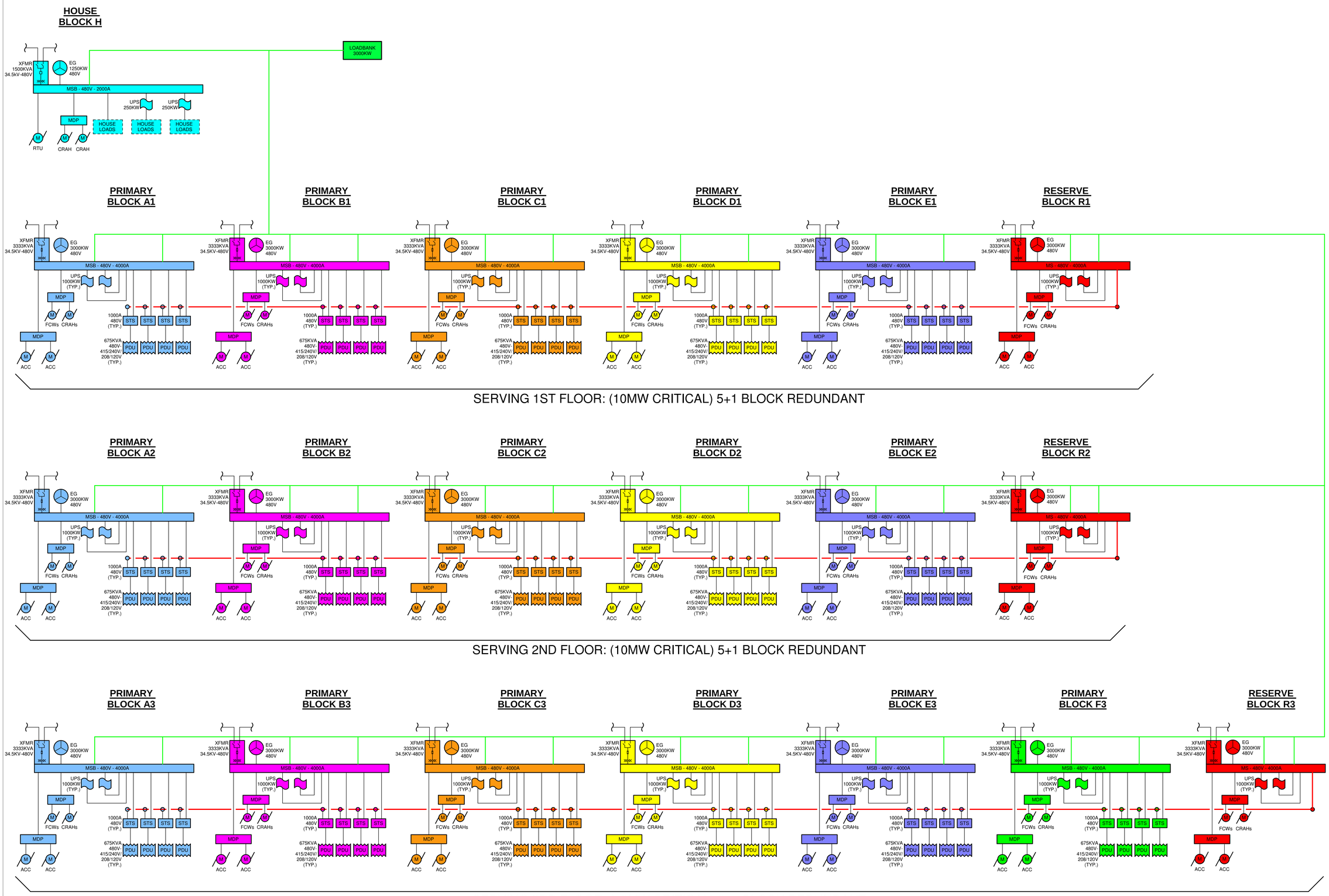
E00-51

11/22/2024 4:12:23 PM E00-51 ELECTRICAL SITE COORDINATION PLAN



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ELECTRICAL BLOCK DIAGRAM

JOB 37567.7408
DATE 11.22.2024
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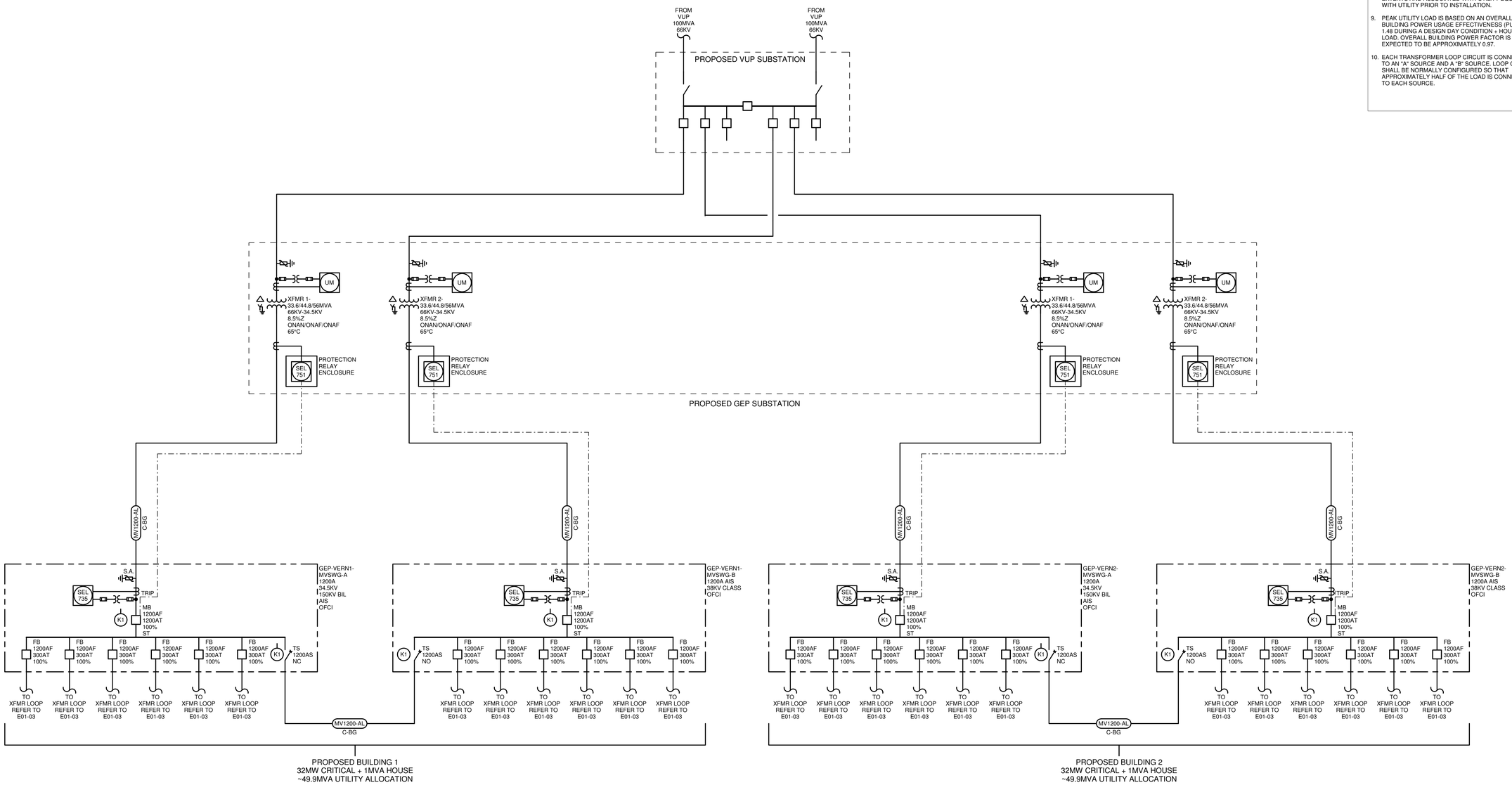
E01-01

11/22/2024 4:12:24 PM E01-01 ELECTRICAL BLOCK DIAGRAM



GENERAL NOTES

1. REFER TO E00-01 FOR LINE TYPE LEGEND.
2. REFER TO THE E02-00 SERIES DRAWINGS FOR EQUIPMENT LOCATIONS.
3. ALL CIRCUIT BREAKERS ARE 3P, 100% RATED WITH LSI TRIP UNITS UNLESS NOTED OTHERWISE.
4. ALL EQUIPMENT IN PREPURCHASE MATRIX IS FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. ALL MATERIALS (CABLE, RACEWAY, ETC.) REQUIRED FOR INSTALLATION AND CONNECTION OF PRE-PURCHASED EQUIPMENT IS BY CONTRACTOR UNLESS OTHERWISE NOTED. ANY EQUIPMENT NOT IN THE MATRIX AND NOT SPECIFICALLY CALLED OUT AS BEING OWNER FURNISHED SHALL BE FURNISHED AND INSTALLED COMPLETE BY THE CONTRACTOR.
5. ENGINEER SHALL PROVIDE ELECTRICAL CONTRACTOR A SPREADSHEET PRIOR TO COMMISSIONING WITH A LIST OF ALL THE CIRCUIT BREAKER TYPES AND PLUGS USED TO CONSTRUCT THE MODEL FOR THE COORDINATION STUDY. ELECTRICAL CONTRACTOR SHALL TAKE SPREADSHEET INTO THE FIELD AND VERIFY EACH BREAKER IN SHEET MATCHES WHAT IS INSTALLED. PROVIDE LIST OF DISCREPANCIES, IF ANY, TO THE ENGINEER WITHIN 3 WORKING DAYS OF RECEIPT OF DOCUMENT.
6. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE SET OF AS-BUILT FEEDER CONFIGURATIONS AND LENGTHS TO THE ENGINEER FOR USE IN THE SHORT CIRCUIT AND ARC-FLASH STUDIES. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
7. REFER TO DRAWING E01-51 FOR OWNER-FURNISHED EQUIPMENT SCHEDULE AND FEEDER SCHEDULES.
8. COORDINATE ALL SCOPE WITHIN SUBSTATION EXTENTS AND ASSOCIATED WITH UTILITY EQUIPMENT WITH UTILITY PRIOR TO INSTALLATION.
9. PEAK UTILITY LOAD IS BASED ON AN OVERALL BUILDING POWER USAGE EFFECTIVENESS (PUE) OF 1.48 DURING A DESIGN DAY CONDITION + HOUSE LOAD. OVERALL BUILDING POWER FACTOR IS EXPECTED TO BE APPROXIMATELY 0.97.
10. EACH TRANSFORMER LOOP CIRCUIT IS CONNECTED TO AN "A" SOURCE AND A "B" SOURCE. LOOP CIRCUITS SHALL BE NORMALLY CONFIGURED SO THAT APPROXIMATELY HALF OF THE LOAD IS CONNECTED TO EACH SOURCE.

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ONE-LINE DIAGRAM - MV - CAMPUS

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DATE 11.22.2024
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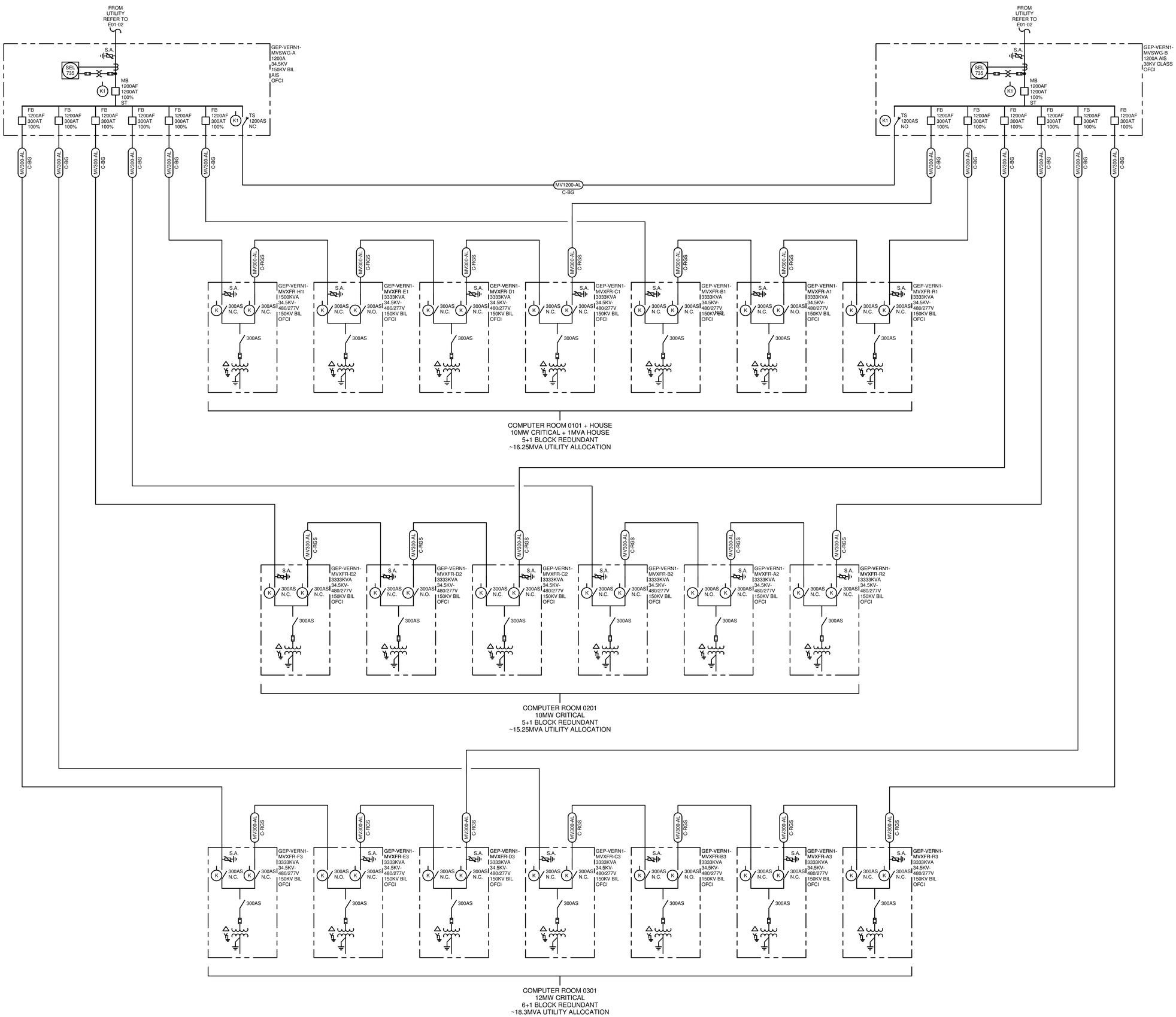
11/22/2024 4:12:25 PM E01-02 ONE-LINE DIAGRAM - MV - CAMPUS

PROPOSED / PRELIMINARY - SHOWN FOR REFERENCE ONLY



GENERAL NOTES

1. REFER TO E00-01 FOR LINE TYPE LEGEND.
2. REFER TO THE E02-xx SERIES DRAWINGS FOR EQUIPMENT LOCATIONS.
3. ALL CIRCUIT BREAKERS ARE 3P, 80% RATED WITH LSI TRIP UNITS UNLESS NOTED OTHERWISE.
4. ALL EQUIPMENT IN PREPURCHASE MATRIX IS FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. ALL MATERIALS (CABLE, RACEWAY, ETC.) REQUIRED FOR INSTALLATION AND CONNECTION OF PRE-PURCHASED EQUIPMENT IS BY CONTRACTOR UNLESS OTHERWISE NOTED. ANY EQUIPMENT NOT IN THE MATRIX AND NOT SPECIFICALLY CALLED OUT AS BEING OWNER FURNISHED SHALL BE FURNISHED AND INSTALLED COMPLETE BY THE CONTRACTOR.
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6. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE SET OF AS-BUILT FEEDER CONFIGURATIONS AND LENGTHS TO THE ENGINEER FOR USE IN THE SHORT CIRCUIT AND ARC-FLASH STUDIES. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
7. REFER TO DRAWING E01-51 FOR OWNER-FURNISHED EQUIPMENT SCHEDULE AND FEEDER SCHEDULES.
8. COORDINATE ALL SCOPE WITHIN SUBSTATION EXTENTS AND ASSOCIATED WITH UTILITY EQUIPMENT WITH UTILITY PRIOR TO INSTALLATION.

FEEDER LEGEND

INDICATES CONDUCTOR MATERIAL — CU
INDICATES 3 OR 4 WIRE — 3
INDICATES AMPACITY — 100
CONDUCTOR CONVEYANCE — C-AG

MATERIAL LEGEND:

AL ALUMINUM
CU COPPER

NOTES:

1. ALL MV FEEDERS ARE 3 WIRE UON

CONVEYANCE LEGEND:

C-AG ABOVE GRADE CONDUIT
C-BG BELOW GRADE CONDUIT
C-RGS ABOVE GRADE CONDUIT - RIGID GALVANIZED STEEL
CBUS CABLEBUS
MC METAL CLAD CABLE
CT CABLE TRAY
BUS BUSWAY / BUSDUCT

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ONE-LINE DIAGRAM - MV - TYPICAL BUILDING

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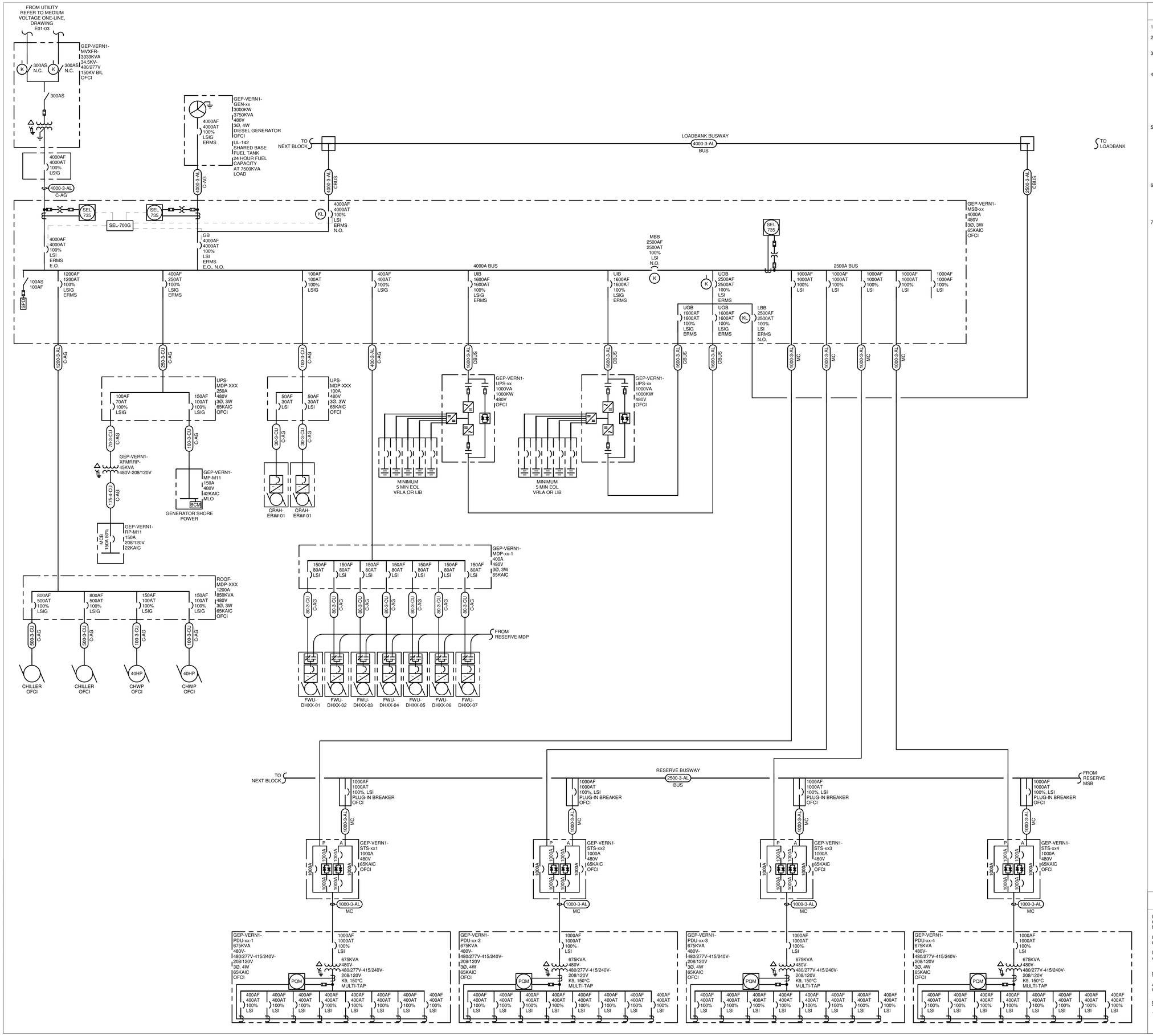
DATE 11.22.2024
SHEET E01-03

11/22/2024 4:12:30 PM E01-03 ONE-LINE DIAGRAM - MV - TYPICAL BUILDING



GENERAL NOTES

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2. REFER TO THE E02-xx SERIES DRAWINGS FOR EQUIPMENT LOCATIONS.
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4. ALL EQUIPMENT IN PREPURCHASE MATRIX IS FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. ALL MATERIALS (CABLE, RACEWAY, ETC.) REQUIRED FOR INSTALLATION AND CONNECTION OF PRE-PURCHASED EQUIPMENT IS BY CONTRACTOR UNLESS OTHERWISE NOTED. ANY EQUIPMENT NOT IN THE MATRIX AND NOT SPECIFICALLY CALLED OUT AS BEING OWNER FURNISHED SHALL BE FURNISHED AND INSTALLED COMPLETE BY THE CONTRACTOR.
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7. REFER TO DRAWING E01-51 FOR OWNER-FURNISHED EQUIPMENT SCHEDULE AND FEEDER SCHEDULES.

FEEDER LEGEND

INDICATES CONDUCTOR MATERIAL — INDICATES 3 OR 4 WIRE — INDICATES AMPACITY — 100-3-CU C-AG — CONDUCTOR CONVEYANCE

MATERIAL LEGEND:

AL ALUMINUM
CU COPPER

NOTES:

1. ALL MV FEEDERS ARE 3 WIRE UON

CONVEYANCE LEGEND:

C-AG	ABOVE GRADE CONDUIT
C-BG	BELOW GRADE CONDUIT
C-RGS	ABOVE GRADE CONDUIT - RIGID GALVANIZED STEEL
CBUS	CABLEBUS
MC	METAL CLAD CABLE
CT	CABLE TRAY
BUS	BUSWAY / BUSDUCT

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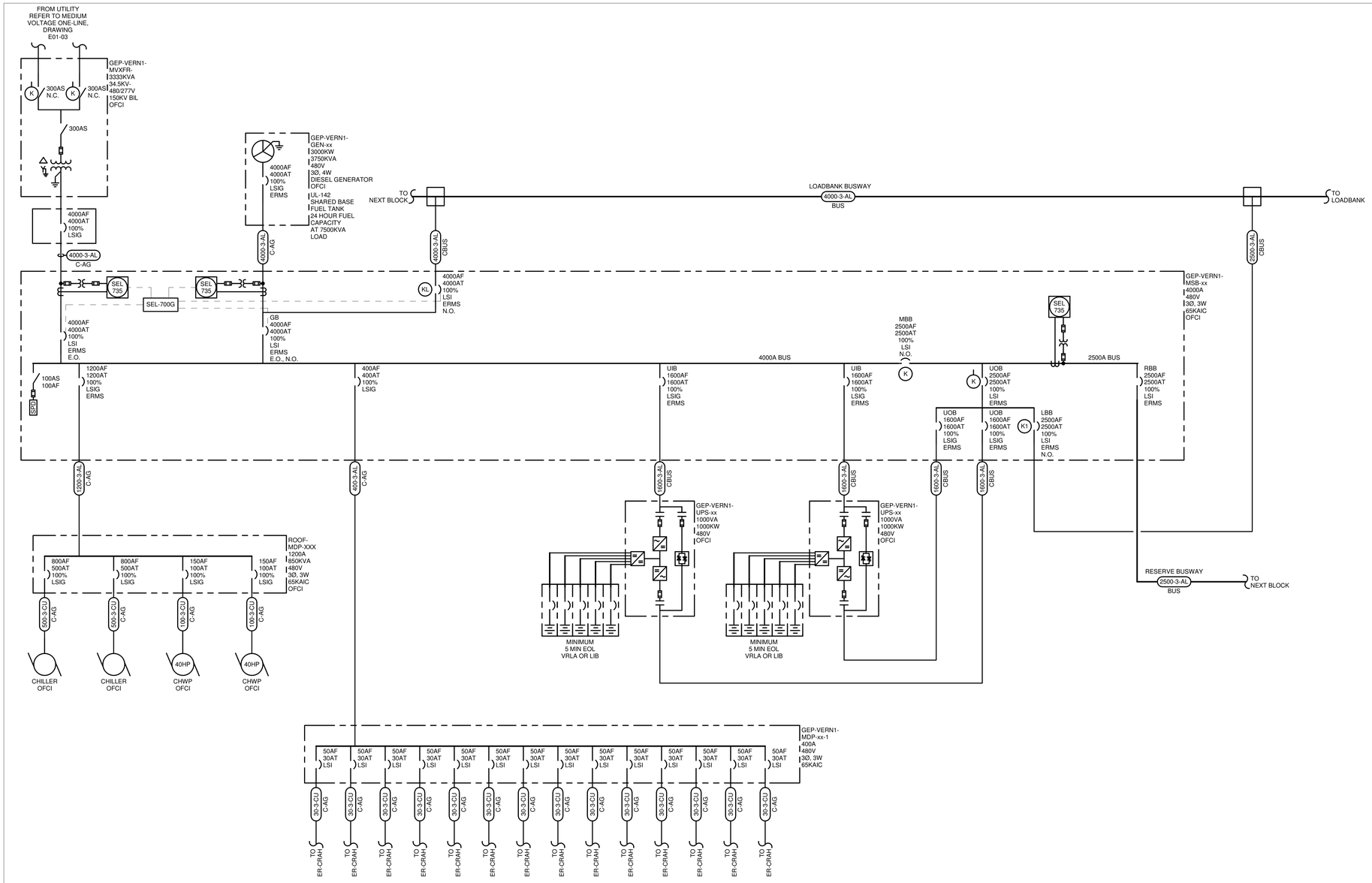
BUILDING 1: 3163 East Vernon Avenue Vernon, California 90058
BUILDING 2: 3049 East Vernon Avenue Vernon, California 90058

ONE-LINE DIAGRAM - TYPICAL PRIMARY BLOCK

JOB 37567.7408
DATE 11.22.2024
SHEET E01-11A1

11/22/2024 4:12:31 PM E01-11A1ONE-LINE DIAGRAM - TYPICAL PRIMARY BLOCK



GENERAL NOTES

1. REFER TO E00-01 FOR LINE TYPE LEGEND.
2. REFER TO THE E02-xx SERIES DRAWINGS FOR EQUIPMENT LOCATIONS.
3. ALL CIRCUIT BREAKERS ARE 3P, 80% RATED WITH THERMAL MAGNETIC TRIP UNITS UNLESS OTHERWISE NOTED.
4. ALL EQUIPMENT IN PREPURCHASE MATRIX IS FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. ALL MATERIALS (CABLE, RACEWAY, ETC.) REQUIRED FOR INSTALLATION AND CONNECTION OF PRE-PURCHASED EQUIPMENT IS BY CONTRACTOR UNLESS OTHERWISE NOTED. ANY EQUIPMENT NOT IN THE MATRIX AND NOT SPECIFICALLY CALLED OUT AS BEING OWNER FURNISHED SHALL BE FURNISHED AND INSTALLED COMPLETE BY THE CONTRACTOR.
5. ENGINEER SHALL PROVIDE ELECTRICAL CONTRACTOR A SPREADSHEET PRIOR TO COMMISSIONING WITH A LIST OF ALL THE CIRCUIT BREAKER TYPES AND PLUGS USED TO CONSTRUCT THE MODEL FOR THE COORDINATION STUDY. ELECTRICAL CONTRACTOR SHALL TAKE SPREADSHEET INTO THE FIELD AND VERIFY EACH BREAKER IN SHEET MATCHES WHAT IS INSTALLED. PROVIDE LIST OF DISCREPANCIES, IF ANY, TO THE ENGINEER WITHIN 3 WORKING DAYS OF RECEIPT OF DOCUMENT.
6. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE SET OF AS-BUILT FEEDER CONFIGURATIONS AND LENGTHS TO THE ENGINEER FOR USE IN THE SHORT CIRCUIT AND ARC-FLASH STUDIES. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
7. REFER TO DRAWING E01-51 FOR OWNER-FURNISHED EQUIPMENT SCHEDULE AND FEEDER SCHEDULES.

FEEDER LEGEND

INDICATES CONDUCTOR MATERIAL
INDICATES 3 OR 4 WIRE
INDICATES AMPACITY
100-3-CU C-AG
CONDUCTOR CONVEYANCE

MATERIAL LEGEND:

AL ALUMINUM
CU COPPER

NOTES:

1. ALL MV FEEDERS ARE 3 WIRE UON

CONVEYANCE LEGEND:

C-AG	ABOVE GRADE CONDUIT
C-BG	BELOW GRADE CONDUIT
C-RGS	ABOVE GRADE CONDUIT - RIGID GALVANIZED STEEL
CBUS	CABLEBUS
MC	METAL CLAD CABLE
CT	CABLE TRAY
BUS	BUSWAY / BUSDUCT

CORGAN
kW Mission Critical Engineering Member of WSP
LANGAN
PASE

ISSUES

1	07.24.2024	CONCEPT VERIFICATION
2	11.22.2024	SCHEMATIC DESIGN

REVISIONS

kW Mission Critical Engineering
Contact: Phillip Gessler Phone: 920-917-4878

NOT FOR CONSTRUCTION

Date of issue:
11.22.2024

GIC Vernon, LLC

GEP Vernon

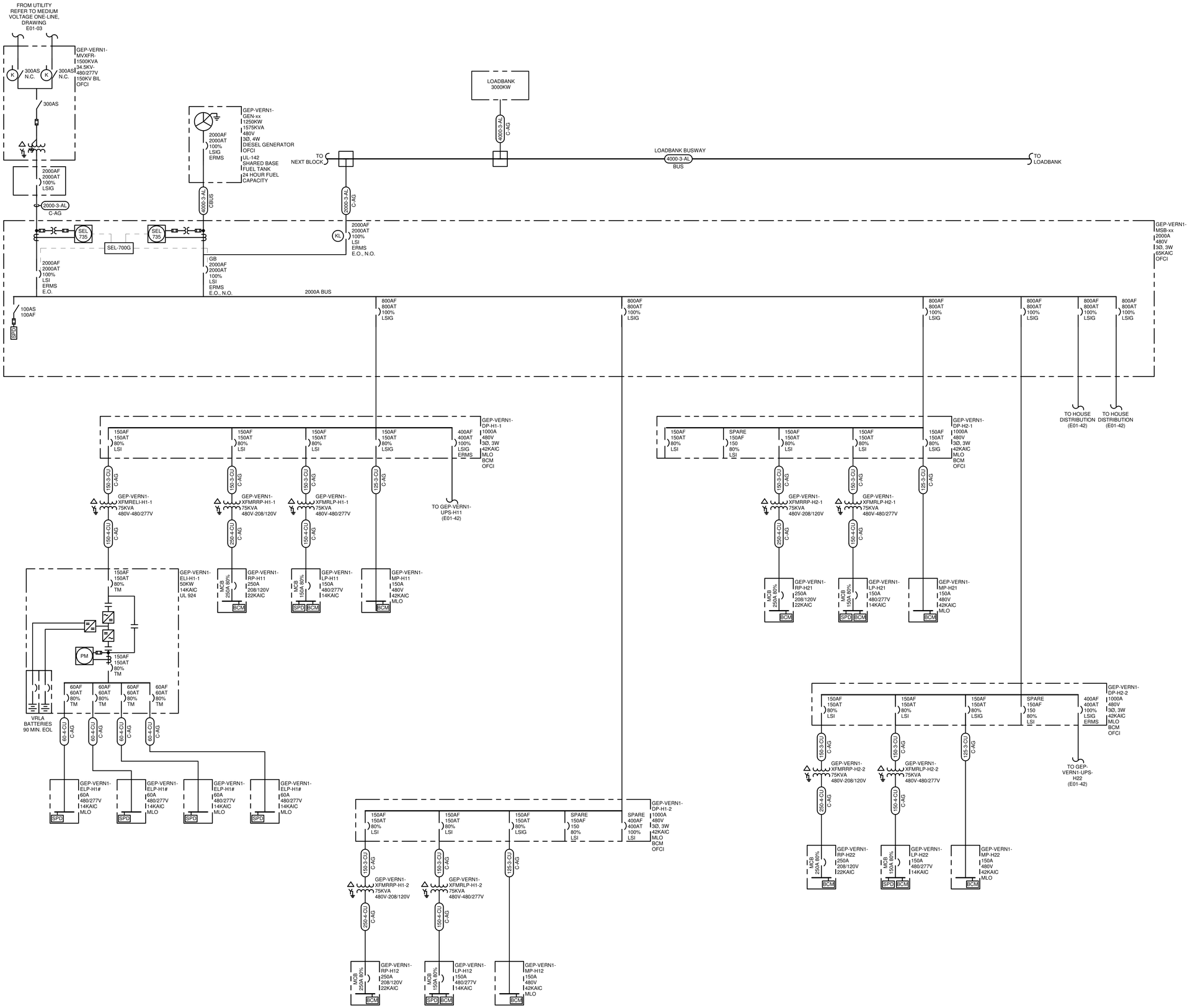
BUILDING 1: 3163 East Vernon Avenue
Vernon, California 90058

BUILDING 2: 3049 East Vernon Avenue
Vernon, California 90058

ONE-LINE DIAGRAM - TYPICAL RESERVE BLOCK

JOB	37567.7408
DATE	11.22.2024
SHEET	E01-11R1

11/22/2024 4:12:32 PM E01-11R ONE-LINE DIAGRAM - TYPICAL RESERVE BLOCK



GENERAL NOTES

1. REFER TO E00-01 FOR LINE TYPE LEGEND.
2. REFER TO THE E02-xx SERIES DRAWINGS FOR EQUIPMENT LOCATIONS.
3. ALL CIRCUIT BREAKERS ARE 3P, 80% RATED WITH THERMAL MAGNETIC TRIP UNITS UNLESS OTHERWISE NOTED.
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7. REFER TO DRAWING E01-51 FOR OWNER-FURNISHED EQUIPMENT SCHEDULE AND FEEDER SCHEDULES.

FEEDER LEGEND

INDICATES CONDUCTOR MATERIAL — 150-3-CU C-AG — CONDUCTOR CONVEYANCE
INDICATES 3 OR 4 WIRE
INDICATES AMPACITY

MATERIAL LEGEND:

AL ALUMINUM
CU COPPER

NOTES:

1. ALL MV FEEDERS ARE 3 WIRE UON

CONVEYANCE LEGEND:

C-AG	ABOVE GRADE CONDUIT
C-BG	BELOW GRADE CONDUIT
C-RGS	ABOVE GRADE CONDUIT - RIGID GALVANIZED STEEL
CBUS	CABLEBUS
MC	METAL CLAD CABLE
CT	CABLE TRAY
BUS	BUSWAY / BUSDUCT

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ISSUES

1	07.24.2024	CONCEPT VERIFICATION
2	11.22.2024	SCHEMATIC DESIGN

REVISIONS

kW Mission Critical Engineering
Contact: Phillip Gessler Phone: 920-917-4878

NOT FOR CONSTRUCTION

Date of issue:
11.22.2024

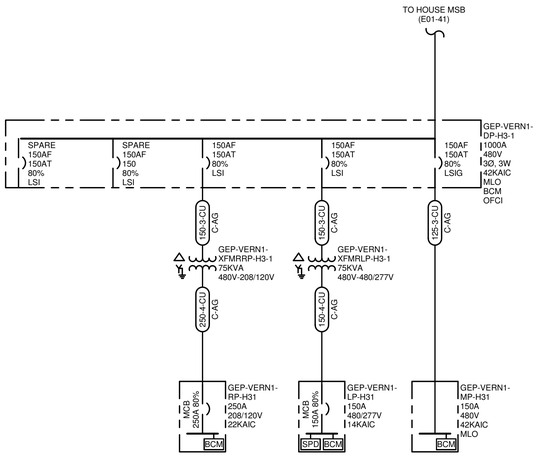
GIC Vernon, LLC

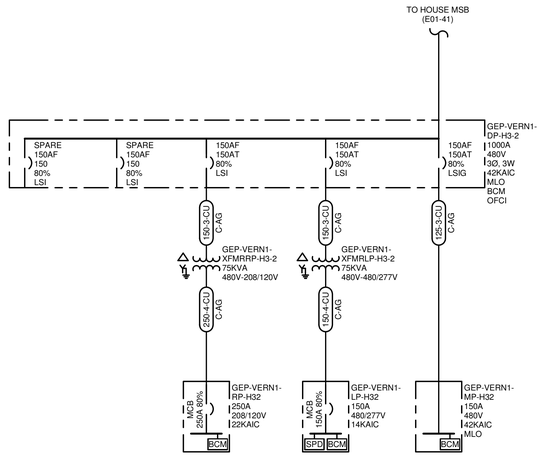
GEP Vernon
BUILDING 1: 3163 East Vernon Avenue Vernon, California 90058
BUILDING 2: 3049 East Vernon Avenue Vernon, California 90058

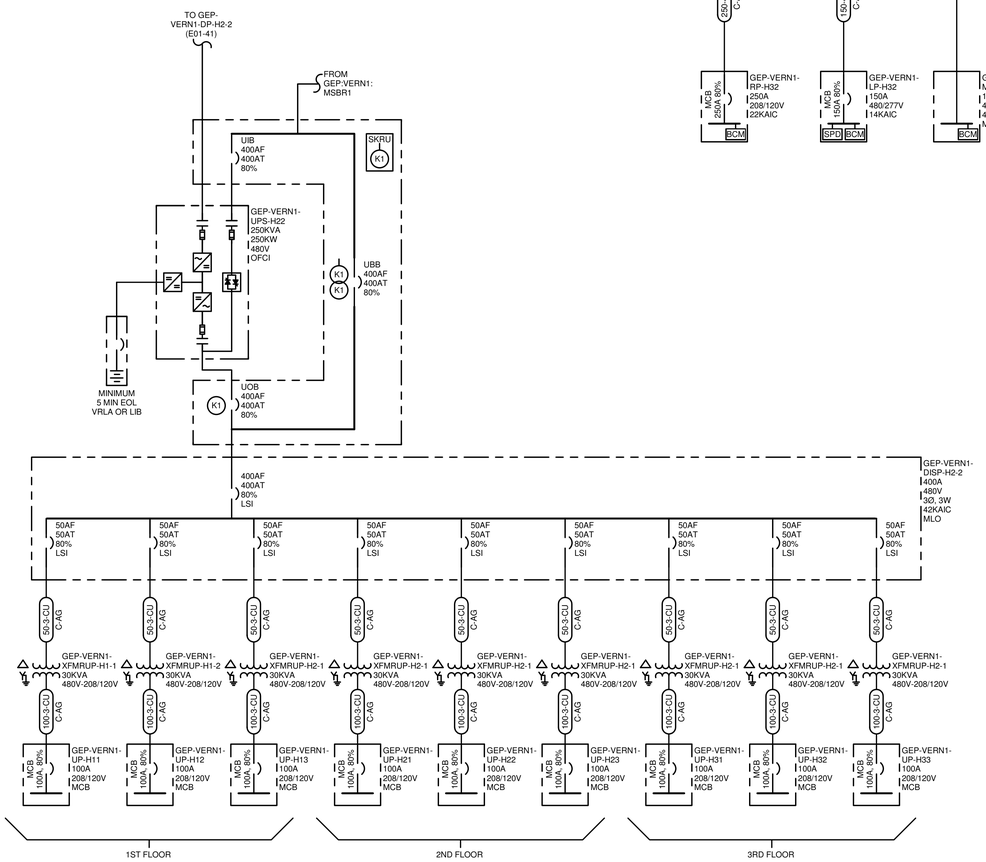
ONE-LINE DIAGRAM - HOUSE - LEVEL ONE & TWO

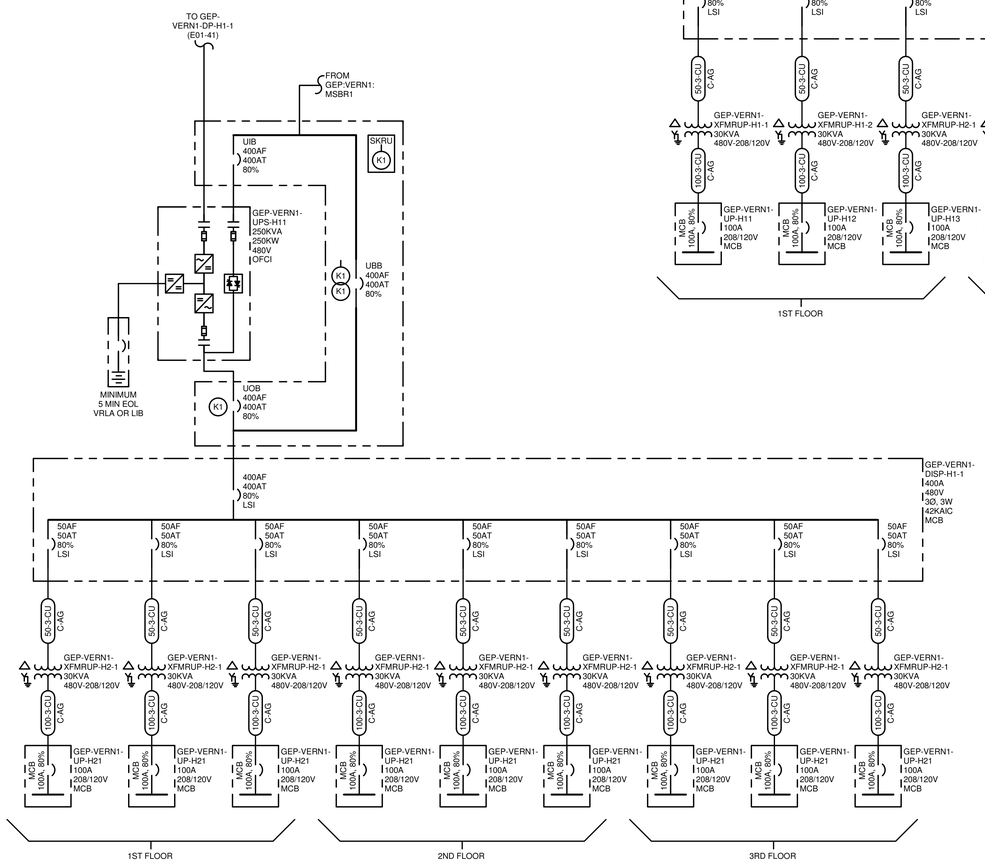
JOB 37567.7408
DATE 11.22.2024
SHEET E01-41

11/22/2024 4:12:32 PM E01-41 ONE-LINE DIAGRAM - HOUSE - LEVEL ONE & TWO









GENERAL NOTES

1. REFER TO E00-01 FOR LINE TYPE LEGEND.
2. REFER TO THE E02-xx SERIES DRAWINGS FOR EQUIPMENT LOCATIONS.
3. ALL CIRCUIT BREAKERS ARE 3P, 80% RATED WITH THERMAL MAGNETIC TRIP UNITS UNLESS OTHERWISE NOTED.
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7. REFER TO DRAWING E01-51 FOR OWNER-FURNISHED EQUIPMENT SCHEDULE AND FEEDER SCHEDULES.

FEEDER LEGEND

INDICATES CONDUCTOR MATERIAL
INDICATES 3 OR 4 WIRE
INDICATES AMPACITY
100-3-CU
C-AG
CONDUCTOR CONVEYANCE

MATERIAL LEGEND:

AL ALUMINUM
CU COPPER

NOTES:

1. ALL MV FEEDERS ARE 3 WIRE UON

CONVEYANCE LEGEND:

C-AG	ABOVE GRADE CONDUIT
C-BG	BELOW GRADE CONDUIT
C-RGS	ABOVE GRADE CONDUIT - RIGID GALVANIZED STEEL
CBUS	CABLEBUS
MC	METAL CLAD CABLE
CT	CABLE TRAY
BUS	BUSWAY / BUSDUCT

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ISSUES

1	07.24.2024	CONCEPT VERIFICATION
2	11.22.2024	SCHEMATIC DESIGN

REVISIONS

kW Mission Critical Engineering
Contact: Phillip Gessler Phone: 920-917-4878

NOT FOR CONSTRUCTION

Date of issue:
11.22.2024

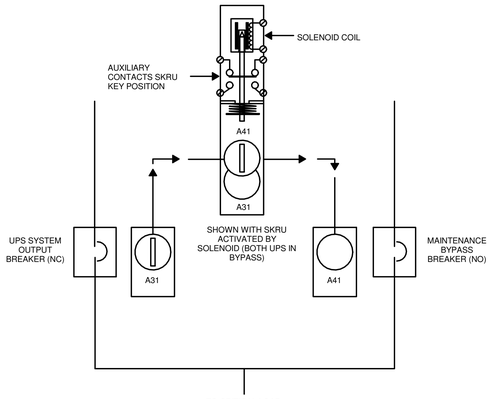
GIC Vernon, LLC

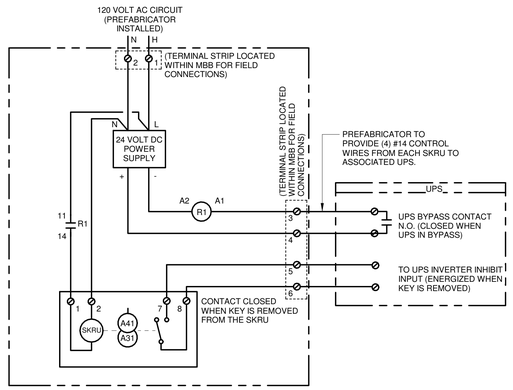
GEP Vernon
BUILDING 1: 3163 East Vernon Avenue
Vernon, California 90058
BUILDING 2: 3049 East Vernon Avenue
Vernon, California 90058

ONE-LINE DIAGRAM - HOUSE - LEVEL THREE

JOB 37567.7408
DATE 11.22.2024
SHEET E01-42

11/22/2024 4:12:37 PM E01-42 ONE-LINE DIAGRAM - HOUSE - LEVEL THREE





SEQUENCE OF OPERATIONS FOR UPS MAINTENANCE BYPASS:

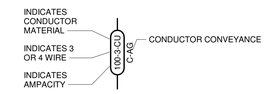
1. MANUALLY START GENERATOR FOR RESPECTIVE BLOCK. VERIFY GENERATOR SYSTEM IS STABLE.
2. AT MAIN SWITCHBOARD, PERFORM MANUAL TRANSFER FROM UTILITY TO GENERATOR POWER.
3. PUT UPS INTO INTERNAL BYPASS MODE. (UPS DISPLAY STATES "LOAD ON BYP")
4. AT SKRU, VERIFY LIGHT IS ILLUMINATED AT SKRU.
5. PUSH BUTTON AND REMOVE KEY (A41) FROM SKRU AND INSERT KEY INTO MAINTENANCE BYPASS BREAKER. (AFTER 20 - 30 SECONDS, THE SKRU NOW INHIBITS UPS FROM OPERATING ON INVERTER).
6. UNLOCK AND CLOSE MAINTENANCE BYPASS BREAKER.
7. OPEN UPS OUTPUT BREAKER. TURN KEY (A31) TO LOCK BREAKER AND REMOVE KEY.
8. INSERT KEY (A31) INTO SKRU AND TURN.
9. DE-ENERGIZE UPS: OPEN ALL UPS BATTERY BREAKERS AND THEN OPEN UPS INPUT BREAKER AT MAIN SWITCHBOARD.
10. UPS IS NOW ISOLATED AND AVAILABLE FOR MAINTENANCE. GENERATOR RUNS DURING MAINTENANCE.

SEQUENCE OF OPERATIONS FOR PLACING UPS SYSTEM BACK ON LINE:

1. VERIFY GENERATOR IS STILL OPERATING NORMALLY AND STABLE.
2. OPEN ALL UPS BATTERY BREAKERS.
3. OPEN UPS OUTPUT BREAKER.
4. PUT UPS INTO INTERNAL BYPASS MODE AND VERIFY LIGHT AT SKRU IS ILLUMINATED.
5. REMOVE KEY (A31) AT SKRU AND INSERT INTO UPS OUTPUT BREAKER.
6. UNLOCK AND CLOSE UPS OUTPUT BREAKER.
7. OPEN MAINTENANCE BYPASS BREAKER AND REMOVE KEY (A41) AND INSERT INTO SKRU.
8. CLOSE ALL UPS BATTERY BREAKERS.
9. AT UPS, REMOVE FROM INTERNAL BYPASS.
10. AT MAIN SWITCHBOARD, PERFORM MANUAL TRANSFER FROM GENERATOR TO UTILITY AND RESTORE ATS TO AUTO OPERATION.
11. PLACE GENERATOR CONTROLLER IN AUTO OPERATION. GENERATOR WILL COOL DOWN AND BE RESTORED TO STANDBY MODE.
12. SYSTEM HAS NOW BEEN RESTORED TO NORMAL OPERATING MODE.

2 SKRU-SEQUENCE OF OPERATIONS
N.T.S.

FEEDER LEGEND



MATERIAL LEGEND:

AL ALUMINUM
CU COPPER

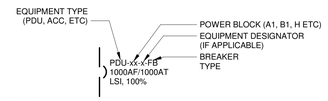
NOTES:

1. ALL MV FEEDERS ARE 3 WIRE UON

CONVEYANCE LEGEND:

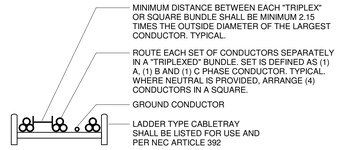
C-AG ABOVE GRADE CONDUIT
C-BG BELOW GRADE CONDUIT
C-RGS ABOVE GRADE CONDUIT - RIGID GALVANIZED STEEL
CBUS CABLEBUS
MC METAL CLAD CABLE
CT CABLE TRAY
BUS BUSWAY / BUSDUCT

BREAKER LABELING LEGEND



BREAKER LABELING NOTES:

1. FOR PHYSICAL BREAKER LABELS, SITE CODE "CHI6" IS NOT REQUIRED.
2. REFER TO PANEL SCHEDULES FOR BREAKER LABELS NOT INDICATED ON ONE-LINE DIAGRAMS.
3. BREAKER TYPES:
   - A. "FB" - FEEDER BREAKER
   - B. "PFB" - PRIMARY FEEDER BREAKER
   - C. "AFB" - ALTERNATE FEEDER BREAKER
   - D. "MB" - MAIN BREAKER
   - E. "GB" - GENERATOR BREAKER
   - F. "MIB" - MAIN INPUT BREAKER (MBB SWITCHBOARD ONLY)
   - G. "MBB" - MAINTENANCE BYPASS BREAKER
4. REFER TO SPECIFICATION "26 05 53 - IDENTIFICATION FOR ELECTRICAL SYSTEMS" FOR ADDITIONAL REQUIREMENTS.



1 CABLE TRAY LAYOUT
N.T.S.

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	ISSUES	
1	07.24.2024	CONCEPT VERIFICATION
2	11.22.2024	SCHEMATIC DESIGN

REVISIONS

kW Mission Critical Engineering
Contact: Phillip Gessler Phone: 920-917-4878

NOT FOR CONSTRUCTION

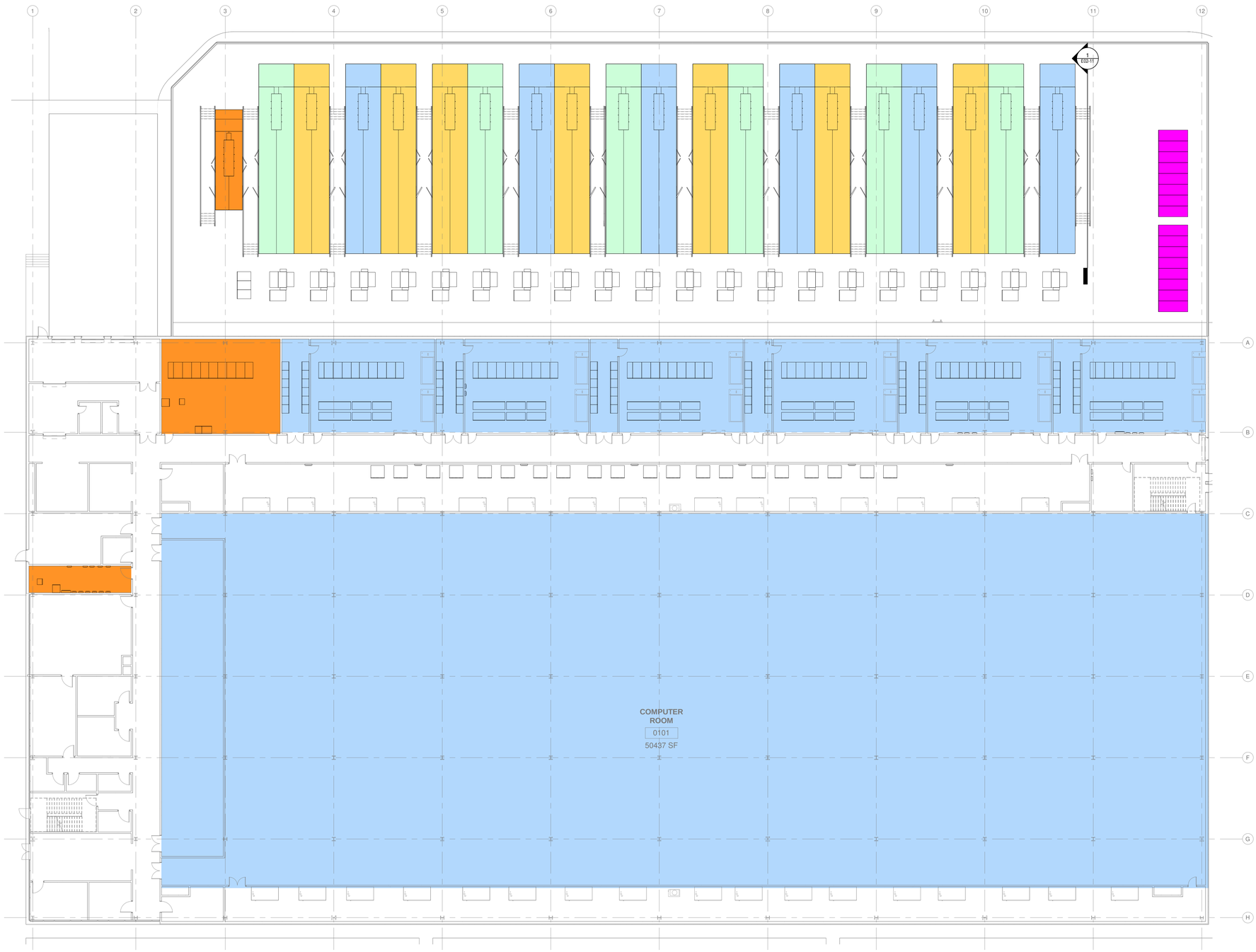
Date of issue:
11.22.2024

GIC Vernon, LLC

GEP Vernon
BUILDING 1: 3163 East Vernon Avenue Vernon, California 90058
BUILDING 2: 3049 East Vernon Avenue Vernon, California 90058

ELECTRICAL FEEDER SCHEDULES AND DETAILS

JOB 37567.7408
DATE 11.22.2024
SHEET
E01-51



1 POWER PLAN - LEVEL ONE - OVERALL
1/16" = 1'-0"

11/22/2024 4:12:49 PM E02-01 POWER PLAN - LEVEL ONE - OVERALL

GENERAL NOTES

1. OVERALL PLAN FOR REFERENCE ONLY. REFER TO SEGMENT SHEETS AND ENLARGED PLANS FOR ADDITIONAL INFORMATION.

LEGEND

UTILITY	
HOUSE	
COMPUTER ROOM 0101	
COMPUTER ROOM 0201	
COMPUTER ROOM 0301	

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ISSUES		
1	07.24.2024	CONCEPT VERIFICATION
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GIC Vernon, LLC

GEP Vernon

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Vernon, California 90058

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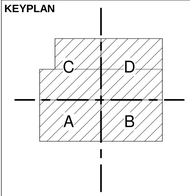
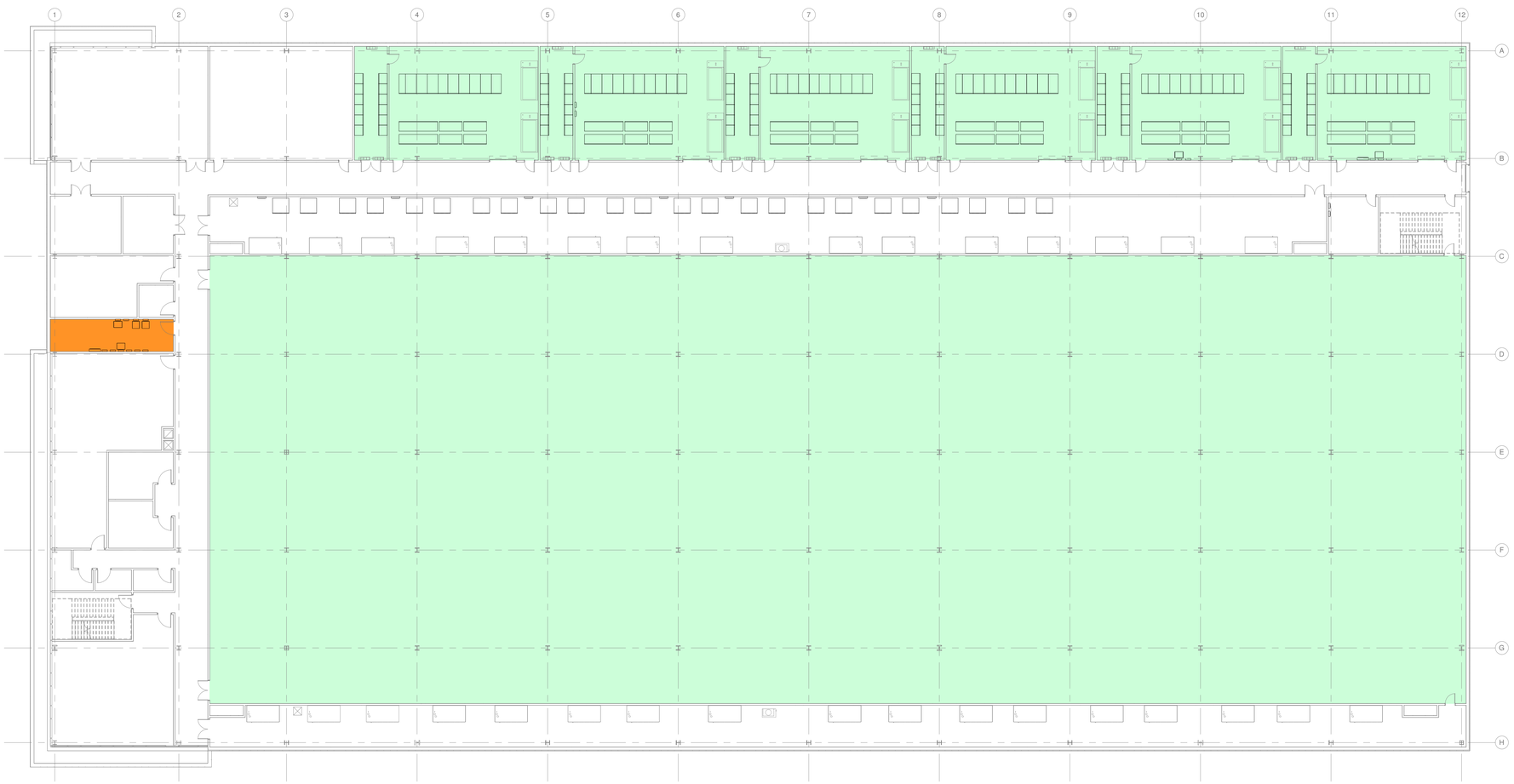
KEYPLAN



POWER PLAN - LEVEL ONE - OVERALL

JOB 37567.7408
DATE 11.22.2024
SHEET
E02-01



1 POWER PLAN - LEVEL TWO - OVERALL
1/16" = 1'-0"

11/22/2024 4:12:55 PM E02-02 POWER PLAN - LEVEL TWO - OVERALL

GENERAL NOTES

1. OVERALL PLAN FOR REFERENCE ONLY. REFER TO SEGMENT SHEETS AND ENLARGED PLANS FOR ADDITIONAL INFORMATION.

LEGEND

UTILITY	
HOUSE	
COMPUTER ROOM 0101	
COMPUTER ROOM 0201	
COMPUTER ROOM 0301	

CORGAN

kW Mission Critical Engineering
Member of WSP

LANGAN

PASE

ISSUES		
1	07.24.2024	CONCEPT VERIFICATION
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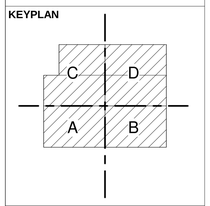
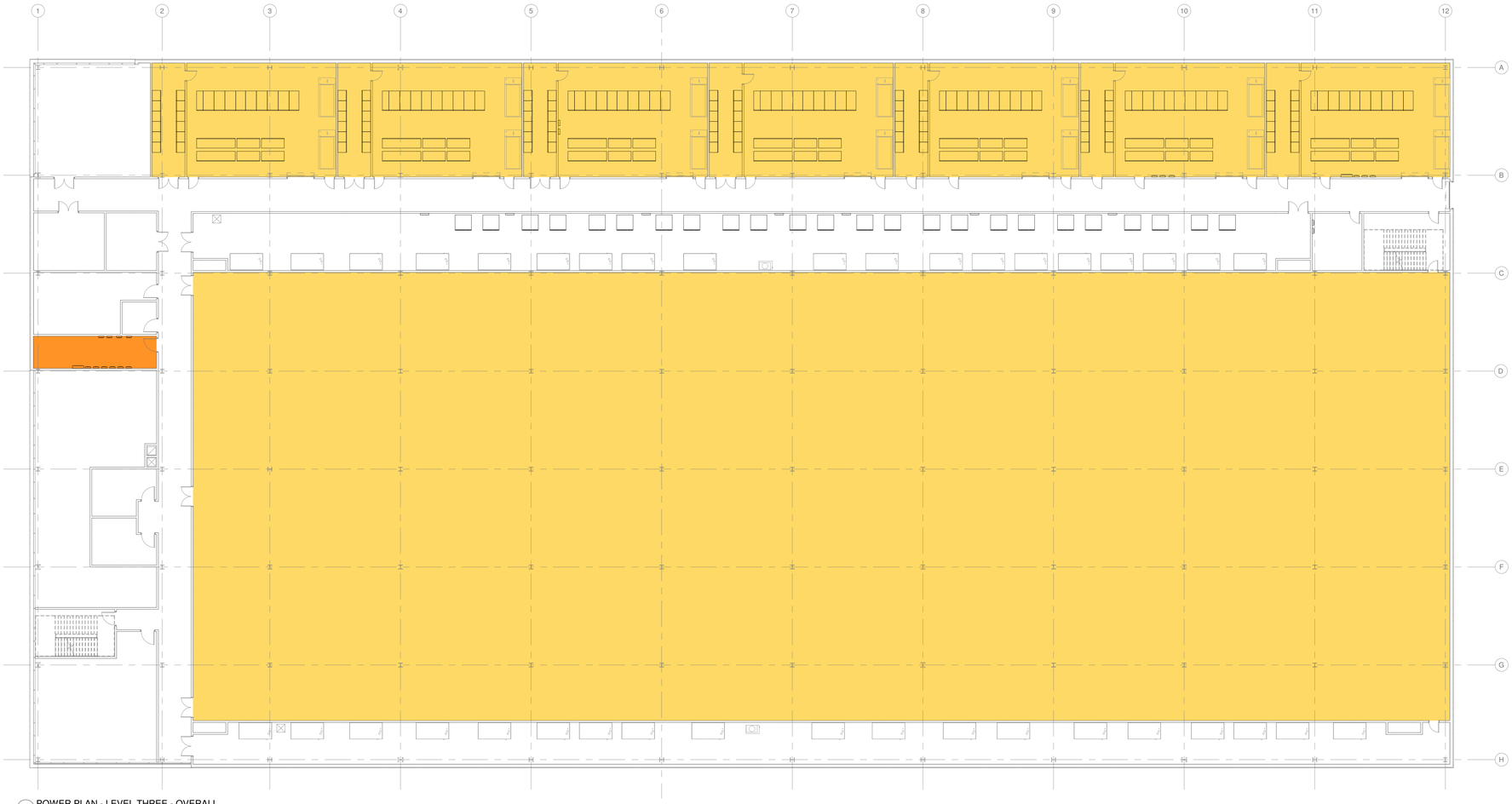
KEYPLAN



POWER PLAN - LEVEL TWO - OVERALL

JOB 37567.7408
DATE 11.22.2024
SHEET
E02-02



1 POWER PLAN - LEVEL THREE - OVERALL
1/16" = 1'-0"

11/22/2024 4:13:00 PM E02-03 POWER PLAN - LEVEL THREE - OVERALL

GENERAL NOTES

1. OVERALL PLAN FOR REFERENCE ONLY. REFER TO SEGMENT SHEETS AND ENLARGED PLANS FOR ADDITIONAL INFORMATION.

LEGEND

UTILITY	
HOUSE	
COMPUTER ROOM 0101	
COMPUTER ROOM 0201	
COMPUTER ROOM 0301	

CORGAN
kW Mission Critical Engineering Member of WSP
LANGAN
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	ISSUES	
1	07.24.2024	CONCEPT VERIFICATION
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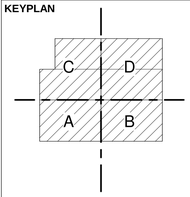
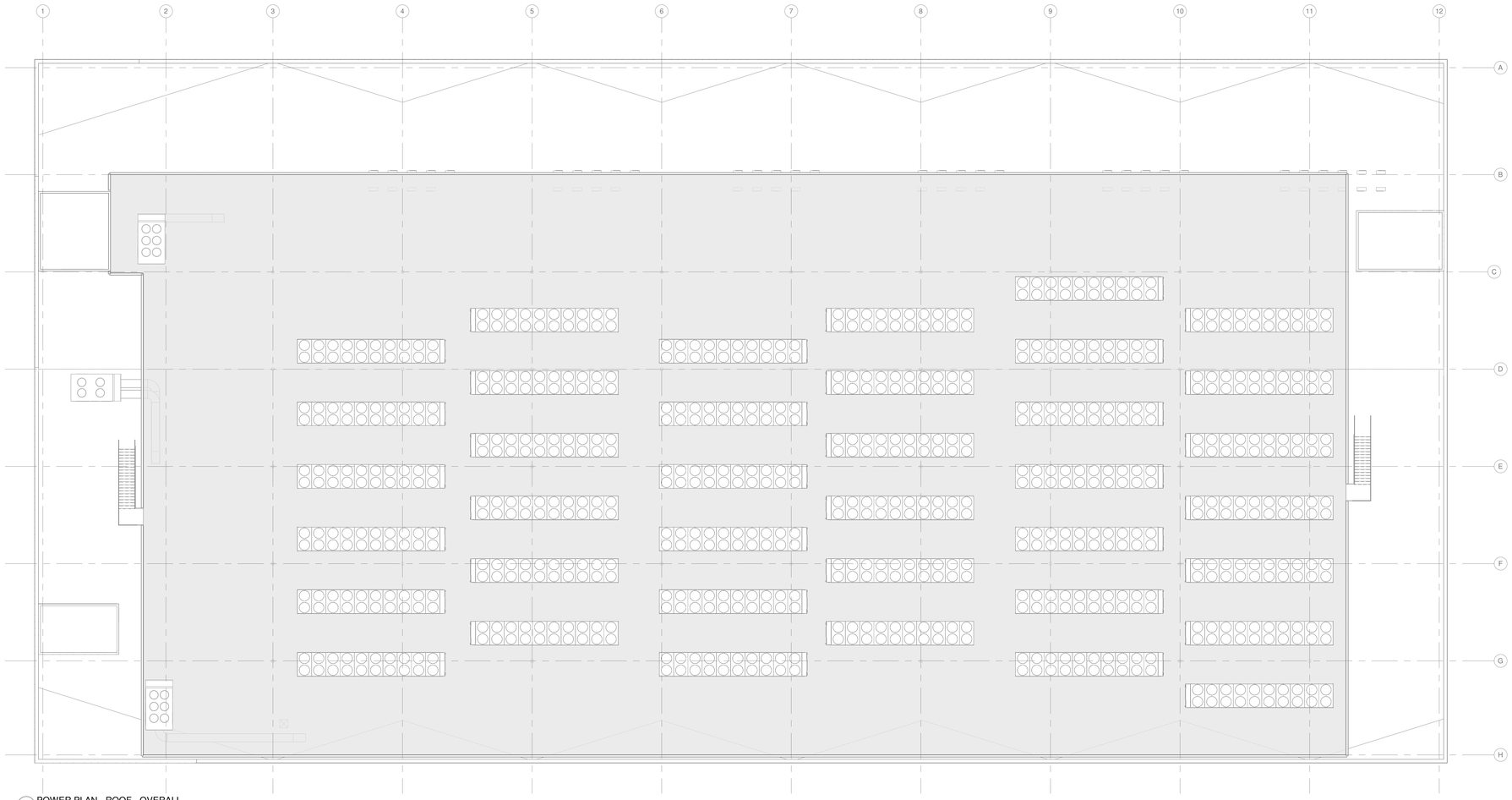
KEYPLAN



POWER PLAN - LEVEL THREE - OVERALL

JOB 37567.7408
DATE 11.22.2024
SHEET
E02-03



1 POWER PLAN - ROOF - OVERALL
1/16" = 1'-0"

11/22/2024 4:13:17 PM E02-04 POWER PLAN - ROOF - OVERALL

GENERAL NOTES

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LEGEND

UTILITY	
HOUSE	
COMPUTER ROOM 0101	
COMPUTER ROOM 0201	
COMPUTER ROOM 0301	

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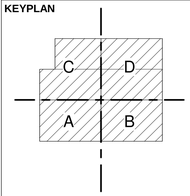
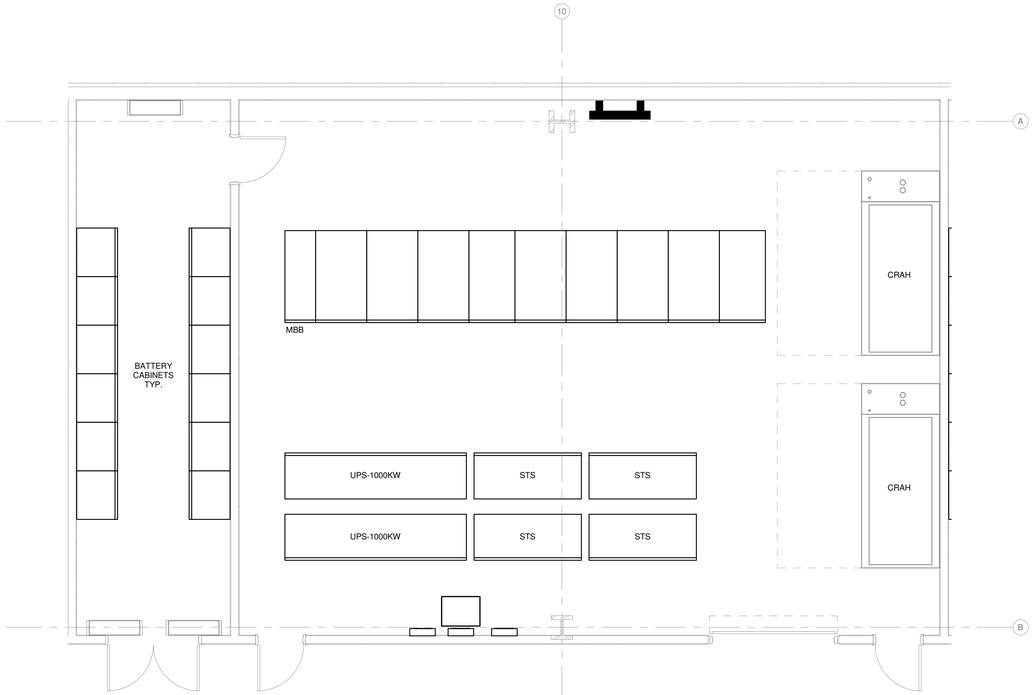
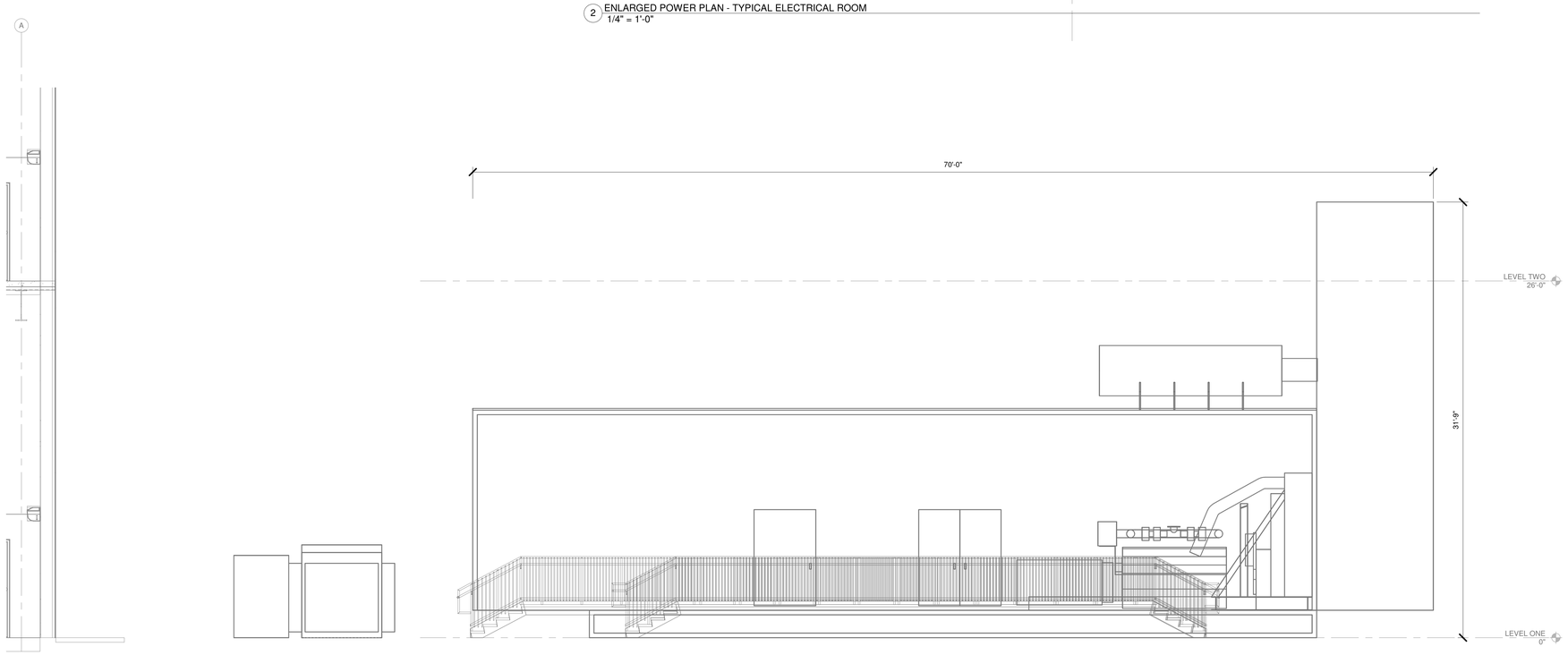


POWER PLAN - ROOF - OVERALL

JOB 37567.7408
DATE 11.22.2024
SHEET
E02-04



2 ENLARGED POWER PLAN - TYPICAL ELECTRICAL ROOM
1/4" = 1'-0"



1 GENERATOR SIDE ELEVATION
1/4" = 1'-0"

11/22/2024 4:13:22 PM E02-11 POWER DETAILS

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ISSUES		
2	11.22.2024	SCHEMATIC DESIGN

REVISIONS

kW Mission Critical Engineering
Contact: Phillip Gessler Phone: 920-917-4878

NOT FOR CONSTRUCTION

Date of issue:
11.22.2024

GIC Vernon, LLC

GEP Vernon

BUILDING 1 : 3163 East Vernon Avenue
Vernon, California 90058

BUILDING 2: 3049 East Vernon Avenue
Vernon, California 90058

POWER DETAILS

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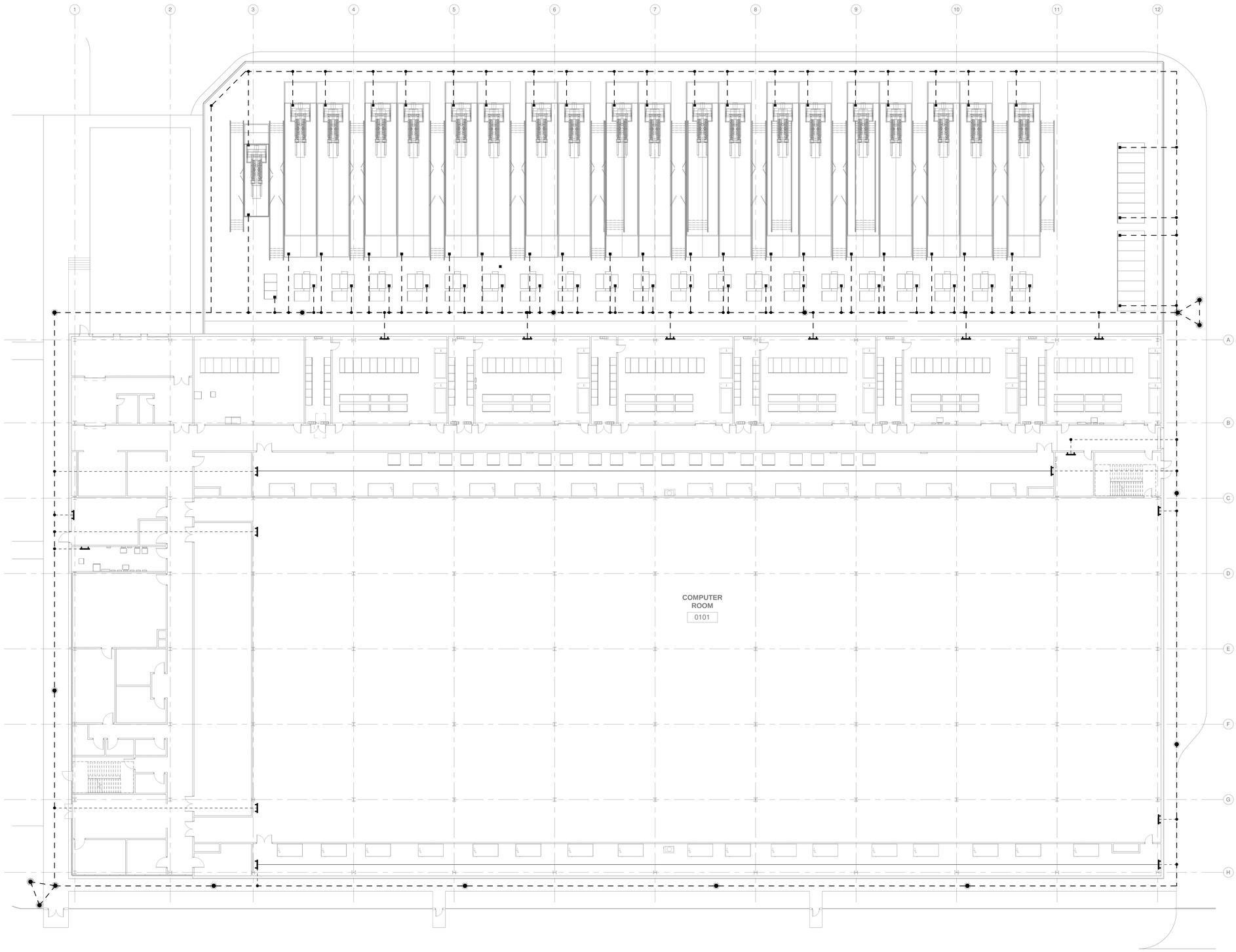
DATE 11.22.2024
SHEET
E02-11



1 GROUNDING PLAN - LEVEL ONE - OVERALL
1/16" = 1'-0"

11/22/2024 4:13:28 PM E03-01 GROUNDING PLAN - LEVEL ONE - OVERALL

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	ISSUES	
1	07.24.2024	CONCEPT VERIFICATION
2	11.22.2024	SCHEMATIC DESIGN

REVISIONS

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11.22.2024

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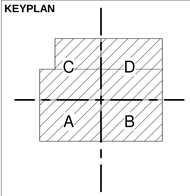
KEYPLAN

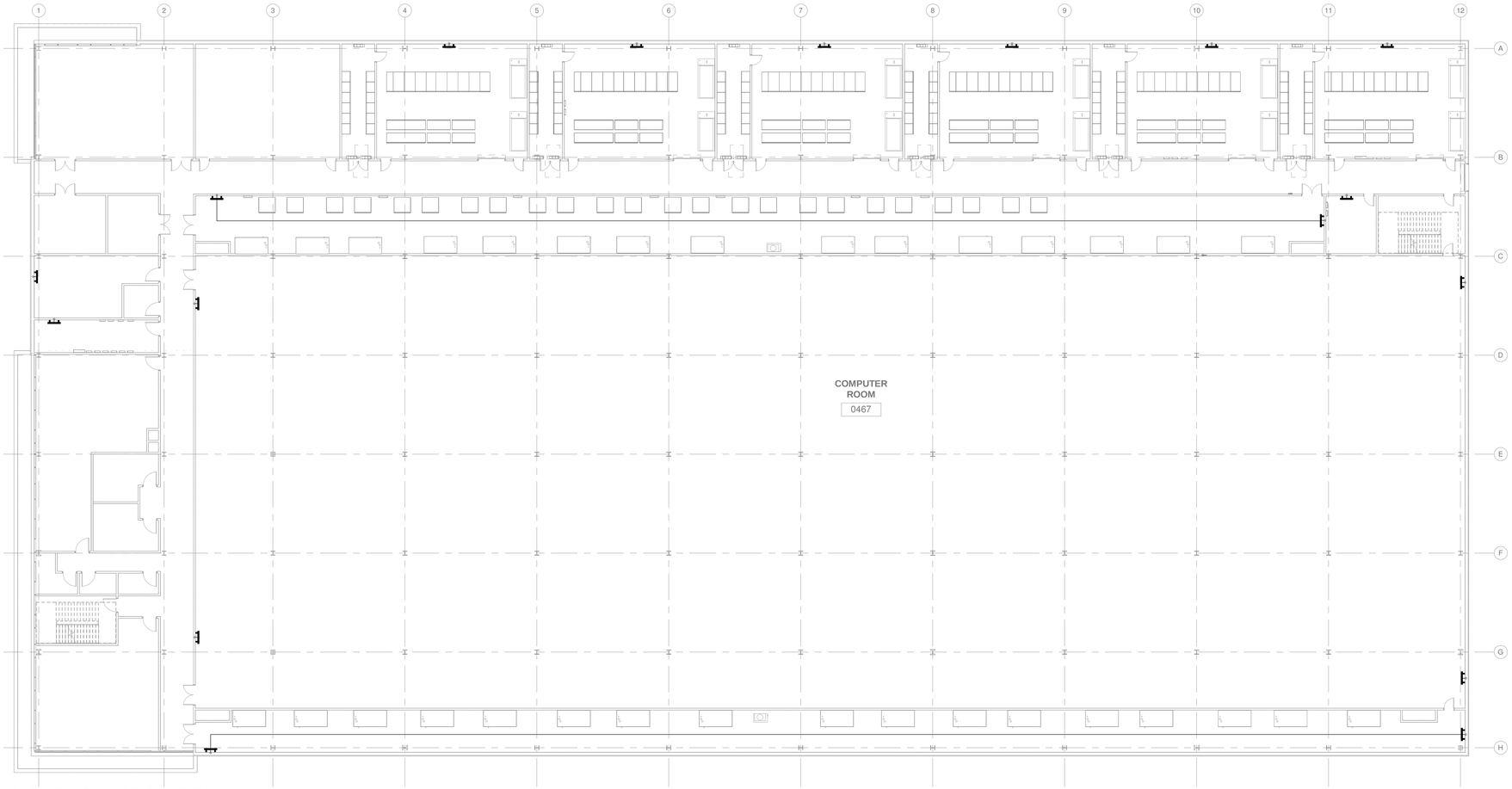


GROUNDING PLAN - LEVEL ONE - OVERALL

GENERAL NOTES

1. OVERALL PLAN FOR REFERENCE ONLY. REFER TO SEGMENT SHEETS FOR ADDITIONAL INFORMATION.

JOB 37567.7408
DATE 11.22.2024
SHEET
E03-01



1 GROUNDING PLAN - LEVEL TWO - OVERALL
1/16" = 1'-0"

11/22/2024 4:13:33 PM E03-02 GROUNDING PLAN - LEVEL TWO - OVERALL

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ISSUES		
1	07.24.2024	CONCEPT VERIFICATION
2	11.22.2024	SCHEMATIC DESIGN

REVISIONS

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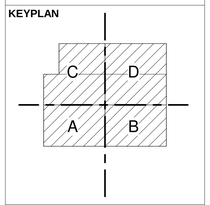
KEYPLAN

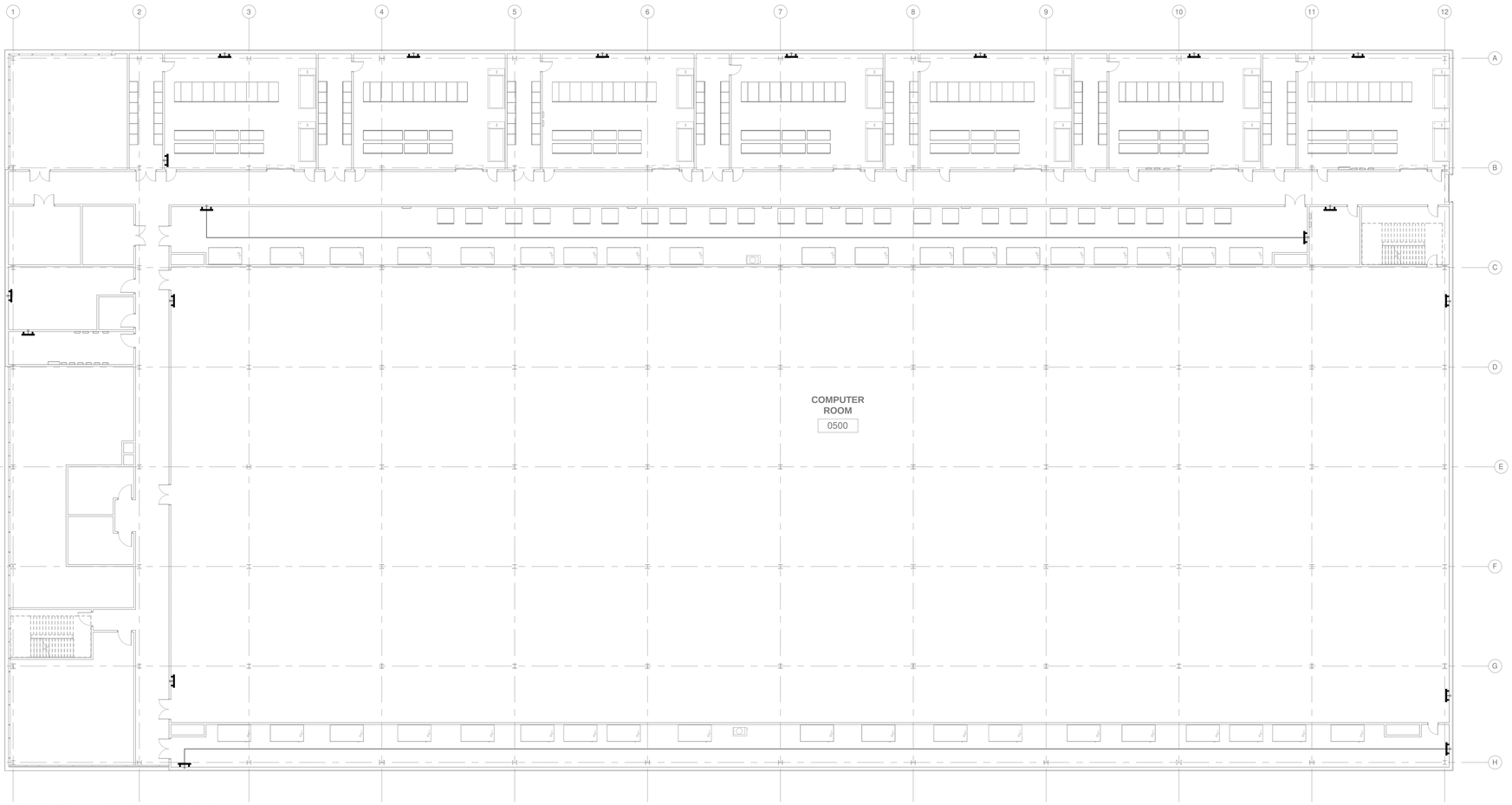


GROUNDING PLAN - LEVEL TWO - OVERALL

GENERAL NOTES

1. OVERALL PLAN FOR REFERENCE ONLY. REFER TO SEGMENT SHEETS FOR ADDITIONAL INFORMATION.

JOB 37567.7408
DATE 11.22.2024
SHEET
E03-02



1 GROUNDING PLAN - LEVEL THREE- SEGMENT
1/16" = 1'-0"

11/22/2024 4:13:37 PM E03-03 GROUNDING PLAN - LEVEL THREE - OVERALL

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1	07.24.2024	CONCEPT VERIFICATION
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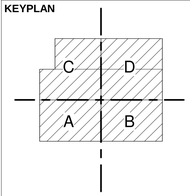
KEYPLAN

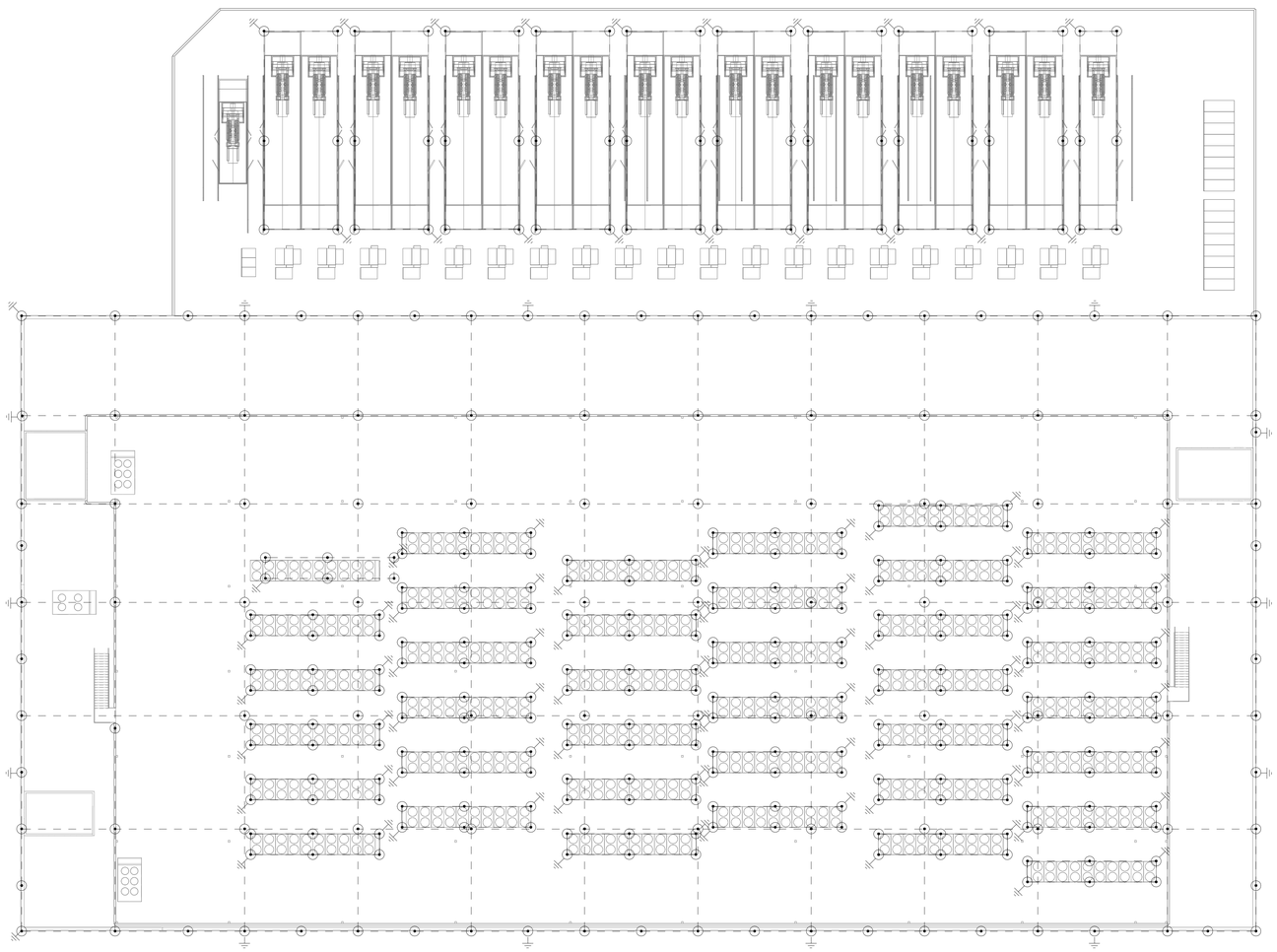


GROUNDING PLAN - LEVEL THREE - OVERALL

GENERAL NOTES

1. OVERALL PLAN FOR REFERENCE ONLY. REFER TO SEGMENT SHEETS FOR ADDITIONAL INFORMATION.

JOB 37567.7408
DATE 11.22.2024
SHEET
E03-03



1 LIGHTNING PROTECTION PLAN - OVERALL
3/64" = 1'-0"

GENERAL NOTES

1. LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED BY A CERTIFIED LIGHTNING PROTECTION CONTRACTOR. SYSTEM SHALL BE UL MASTER LABELED IN FULL COMPLIANCE WITH NFPA 780 AND UL 96A.
2. LIGHTNING PROTECTION DRAWING IS DIAGRAMMATIC AND INTENDED TO SHOW GENERAL ARRANGEMENT OF SYSTEM COMPONENTS. CONTRACTOR SHALL CREATE DETAILED SHOP DRAWINGS AND ENSURE ALL LAYOUTS, DIMENSIONS, MATERIALS, ETC. ARE COMPLIANT WITH REFERENCED STANDARDS. MISCELLANEOUS ITEMS SUCH AS PLUMBING VENTS, PIPES, ETC WHICH MAY NEED TO BE BONDED TO THE LIGHTNING PROTECTION SYSTEM ARE NOT SHOWN AND MUST BE FIELD VERIFIED BY THE CONTRACTOR.
3. ALL CONDUCTORS SHALL BE ALUMINUM UNLESS OTHERWISE NOTED. CONTRACTOR SHALL PROVIDE COPPER MATERIALS FOR DOWN CONDUCTORS AND WHERE REQUIRED TO AVOID GALVANIC INTERACTIONS BETWEEN DISSIMILAR METALS. UTILIZE BI-METALLIC SPLICERS WHERE TRANSITIONING BETWEEN ALUMINUM AND COPPER.
4. REFER TO DETAILS ON E03-50 SERIES DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. LIGHTNING PROTECTION CONTRACTOR SHALL OBTAIN APPROVAL OF THE ROOFING MANUFACTURER AND ROOFING INSTALLER FOR ADHESIVES AND ATTACHMENT METHODS USED TO MAINTAIN ROOF WARRANTY.
6. DOWN CONDUCTOR LOCATIONS ARE APPROXIMATE AND SHALL BE ADJUSTED TO MATCH SEAMS IN THE PRE-CAST CONCRETE WALL PANELS. CONCEAL DOWN CONDUCTORS IN THE SEAMS BETWEEN PANELS. PROVIDE ADDITIONAL DOWN CONDUCTORS AS REQUIRED TO ENSURE THAT A MINIMUM OF ONE DOWN CONDUCTOR PER 100 FT OF ROOF PERIMETER IS PROVIDED. IN NO CASE SHALL FEWER DOWN CONDUCTORS BE PROVIDED THAN ARE SHOWN.

DEFFERED SUBMITTAL ALL WORK SHOWN IS TO ILLUSTRATE DESIGN INTENT

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ISSUES

1	07.24.2024	CONCEPT VERIFICATION
2	11.22.2024	SCHEMATIC DESIGN

REVISIONS

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Contact: Phillip Gessler Phone: 920-917-4878

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Date of issue:
11.22.2024

GIC Vernon, LLC

GEP Vernon

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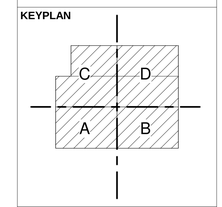
Vernon, California 90058

BUILDING 2: 3049 East Vernon Avenue
Vernon, California 90058

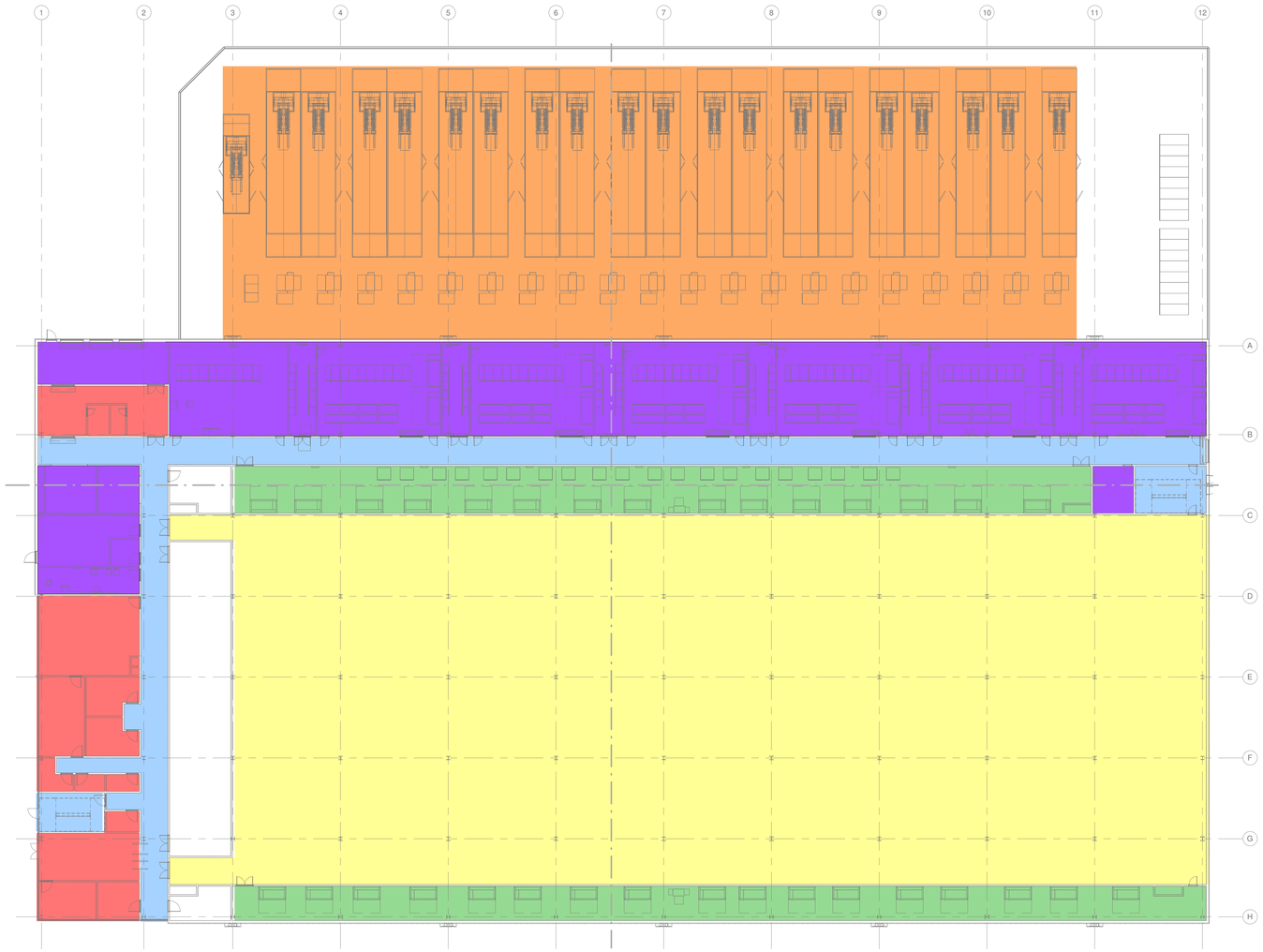
KEYPLAN



LIGHTNING PROTECTION PLAN - ROOF - OVERALL

JOB 37567.7408
DATE 11.22.2024
SHEET
E03-04

11/22/2024 4:13:51 PM E03-04 LIGHTNING PROTECTION PLAN - ROOF - OVERALL



1 LIGHTING PLAN - LEVEL ONE - OVERALL
3/64" = 1'-0"

11/22/2024 4:13:59 PM E04-01 LIGHTING PLAN - LEVEL ONE - OVERALL

LIGHTING ZONE LEGEND

DATA HALLS
-CODE MINIMUM EGRESS LIGHTING
-OCCUPANCY SENSORS WITH A SINGLE KEYED SWITCH OVERRIDE

LOBBY AND OFFICE
-LIGHTING SPECIFIED PER ARCHITECT DESIGN

CORRIDOR, STAIRS
-CODE MINIMIM EGRESS LIGHTING
-WALL MOUNTED LINEAR 4' FIXTURE WITH INTEGRATED OCCUPANCY SENSOR

ROOFTOP LIGHTING
-WEATHER PROOF EXTERIOR WALL PACKS MOUNTED TO CHILLERS AND PLATFORMS

GALLERIES
-4' LINEAR LED SUSPENDED FROM STRUCTURE AT 12' 0"

GENERATOR CONTAINER
-STRUCTURE MOUNTED PREINSTALLED INDUSTRIAL LIGHTING.
-WEATHER PROOF EXTERIOR WALL PACKS

EQUIPMENT ROOMS
-4' LINEAR LED SUSPENDED FROM STRUCTURE AT 12' 0"

GENERAL NOTES

1. OVERALL PLAN FOR REFERENCE ONLY. REFER TO SEGMENT SHEETS FOR ADDITIONAL INFORMATION.

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1	07.24.2024	CONCEPT VERIFICATION
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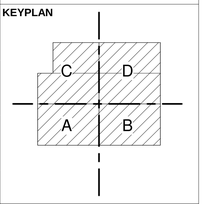
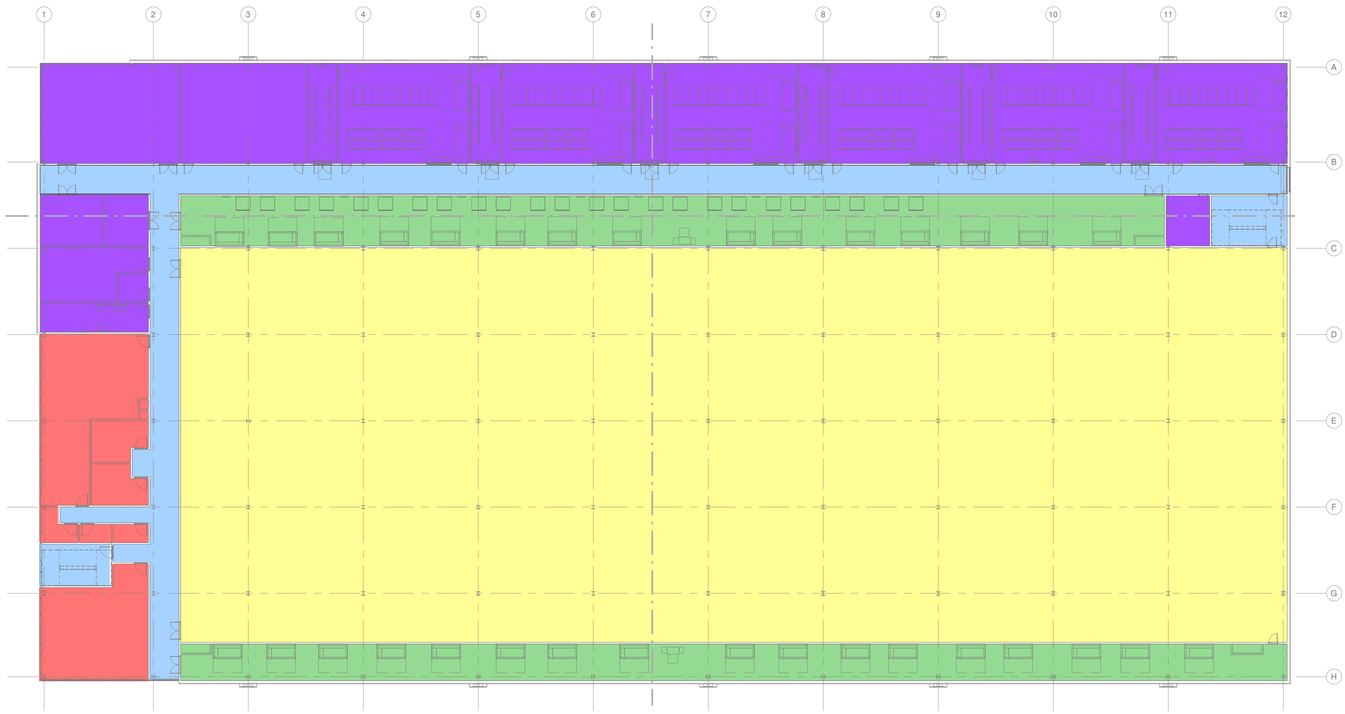
KEYPLAN



LIGHTING PLAN - LEVEL ONE - OVERALL

JOB 37567.7408
DATE 11.22.2024
SHEET
E04-01



1 LIGHTING PLAN - LEVEL TWO - OVERALL
3/64" = 1'-0"

LIGHTING ZONE LEGEND

	DATA HALLS -CODE MINIMUM EGRESS LIGHTING OCCUPANCY SENSORS WITH A SINGLE KEYED SWITCH OVERRIDE
	LOBBY AND OFFICE -LIGHTING SPECIFIED PER ARCHITECT DESIGN
	CORRIDOR, STAIRS -CODE MINIMIM EGRESS LIGHTING -WALL MOUNTED LINEAR 4' FIXTURE WITH INTEGRATED OCCUPANCY SENSOR
	ROOFTOP LIGHTING -WEATHER PROOF EXTERIOR WALL PACKS MOUNTED TO CHILLERS AND PLATFORMS
	GALLERIES -4' LINEAR LED SUSPENDED FROM STRUCTURE AT 12' 0"
	GENERATOR CONTAINER -STRUCTURE MOUNTED PREINSTALLED INDUSTRIAL LIGHTING. -WEATHER PROOF EXTERIOR WALL PACKS
	EQUIPMENT ROOMS -4' LINEAR LED SUSPENDED FROM STRUCTURE AT 12' 0"

GENERAL NOTES

1. OVERALL PLAN FOR REFERENCE ONLY. REFER TO SEGMENT SHEETS FOR ADDITIONAL INFORMATION.

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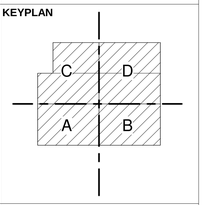
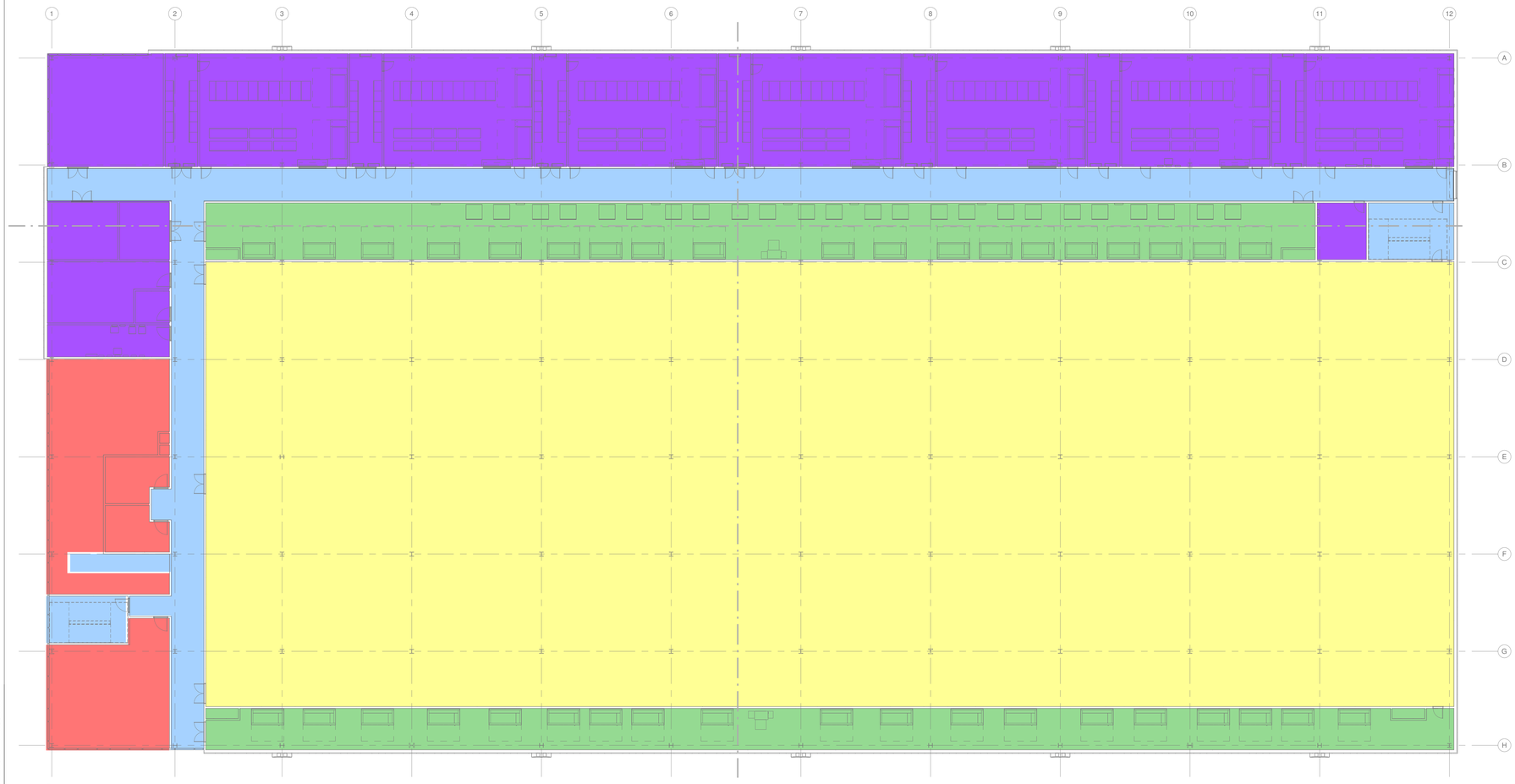
KEYPLAN



LIGHTING PLAN - LEVEL TWO - OVERALL

JOB 37567.7408
DATE 11.22.2024
SHEET
E04-02

11/22/2024 4:14:04 PM E04-02 LIGHTING PLAN - LEVEL TWO - OVERALL



1 LIGHTING PLAN - LEVEL THREE - OVERALL
1/16" = 1'-0"

11/22/2024 4:14:09 PM E04-03 LIGHTING PLAN - LEVEL THREE - OVERALL

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	ISSUES	
1	07.24.2024	CONCEPT VERIFICATION
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GIC Vernon, LLC

GEP Vernon

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Vernon, California 90058

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Vernon, California 90058

LIGHTING ZONE LEGEND

DATA HALLS
-CODE MINIMUM EGRESS LIGHTING
OCCUPANCY SENSORS WITH A SINGLE KEYED SWITCH OVERRIDE

LOBBY AND OFFICE
-LIGHTING SPECIFIED PER ARCHITECT DESIGN

CORRIDOR, STAIRS
-CODE MINIMM EGRESS LIGHTING
-WALL MOUNTED LINEAR 4' FIXTURE WITH INTEGRATED OCCUPANCY SENSOR

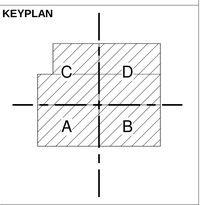
ROOFTOP LIGHTING
-WEATHER PROOF EXTERIOR WALL PACKS MOUNTED TO CHILLERS AND PLATFORMS

GALLERIES
-4' LINEAR LED SUSPENDED FROM STRUCTURE AT 12' 0"

GENERATOR CONTAINER
-STRUCTURE MOUNTED PREINSTALLED INDUSTRIAL LIGHTING.
-WEATHER PROOF EXTERIOR WALL PACKS

EQUIPMENT ROOMS
-4' LINEAR LED SUSPENDED FROM STRUCTURE AT 12' 0"

KEYPLAN

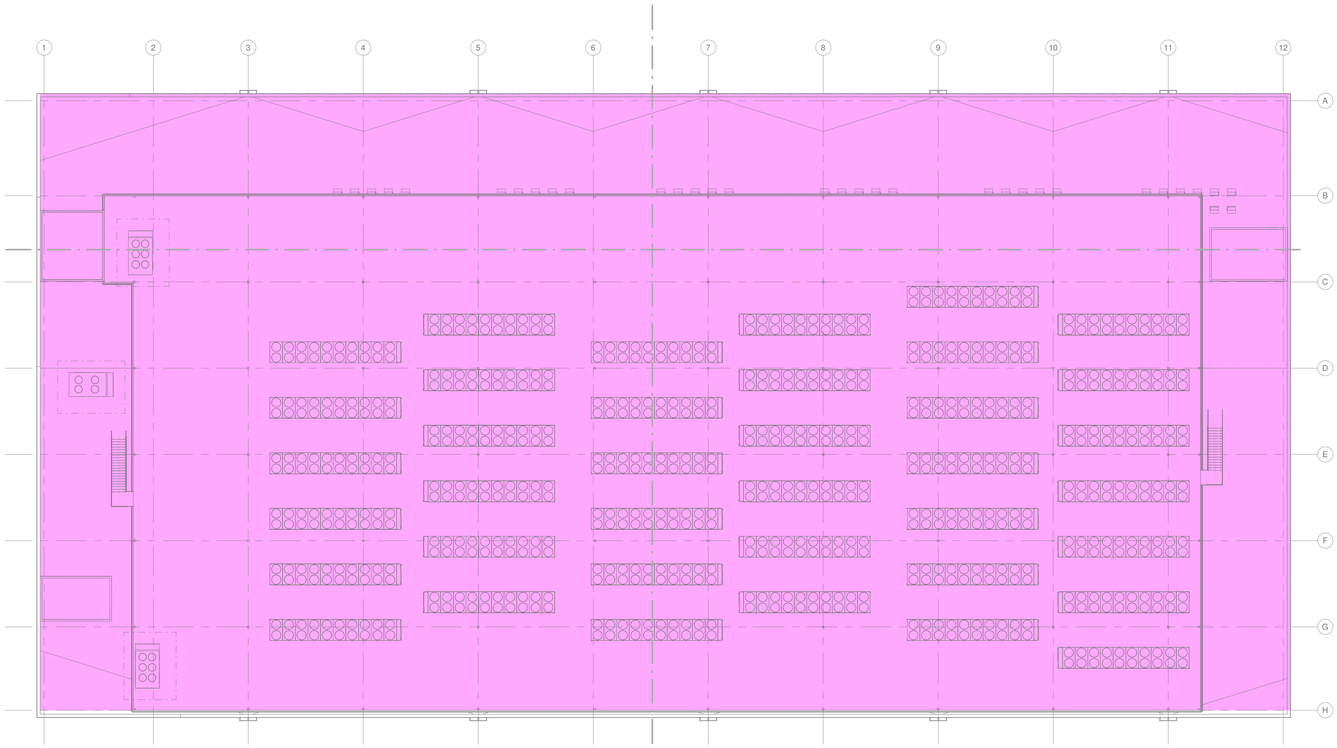


GENERAL NOTES

1. OVERALL PLAN FOR REFERENCE ONLY. REFER TO SEGMENT SHEETS FOR ADDITIONAL INFORMATION.

LIGHTING PLAN - LEVEL THREE - OVERALL

JOB 37567.7408
DATE 11.22.2024
SHEET
E04-03



1 LIGHTING PLAN - ROOF - OVERALL
3/64" = 1'-0"

LIGHTING ZONE LEGEND

DATA HALLS
-CODE MINIMUM EGRESS LIGHTING
OCCUPANCY SENSORS WITH A SINGLE KEYED SWITCH OVERRIDE

LOBBY AND OFFICE
-LIGHTING SPECIFIED PER ARCHITECT DESIGN

CORRIDOR, STAIRS
-CODE MINIMM EGRESS LIGHTING
-WALL MOUNTED LINEAR 4' FIXTURE WITH INTEGRATED OCCUPANCY SENSOR

ROOFTOP LIGHTING
-WEATHER PROOF EXTERIOR WALL PACKS MOUNTED TO CHILLERS AND PLATFORMS

GALLERIES
-4' LINEAR LED SUSPENDED FROM STRUCTURE AT 12' 0"

GENERATOR CONTAINER
-STRUCTURE MOUNTED PREINSTALLED INDUSTRIAL LIGHTING.
-WEATHER PROOF EXTERIOR WALL PACKS

EQUIPMENT ROOMS
-4' LINEAR LED SUSPENDED FROM STRUCTURE AT 12' 0"

GENERAL NOTES

1. OVERALL PLAN FOR REFERENCE ONLY. REFER TO SEGMENT SHEETS FOR ADDITIONAL INFORMATION.

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ISSUES		
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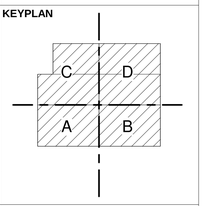


LIGHTING PLAN - ROOF - OVERALL

JOB 37567.7408
DATE 11.22.2024
SHEET
E04-04

11/22/2024 4:14:32 PM E04-04 LIGHTING PLAN - ROOF - OVERALL

GENERAL NOTES

A. THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PROJECT DRAWINGS.
B. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL CODES, LAWS, RULES, AND REGULATIONS OF ALL NATIONAL, STATE, COUNTY, AND LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PREMISES. THIS SHOULD INCLUDE, BUT NOT LIMITED TO, THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE, INTERNATIONAL BUILDING CODE, INTERNATIONAL ENERGY CONSERVATION CODE, AND THE NATIONAL FIRE PROTECTION ASSOCIATION. IN CASE OF DIFFERENCES, THE MOST RESTRICTIVE OF SAID REGULATIONS SHALL GOVERN. HOWEVER, THIS SHALL NOT BE CONSTRUED TO RELIEVE THIS CONTRACTOR FROM COMPLYING WITH REQUIREMENTS OF THE PLANS AND SPECIFICATIONS WHICH MAY BE IN EXCESS OF CODE REQUIREMENTS.
C. TO OBTAIN ALL CONSTRUCTION INFORMATION, ALL SPECIFICATIONS AND DRAWINGS (E.G. ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION) MUST BE USED.
D. DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF SERVICES WITH EXISTING CONDITIONS AND WITH OTHER TRADES.
E. BRING TO THE ATTENTION OF THE ARCHITECT/ENGINEER ANY INFORMATIONAL CONFLICTS WITHIN THE SPECIFICATIONS AND DRAWINGS. THE CONTRACTOR(S) SHALL NOT PROCEED WITH ANY WORK, EXCEPT AT ITS OWN RISK, UNTIL ALL CONFLICTS ARE RESOLVED, AND THE CLARIFYING INFORMATION IS ISSUED TO THE CONTRACTOR(S) BY THE ARCHITECT/ENGINEER.
F. PROVIDE OFFSETS AND TRANSITIONS IN DUCTWORK AND PIPING AS REQUIRED TO AVOID INTERFERENCES AT NO ADDITIONAL COST TO THE OWNER. THOUGH SOME OFFSETS AND TRANSITION ARE SHOWN IN PIPING AND SHEET METAL TO HELP INDICATE THE PHYSICAL RELATIONSHIP BETWEEN THEM, IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL PIPING AND SHEET METAL OFFSETS AND TRANSITION REQUIRED. THE CONTRACTOR SHALL FULLY COORDINATE THE MECHANICAL WORK WITHIN ITSELF AND WITH THE WORK OF ALL TRADES TO PROVIDE COMPLETE AND OPERABLE SYSTEMS WITHOUT INTERFERENCE.
G. INSTALL ALL EQUIPMENT LEVEL AND PLUMB. PROVIDE BLOCKING AND HARDWARE AS REQUIRED.
H. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF WORK. PROVIDE TRANSITIONS AND MAKE FINAL CONNECTIONS TO EQUIPMENT, UNLESS OTHERWISE INDICATED.
I. INSTALL ALL EQUIPMENT LEVEL REQUIRING PERIODIC SERVICE NOT LESS THAN 10 FEET FROM ROOF EDGE OR OPENING, UNLESS PROTECTIVE RAILING OR PARAPET OF 42 INCHES AFF. HAS BEEN PROVIDED VERIFY WITH OTHER TRADES TO CONFIRM IF PROTECTIVE RAILING OR PARAPET OF 42 INCHES AFF. IS PROVIDED.
J. CONCENTRATE LOADS AT JOIST AND/OR BEAM LOCATION. WHERE CONCENTRATED LOADS DUE TO EQUIPMENT, RISERS, OR SPECIAL DUCT CONSTRUCTION OCCUR AT OTHER LOCATIONS, PROVIDE ADDITIONAL SUPPORT FRAMING AND/OR ANGLE BRACING.
K. DUCT CONSTRUCTION SHALL COMPLY WITH THE LATEST VERSION OF SMACNA CONSTRUCTION STANDARD. ALL OF 90 DEGREE ELBOWS SHALL BE LONG RADIUS TYPE UNLESS SPACE IS LIMITED. SHORT RADIUS AND RECTANGULAR ELBOWS SHALL HAVE TURNING VANES. UNLESS OTHERWISE NOTED FOR BRANCH CONNECTIONS, PROVIDE CONICAL TAPS FOR ROUND DUCTS AND 45 DEGREE TAPS FOR RECTANGULAR DUCTS.
L. FLEXIBLE DUCTWORK SHALL NOT BE USED IN RETURN OR EXHAUST DUCT SYSTEMS. FLEXIBLE DUCTWORK MAY BE USED IN THE SUPPLY SYSTEM PROVIDED THE LENGTH OF INDIVIDUAL SECTIONS ARE LIMITED TO A TOTAL LENGTH OF FIVE (5) FEET.
M. ALL DUCTWORK SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS. IF INTERNAL LINING IS REQUIRED, CONTRACTOR SHALL ENLARGE THE DUCTWORK TO PROVIDE THE INSIDE CLEAR DIMENSION SHOWN ON THE DRAWINGS.
N. PROVIDE DUCTWORK TO TERMINAL AIR DEVICES AT SCHEDULED INLET SIZE UNLESS OTHERWISE INDICATED.
O. PROVIDE DUCTWORK FROM TERMINAL AIR BOXES AT MANUFACTURERS OUTLET DIMENSION SIZE UNLESS OTHERWISE INDICATED. PROVIDE TRANSITIONS AS REQUIRED.
P. COORDINATE DUCTWORK PENETRATIONS OF ALL FIRE RATED AND SMOKE RESISTIVE CONSTRUCTION WITH LIFE SAFETY PLANS FOR LOCATIONS. PENETRATION ASSEMBLY TO BE U.L. LISTED.
Q. PAINT FLAT BLACK THE INSIDE OF ALL DUCTWOK VISIBLE THROUGH DIFFUSERS, GRILLES, AND REGISTERS.
R. PROVIDE OPEN END DUCTWORK WITH 2X2 MESH (1/2"X1/2") ALUMINUM SCREEN WITH REMOVABLE FRAMES.
S. FURNISH AND INSTALL ALL MANUALLY OPERATED VOLUME CONTROL (BALANCING) DAMPERS NECESSARY TO PERFORM THE BALANCING WORK, AT EACH BRANCH TAKE-OFF AND EACH AIR TERMINAL DEVICE, AND WHERE INDICATED.
T. DUCT SYSTEMS SHALL BE BALANCED TO AIRFLOWS INDICATED ON DRAWINGS. FANS SHALL BE FIELD TESTED TO ENSURE COMPLIANCE WITH SCHEDULED FAN PERFORMANCE AND SCHEDULED AIRFLOW AT THE DESIGN STATIC PRESSURE LISTED.
U. PROVIDE FLEXIBLE CONNECTIONS BETWEEN DUCTWORK AND ALL FANS AND ALL AIR HANDLING EQUIPMENT.
V. COORDINATE EXACT LOCATIONS OF DIFFUSERS, GRILLES, AND REGISTERS WITH THE REFLECTED CEILING PLANS BEFORE INSTALLATION. PROVIDE SYMMETRY WITH THE ROOM LIGHTING SYSTEMS.
W. VERIFY DIFFUSER, GRILLE, AND REGISTER MOUNTING FRAM TYPES WITH THE CEILING TYPES. PROVIDE FRAME TYPE THAT MATCHES CEILING CONFIGURATION.
X. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED MECHANICAL EQUIPMENT. COORDINATE SIZE AND LOCATION WITH ALL TRADES.
Y. PROVIDE ACCESS DOORS AND/OR PANELS FOR DUCT MOUNTED FIRE, SMOKE, FIRE/SMOKE DAMPERS, AND SMOKE DETECTORS.
Z. PROVIDE ACCESS DOORS AND/OR PANELS IN HARD CEILINGS AND WALLS TO PERMIT SERVICE TO DAMPERS. VALVES, AND CONCEALED EQUIPMENT.
AA. REFER TO ARCHIRRTECTURAL GENERAL INFORMATION SHEETS FOR MOUNTING HEIGHTS OF DEVICES. WHERE THIS INFORMATION IS NOT PROVIDED, MOUNT ROOM THERMOSTAT AT 48 INCHES AFF UNLESS OTHERWISE INDICATED.
BB. COORDINATE ALL WALL MOUNTED DEVICES SUCH AS THERMOSTATS AND CONTORL PANELS WITH ARCHITECTURAL INTERIOR ELEVATIONS.
CC. REFRIGERANT PIPE ROUTINGS SHOWN ARE FOR DESIGN INTENT ONLY. CONTRACTORS SHALL VERIFY ALL EXISTING REFRIGERANT PIPE ROUTINGS WITHIN SCOPE AND COORDINATE ALL NEW REFRIGERANT PIPE ROUTINGS WITH THE MANUFACTURER PRIOR TO COMMENCEMENT OF WORK.
DD. REFRIGERANT PIPE TO BE SIZED AND INSTALLED PER MANUFACTURER'S REQUIREMENTS, SIZING SHALL BE CONFIRMED WITH MANUFACTURER BASED ON FINAL COORDIANTED PIPE ROUTING PRIOR TO INSTALL. CONTRACTOR TO PROVIDE REFRIGERANT AS REQUIRED TO FILL THE SYSTEM.

CODE SUMMARY

WORK SHALL COMPLY AND BE INSTALLED IN COMPLIANCE WITH THE GOVERNING CODES, REGULATIONS, ADOPTED AMENDMENTS, AND REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

1. 2022 CALIFORNIA CODE OF REGULATIONS, TITLE 24
2. 2022 CALIFORNIA BUILDING CODE
3. 2022 CALIFORNIA ELECTRICAL CODE
4. 2022 CALIFORNIA ENERGY CODE
5. 2022 CALIFORNIA FIRE CODE
6. 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
7. 2022 CALIFORNIA MECHANICAL CODE
8. 2022 CALIFORNIA PLUMBING CODE

MECHANICAL ACCESSORIES

- T — THERMOSTAT OR TEMPERATURE SENSOR; MOUNT AT 48" A.F.F. UNLESS OTHERWISE NOTED
- H — HUMIDISTAT OR HUMIDITY SENSOR
- P — PRESSURE SENSOR
- S — SMOKE DETECTOR
- FS — FLOW SWITCH
- MS — MOTOR STARTER
- BGS — BREAKGLASS STATION
- M C C — MOTOR CONTROL CENTER
- SP — DUCT STATIC PRESSURE SENSOR
- PT — PRESSURE SENSOR
- DP — DIFFERENTIAL PRESSURE SENSOR
- VFD — VARIABLE FREQUENCY DRIVE
- FM — FLOW METER (INSERTION TYPE)
- FM — FLOW METER (LINE TYPE)
- HUMIDIFIER (DUCT MOUNTED)
- AFM — AIR FLOW MEASURING STATION
- LT — LEVEL METER (HYDROSTATIC)

DUCTWORK ACCESSORIES

- AB-C ,1" Ø / 123 CFM — SUPPLY DIFFUSER WITH TAG (TAG INCLUDES DIFFUSER TYPE, NECK SIZE AND CFM)
- AB-C ,12X34 / 123 CFM — RETURN REGISTER OR EXHAUST REGISTER WITH TAG (TAG INCLUDES REGISTER TYPE, NECK SIZE AND CFM)
- VAV- — VAV BOX
- FD — FIRE DAMPER
- MOTORIZED DAMPER
- MANUAL VOLUME DAMPER
- BACKDRAFT DAMPER

PIPING LINE TYPES

- ONE LINE CHILLED WATER SUPPLY
- ONE LINE CHILLED WATER RETURN
- ONE LINE CONDENSER WATER SUPPLY
- ONE LINE CONDENSER WATER RETURN
- ONE LINE FUTURE CHILLED WATER SUPPLY
- ONE LINE FUTURE CHILLED WATER RETURN
- ONE LINE FUTURE CONDENSER WATER SUPPLY
- ONE LINE FUTURE CONDENSER WATER RETURN
- HUMIDIFIER WATER SUPPLY
- MAKE-UP WATER SUPPLY

PIPING ACCESSORIES

- HOSE END DRAIN VALVE W/ CAP AND CHAIN
- AV — AUTOMATIC AIR VENT
- MV — MANUAL AIR VENT
- AIR SEPARATOR
- ALIGNMENT GUIDE
- ANCHOR
- BLIND FLANGE END
- CAPPED PIPE
- ECCENTRIC PIPE INCREASER / REDUCER
- EXPANSION JOINT
- FLEXIBLE CONNECTOR
- FOOT VALVE
- VENTURI FLOWMETER
- PRESSURE GAUGE AND SHUT-OFF COCK
- STRAINER
- STRAINER WITH BLOW OFF VALVE W/ CAP AND CHAIN
- TEMPERATURE AND PRESSURE TEST PORT
- THERMOMETER
- PUMP

PIPING VALVE TYPES

- BALL VALVE
- BUTTERFLY VALVE
- CALIBRATED BALANCING VALVE
- CHECK VALVE
- GATE VALVE
- GLOBE VALVE
- LUBRICATED PLUG VALVE
- MOTORIZED VALVE
- PRESSURE RELIEF VALVE
- PRESSURE REDUCING VALVE
- RELIEF VALVE
- SELF CONTAINED CONTROL VALVE
- SHUT OFF VALVE
- THREE WAY CONTROL VALVE
- TRIPLE DUTY VALVE
- TWO WAY CONTROL VALVE

DATA CENTER ROOMS AND EQUIPMENT

COMPUTER ROOM / DATA HALL:	TO HOUSE COMPUTER SYSTEMS AND ASSOCIATED COMPONENTS.
UPS ROOM:	CONVERT MEDIUM VOLTAGE TO LOW VOLTAGE AND PROVIDE UNINTERRUPTIBLE POWER SUPPLY FOR COMPUTER ROOM FLOORS.
COMPUTER ROOM AIR HANDLER:	CHILLED WATER AIR HANDLING UNIT.

ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
ACU	AIR CONDITIONING UNIT
ACC	AIR-COOLED CHILLER
ACCU	AIR-COOLED CONDENSING UNIT
AD	ACCESS DOOR
AF	AIR FILTER
AFF	ABOVE FINISHED FLOOR
AFM	AIR FLOW MEASURING DEVICE
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
AS	AIR SEPARATOR
B	BOILER
BMS	BUILDING MANAGEMENT SYSTEM
BDD	BACK DRAFT DAMPER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER, BOILER HORSEPOWER
BI	BACKWARD INCLINE
BTUH	BRITISH THERMAL UNITS PER HOUR
°C	DEGREES CELSIUS, CENTIGRADE
CA	COMPRESSED AIR
CC	COOLING COIL
CD	CEILING DIFFUSER, CONDENSATE DRAIN
CDP	CHEMICAL DOSING PUMP
CFM	CUBIC FEET PER MINUTE
CH	CHILLER OR CABINET HEATER
CHS	CHEMICAL STORAGE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	COOLING
CO	CLEAN OUT
COND	CONDENS(ATE, ER, ING, ATION)
CP	CONDENSATE PUMP
CRAH	COMPUTER ROOM AIR HANDLER
CT	COOLING TOWER
CTA	CHEMICAL TREATMENT ANALYZER
CU	CONDENSING UNIT
CV	CONSTANT VOLUME OR CONTROL VALVE
CONT.,	CONTINUES
CW	COLD WATER
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DECIBELS
DBT	DRY BULB TEMPERATURE
DC	DRY COOLER
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DPT	DEW POINT TEMPERATURE
DS	DUCT SILENCER
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EFF	EFFICIENCY
EFT	ENTERING FLUID TEMPERATURE
EG	EXHAUST GRILLE
EHC	ELECTRIC HEATING COIL
EL	ELEVATION
ER	EXHAUST REGISTER
ERC	ENERGY RECOVERY COIL, ELECTRIC REHEAT COIL
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WALL HEATER
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
°F	DEGREES, FAHRENHEIT
FC	FLEX CONNECTION, FORWARD CURVED
FCU	FAN COIL UNIT
FCV	FLOW CONTROL VALVE
FCW	FAN COIL WALL
FD	FIRE DAMPER, FLOOR DRAIN
FG	FLOOR GRILLE
FLA	FULL LOAD AMPS
FM	FLOW METER
FPB	FAN POWERED BOX
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FSD	COMBINATION FIRE/SMOKE DAMPER
FT	FEET
FV	FACE VELOCITY
GAL	GALLONS
GEN	GENERATOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS (OF MOISTURE)
GSR	GLYCOL SOLUTION RETURN
GSS	GLYCOL SOLUTION SUPPLY
HC	HEATING COIL
HD	HEAD
HVAC	HEATING VENTILATION AIR CONDITIONING
HOA	HAND OFF AUTO
HP	HORSEPOWER, HEAT PUMP
HRU	HEAT RECOVERY UNIT
HUM	HUMIDIFIER
HUMW	HUMIDIFIER WATER SUPPLY
HPC	HIGH PERFORMANCE COMPUTING
HV	HEATING AND VENTILATING UNIT
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
ID	INSIDE DIAMETER
IEU	INDOOR EVAPORATOR UNIT
IN	INCHES
INWC	INCHES WATER COLUMN
IRC	IN-ROW COOLERS
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LBS/HR	POUNDS PER HOUR
LD	LINEAR DIFFUSER
LF	LINEAR FOOT
LFT	LEAVING FLUID TEMPERATURE
LSD	LINEAR SLOT DIFFUSER
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	ONE THOUSAND BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CURRENT AMPACITY
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
MISC.	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MS	MOTOR STARTER
MUA	MAKE-UP AIR
MUW	MAKE-UP WATER
MV	MOTORIZED VALVE
MWP	MAKE-UP WATER PUMP
MWT	MAKE-UP WATER TANK
N/A	NOT APPLICABLE
NC	NOISE CRITERIA, NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NUMBER, NORMALLY OPEN
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
OE	OPEN ENDED
OED	OPEN ENDED DUCT
OHP	OUTDOOR HEAT PUMP
OPD	OVERCURRENT PROTECTION DEVICE
OS&Y	OUTSIDE SCREW AND YOKE
P	PUMP
PAC	PACKAGED AIR CONDITIONER
PBD	PARALLEL BLADE DAMPER
PC	PUMPED CONDENSATE
PCHP	PRIMARY CHILLED WATER PUMP
PD	PRESSURE DROP
PDS	PRESSURE DIFFERENTIAL SWITCH
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH WATER GAUGE
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RF	RETURN AIR FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RL	REFRIGERANT LIQUID
RLA	RATED LOAD AMPS
RMS	REFRIGERANT MONITORING SENSOR
ROG	REVERSE OSMOSIS GENERATOR
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
RV	RELIEF VALVE
SA	SUPPLY AIR
SCHP	SECONDARY CHILLED WATER PUMP
SD	SMOKE DAMPER, SMOKE DETECTOR
SF	SUPPLY AIR FAN, SQUARE FEET
SG	SPECIFIC GRAVITY OR SUPPLY GRILLE
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SPS	STATIC PRESSURE SENSOR
SR	SUPPLY REGISTER
SSF	SIDE STREAM FILTER
TCP	TEMPERATURE CONTROL PANEL
TCC	TEMPERATURE CONTROL COMPRESSOR
TD	TEMPERATURE DIFFERENCE OR TRANSFER DUCT
TEMP	TEMPERATURE
TO	TRANSFER OPENING
TS	TEMPERATURE SENSOR
TSTAT	THERMOSTAT
TYP	TYPICAL
UCD	UNDER CUT DOOR
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VOLT(S)
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER (MANUAL OPPOSED BLADE)
VEL	VELOCITY
VENT	VENTILATION; VENT
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W/	WITH
W	WATT
WB	WET BULB
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP
WF	WATER FILTER

MECHANICAL SHEET LIST

SHEET NUMBER	SHEET NAME
M00-01	MECHANICAL LEGEND
M01-01	LOAD EQUIPMENT FLOW DIAGRAM - LEVEL ONE
M01-02	LOAD EQUIPMENT FLOW DIAGRAM - LEVEL TWO
M01-03	LOAD EQUIPMENT FLOW DIAGRAM - LEVEL THREE
M01-04	CHILLER PLANT FLOW DIAGRAM - LEVEL ONE
M01-05	CHILLER PLANT FLOW DIAGRAM - LEVEL TWO
M02-01	LEVEL 1 - MECHANICAL PIPING PLAN - B1 OVERALL
M02-01A	LEVEL 1 - MECHANICAL PIPING PLAN - B1 SEGMENT A
M02-01B	LEVEL 1 - MECHANICAL PIPING PLAN - B1 SEGMENT B
M02-02	LEVEL 2 - MECHANICAL PIPING PLAN - B1 OVERALL
M02-02A	LEVEL 2 - MECHANICAL PIPING PLAN - B1 SEGMENT A
M02-02B	LEVEL 2 - MECHANICAL PIPING PLAN - B1 SEGMENT B
M02-03	LEVEL 3 - MECHANICAL PIPING PLAN - B1 OVERALL
M02-03A	LEVEL 3 - MECHANICAL PIPING PLAN - B1 SEGMENT A
M02-03B	LEVEL 3 - MECHANICAL PIPING PLAN - B1 SEGMENT B
M02-04	LEVEL ROOF - MECHANICAL PIPING PLAN - B1 OVERALL
M02-04A	LEVEL ROOF - MECHANICAL PIPING PLAN - B1 SEGMENT A
M02-04B	LEVEL ROOF - MECHANICAL PIPING PLAN - B1 SEGMENT B
M03-01	LEVEL 1 - MECHANICAL DUCTWORK PLAN - B1 OVERALL
M03-01A	LEVEL 1 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT A
M03-01B	LEVEL 1 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT B
M03-02	LEVEL 2 - MECHANICAL DUCTWORK PLAN - B1 OVERALL
M03-02A	LEVEL 2 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT A
M03-02B	LEVEL 2 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT B
M03-03	LEVEL 3 - MECHANICAL DUCTWORK PLAN - B1 OVERALL
M03-03A	LEVEL 3 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT A
M03-03B	LEVEL 3 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT B
M03-04	LEVEL ROOF - MECHANICAL DUCTWORK PLAN - B1 OVERALL
M05-01	MECHANICAL DETAILS
M05-02	MECHANICAL DETAILS
M06-01	MECHANICAL SCHEDULES
M06-02	MECHANICAL SCHEDULES
M06-03	MECHANICAL SCHEDULES

DRAWING INDICATORS

DETAIL NUMBER — 1 / M01-23 — DRAWING NUMBER WHERE DETAIL IS DRAWN — DETAIL INDICATION

SECTION NUMBER — 1 / M01-23 — DRAWING NUMBER WHERE DETAIL IS DRAWN — DIRECTION OF VIEW — SECTION INDICATION

NEW WORK SYMBOL

DRAWING ORGANIZATION

HVAC DISCIPLINE PREFIX
GROUP DESIGNATION
DRAWING NUMBER

M00-01	MECHANICAL LEGEND & CHECKLISTS
M01-01	MECHANICAL WATER & AIR FLOW DIAGRAMS
M02-01	MECHANICAL DUCTWORK PLANS
M03-01	MECHANICAL PIPING PLANS
M04-01	MECHANICAL SECTIONS & ENLARGED PLANS
M05-01	MECHANICAL DETAILS
M06-01	MECHANICAL SCHEDULES

CORGAN
kW Mission Critical Engineering Member of WSP
LANGAN
PASE

ISSUES		
1	11.22.2024	SCHEMATIC DESIGN

REVISIONS

kW Mission Critical Engineering
Contact: Jacob Czechan Phone: 414.308.2320

NOT FOR CONSTRUCTION

Date of issue: 11.22.2024

GIC Vernon, LLC

GEP Vernon
BUILDING 1: 3163 East Vernon Avenue Vernon, California 90058
BUILDING 2: 3049 East Vernon Avenue Vernon, California 90058

MECHANICAL LEGEND

JOB 37567.7408
DATE 11.22.2024
SHEET M00-01

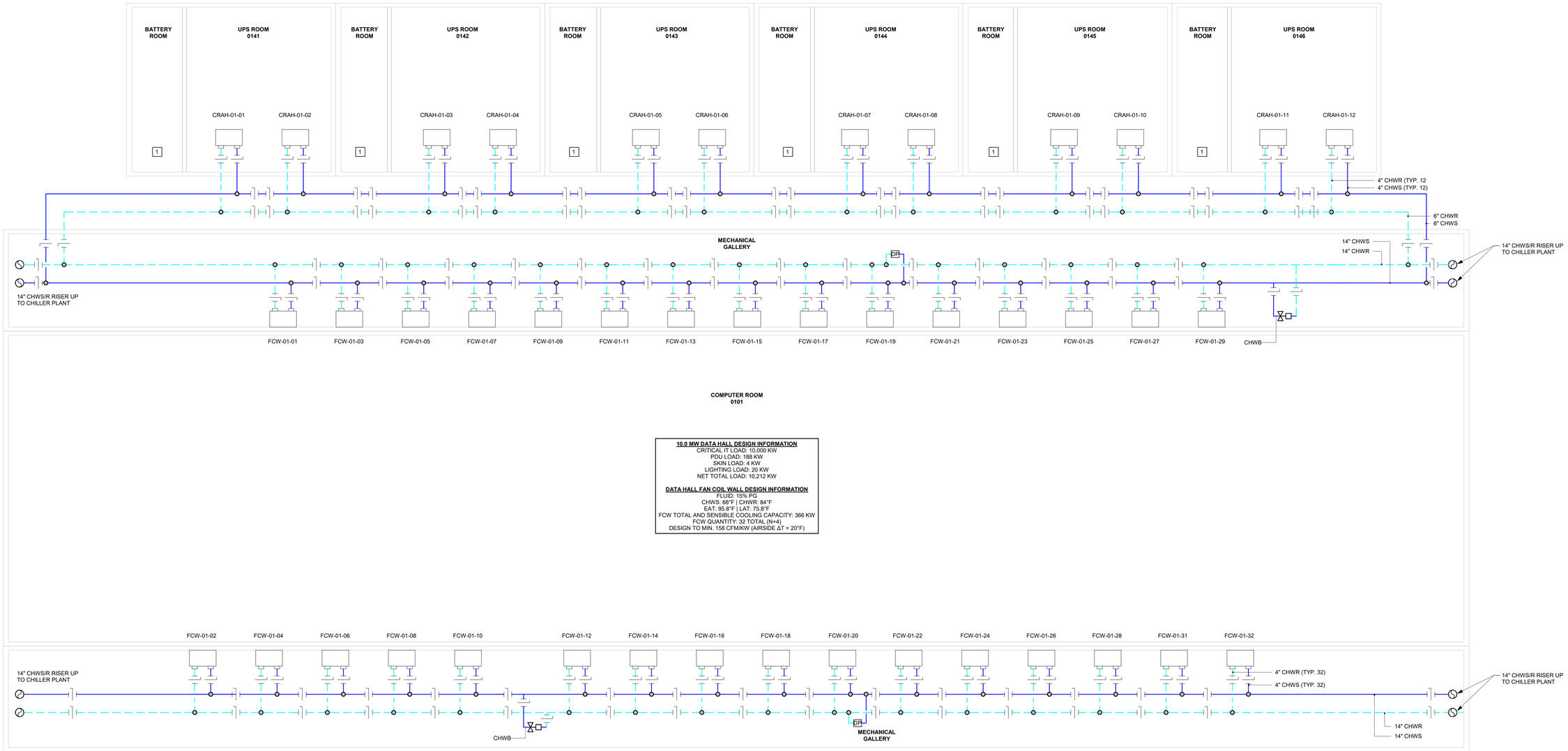
11/22/2024 2:40:42 PM M00-01 MECHANICAL LEGEND

UPS ROOM DESIGN INFORMATION
ELECTRICAL EQUIPMENT LOAD: 111 KW
SKIN LOAD: 2 KW
LIGHTING LOAD: 1 KW
NET TOTAL LOAD: 114 KW

UPS ROOM CRAH DESIGN INFORMATION
FLUID: 15% PG
CHWS: 68°F | CHWR: 84°F
EAT: 90.2°F | LAT: 75.2°F
CRAH TOTAL AND SENSIBLE COOLING CAPACITY: 120 KW
CRAH QUANTITY PER ROOM: 2 (N+1)
DESIGN TO MIN. 158 CFM/KW (AIRSIDE ΔT = 20°F)

KEYED NOTES

1 COOLED BY SPLIT SYSTEM DX UNITS.



10.0 MW DATA HALL DESIGN INFORMATION
CRITICAL IT LOAD: 10,000 KW
PDU LOAD: 188 KW
SKIN LOAD: 4 KW
LIGHTING LOAD: 20 KW
NET TOTAL LOAD: 10,212 KW

DATA HALL FAN COIL WALL DESIGN INFORMATION
FLUID: 15% PG
CHWS: 68°F | CHWR: 84°F
EAT: 95.8°F | LAT: 75.8°F
FCW TOTAL AND SENSIBLE COOLING CAPACITY: 366 KW
FCW QUANTITY: 32 TOTAL (N+4)
DESIGN TO MIN. 158 CFM/KW (AIRSIDE ΔT = 20°F)

1 CHILLED WATER FLOW DIAGRAM - LEVEL 1
N.T.S.

11/22/2024 2:40:44 PM M01-01 LOAD EQUIPMENT FLOW DIAGRAM - LEVEL ONE

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ISSUES		
1	07.24.2024	CONCEPT VERIFICATION
2	11.22.2024	SCHEMATIC DESIGN

REVISIONS

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Contact: Jacob Czechan Phone: 414.308.2320

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11.22.2024

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GEP Vernon
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Vernon, California 90058
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Vernon, California 90058

LOAD EQUIPMENT FLOW DIAGRAM - LEVEL ONE

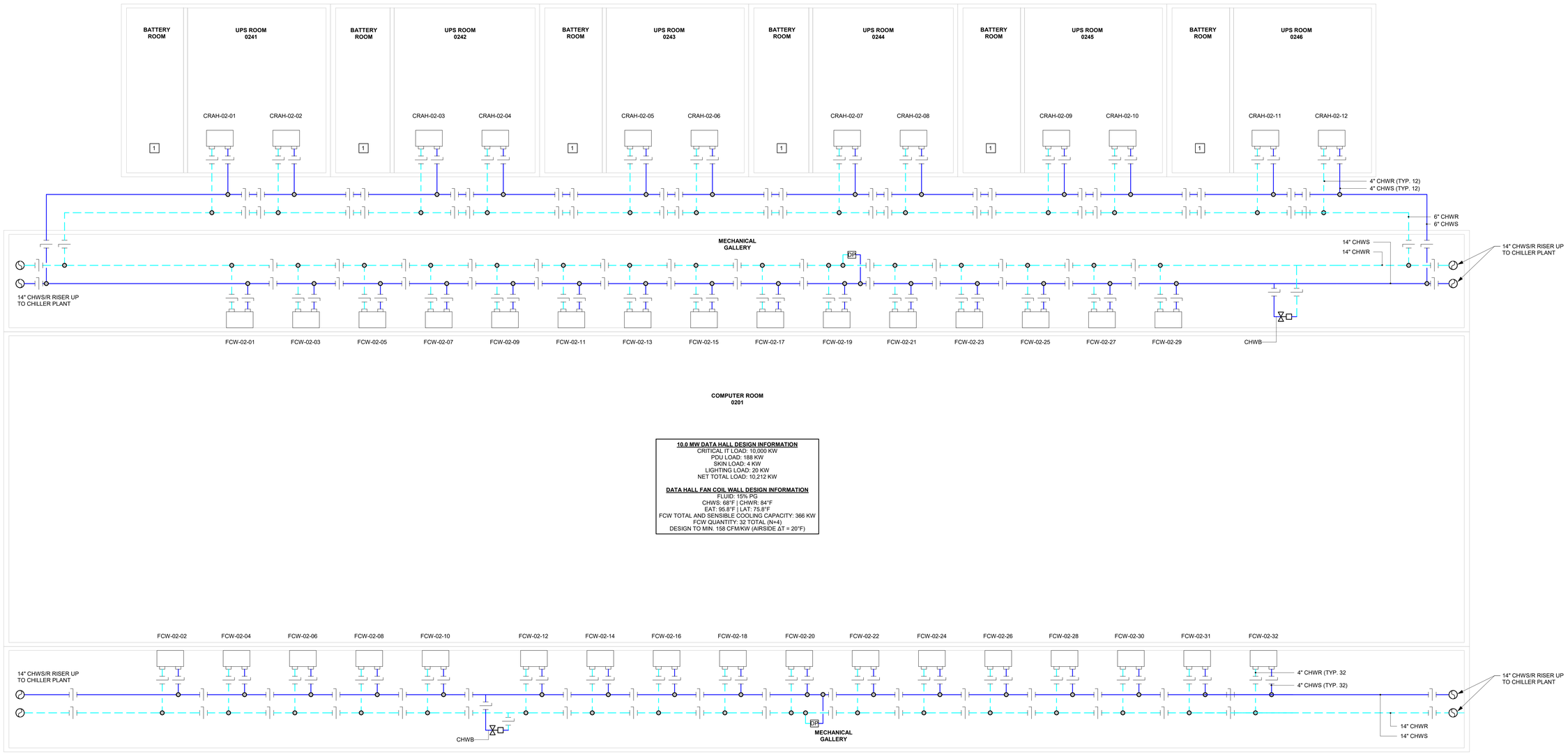
JOB 37567.7408
DATE 11.22.2024
SHEET
M01-01

UPS ROOM DESIGN INFORMATION
ELECTRICAL EQUIPMENT LOAD: 111 KW
SKIN LOAD: 2 KW
LIGHTING LOAD: 1 KW
NET TOTAL LOAD: 114 KW

UPS ROOM CRAH DESIGN INFORMATION
FLUID: 15% PG
CHWS: 68°F | CHWR: 84°F
EAT: 90.2°F | LAT: 75.2°F
CRAH TOTAL AND SENSIBLE COOLING CAPACITY: 120 KW
CRAH QUANTITY PER ROOM: 2 (N+1)
DESIGN TO MIN. 158 CFM/KW (AIRSIDE ΔT = 20°F)

KEYED NOTES

1 COOLED BY SPLIT SYSTEM DX UNITS.



1 CHILLED WATER FLOW DIAGRAM - LEVEL 2
N.T.S.

11/22/2024 2:40:45 PM M01-02 LOAD EQUIPMENT FLOW DIAGRAM - LEVEL TWO

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	ISSUES	
1	07.24.2024	CONCEPT VERIFICATION
2	11.22.2024	SCHEMATIC DESIGN

REVISIONS

kW Mission Critical Engineering
Contact: Jacob Czechan Phone: 414.308.2320

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Date of issue:
11.22.2024

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Vernon, California 90058
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Vernon, California 90058

LOAD EQUIPMENT FLOW DIAGRAM - LEVEL TWO

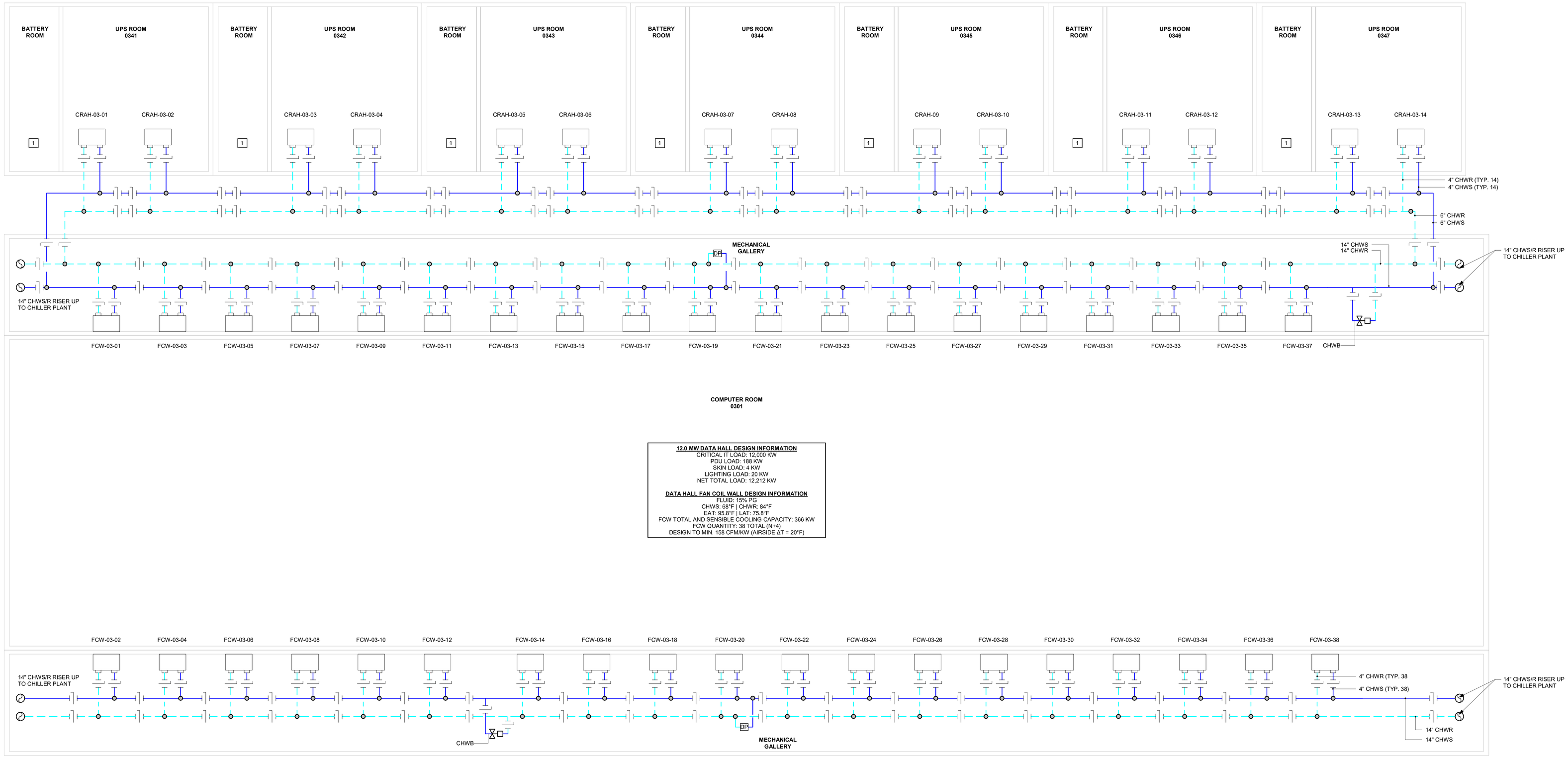
JOB 37567.7408
DATE 11.22.2024
SHEET
M01-02

UPS ROOM DESIGN INFORMATION
ELECTRICAL EQUIPMENT LOAD: 111 KW
SKIN LOAD: 2 KW
LIGHTING LOAD: 1 KW
NET TOTAL LOAD: 114 KW

UPS ROOM CRAH DESIGN INFORMATION
FLUID: 15% PG
CHWS: 68°F | CHWR: 84°F
EAT: 90.2°F | LAT: 75.2°F
CRAH TOTAL AND SENSIBLE COOLING CAPACITY: 120 KW
CRAH QUANTITY PER ROOM: 2 (N+1)
DESIGN TO MIN. 158 CFM/KW (AIRSIDE ΔT = 20°F)

KEYED NOTES

1 COOLED BY SPLIT SYSTEM DX UNITS.



12.0 MW DATA HALL DESIGN INFORMATION
CRITICAL IT LOAD: 12,000 KW
PDU LOAD: 188 KW
SKIN LOAD: 4 KW
LIGHTING LOAD: 20 KW
NET TOTAL LOAD: 12,212 KW

DATA HALL FAN COIL WALL DESIGN INFORMATION
FLUID: 15% PG
CHWS: 68°F | CHWR: 84°F
EAT: 95.8°F | LAT: 75.8°F
FCW TOTAL AND SENSIBLE COOLING CAPACITY: 366 KW
FCW QUANTITY: 38 TOTAL (N+4)
DESIGN TO MIN. 158 CFM/KW (AIRSIDE ΔT = 20°F)

1 CHILLED WATER FLOW DIAGRAM - LEVEL 3
N.T.S.

11/22/2024 2:40:47 PM M01-03 LOAD EQUIPMENT FLOW DIAGRAM - LEVEL THREE

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	ISSUES	
1	07.24.2024	CONCEPT VERIFICATION
2	11.22.2024	SCHEMATIC DESIGN

REVISIONS

kW Mission Critical Engineering
Contact: Jacob Czechan Phone: 414.308.2320

NOT FOR CONSTRUCTION

Date of issue:
11.22.2024

GIC Vernon, LLC

GEP Vernon
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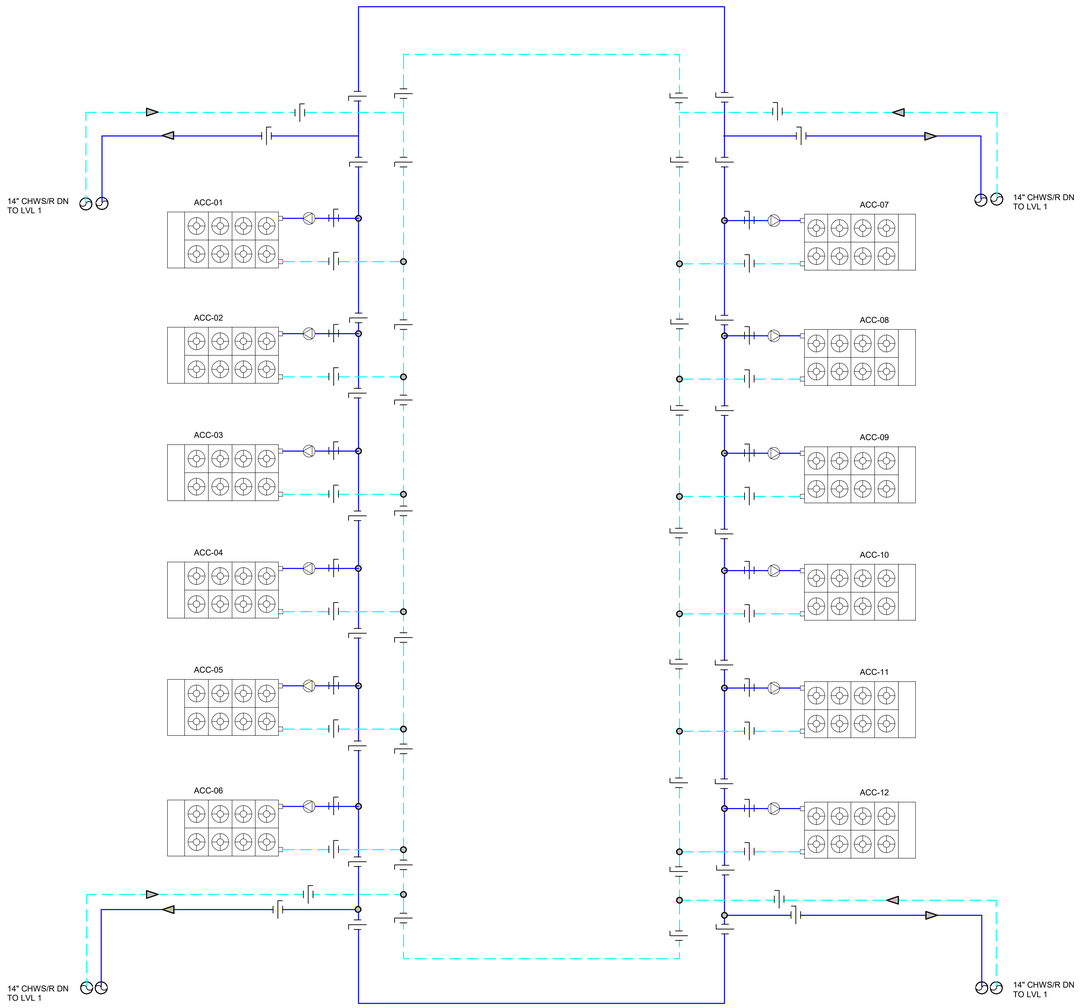
Vernon, California 90058
BUILDING 2: 3049 East Vernon Avenue
Vernon, California 90058

LOAD EQUIPMENT FLOW DIAGRAM - LEVEL THREE

JOB 37567.7408
DATE 11.22.2024
SHEET
M01-03

CHILLER PLANT 1
CRITICAL IT LOAD: 10,000 KW
FAN HEAT LOAD: 700 KW
PDU LOAD: 188 KW
UPS ROOM LOAD: 818 KW
SKIN LOAD: 20 KW
LIGHTING LOAD: 28 KW
TOTAL LOAD: 11,754 KW
CHILLER QUANTITY: 12 (N+2)

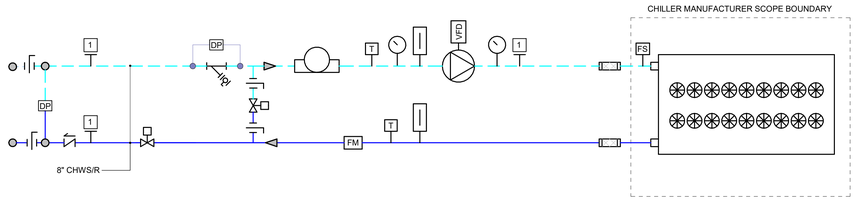
CHILLER INFORMATION
FLUID: 15% PG
CHWS: 68°F | CHWR: 84°F
AMBIENT AIR TEMPERATURE: 108.0°F
COOLING CAPACITY: 350 TONS / 1,230 KW



1 CHILLER PLANT FLOW DIAGRAM 1 LVL 1
12" = 1'-0"

KEYED NOTES

1 PRESSURE & TEMPERATURE PORT



2 CHILLER LINEUP PIPING DETAIL
N.T.S.

CORGAN
kW Mission Critical Engineering
Member of WSP
LANGAN
PASE

	ISSUES	
1	07.24.2024	CONCEPT VERIFICATION
2	11.22.2024	SCHEMATIC DESIGN

	REVISIONS	

kW Mission Critical Engineering
Contact: Jacob Czechan Phone: 414.308.2320

NOT FOR CONSTRUCTION

Date of issue:
11.22.2024

GIC Vernon, LLC

GEP Vernon
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Vernon, California 90058
BUILDING 2: 3049 East Vernon Avenue
Vernon, California 90058

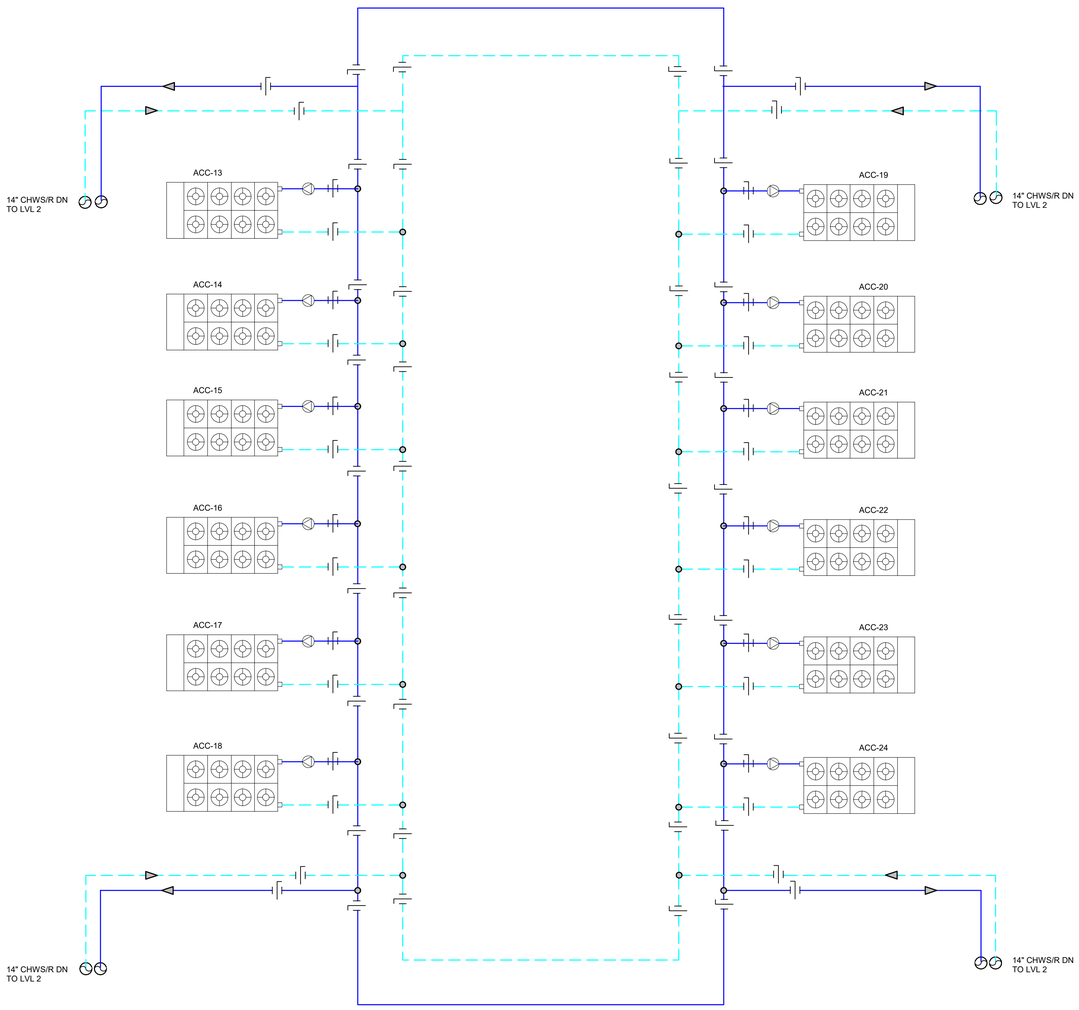
CHILLER PLANT FLOW DIAGRAM - LEVEL ONE

JOB 37567.7408
DATE 11.22.2024
SHEET
M01-04

11/22/2024 2:40:48 PM M01-04 CHILLER PLANT FLOW DIAGRAM - LEVEL ONE

CHILLER PLANT 2
CRITICAL IT LOAD: 10,000 KW
FAN HEAT LOAD: 700 KW
PDU LOAD: 188 KW
UPS ROOM LOAD: 818 KW
SKIN LOAD: 20 KW
LIGHTING LOAD: 28 KW
TOTAL LOAD: 11,754 KW
CHILLER QUANTITY: 12 (N+2)

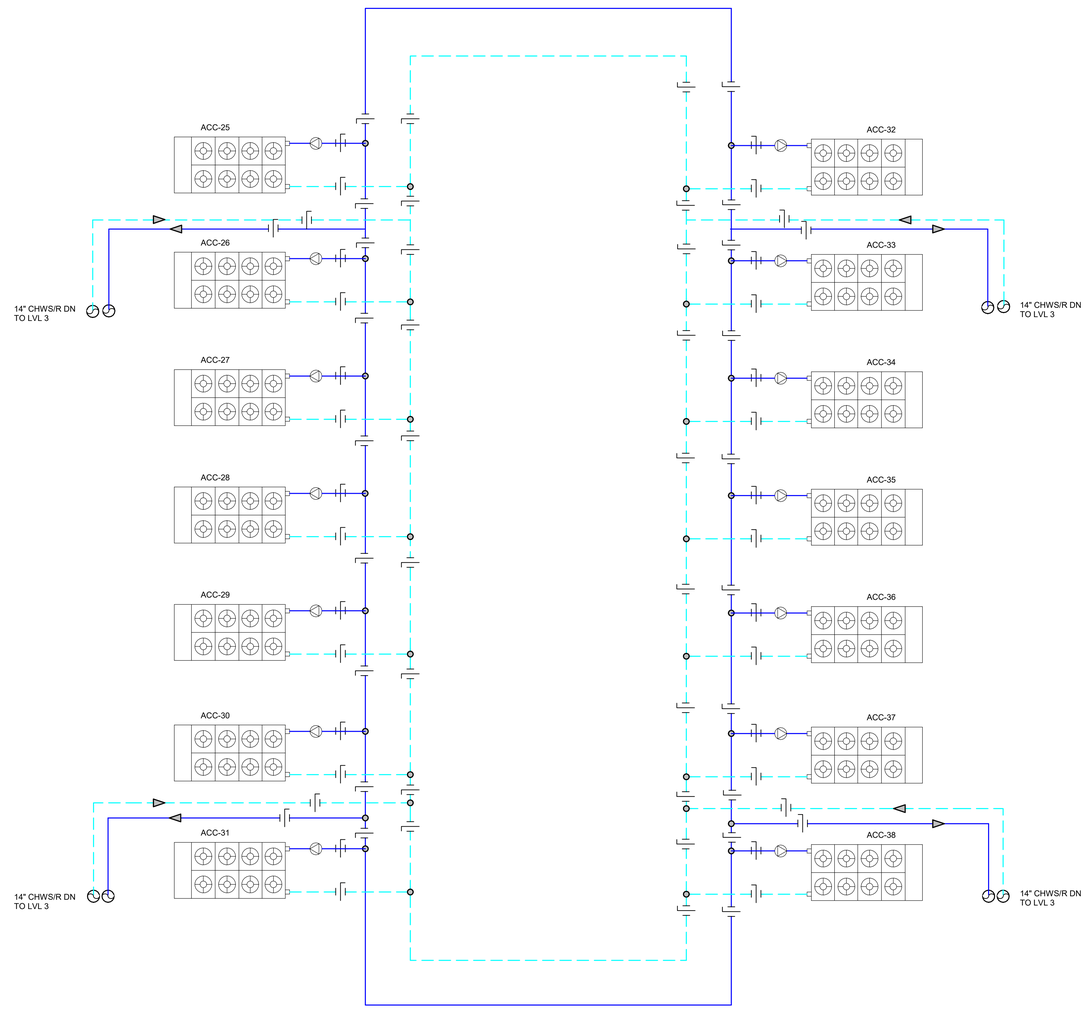
CHILLER INFORMATION
FLUID: 15% PG
CHWS: 68°F | CHWR: 84°F
AMBIENT AIR TEMPERATURE: 108.0°F
COOLING CAPACITY: 350 TONS / 1,230 KW



1 CHILLER PLANT FLOW DIAGRAM 1 LVL 2
N.T.S.

CHILLER PLANT 3
CRITICAL IT LOAD: 12,000 KW
FAN HEAT LOAD: 700 KW
PDU LOAD: 188 KW
UPS ROOM LOAD: 818 KW
SKIN LOAD: 20 KW
LIGHTING LOAD: 28 KW
TOTAL LOAD: 13,754 KW
CHILLER QUANTITY: 14 (N+2)

CHILLER INFORMATION
FLUID: 15% PG
CHWS: 68°F | CHWR: 84°F
AMBIENT AIR TEMPERATURE: 108.0°F
COOLING CAPACITY: 350 TONS / 1,230 KW



2 CHILLER PLANT FLOW DIAGRAM 1 LVL 3
N.T.S.

CORGAN
kW Mission Critical Engineering Member of WSP
LANGAN
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	ISSUES	
1	07.24.2024	CONCEPT VERIFICATION
2	11.22.2024	SCHEMATIC DESIGN

	REVISIONS	

kW Mission Critical Engineering
Contact: Jacob Czechan Phone: 414.308.2320

NOT FOR CONSTRUCTION

Date of issue:
11.22.2024

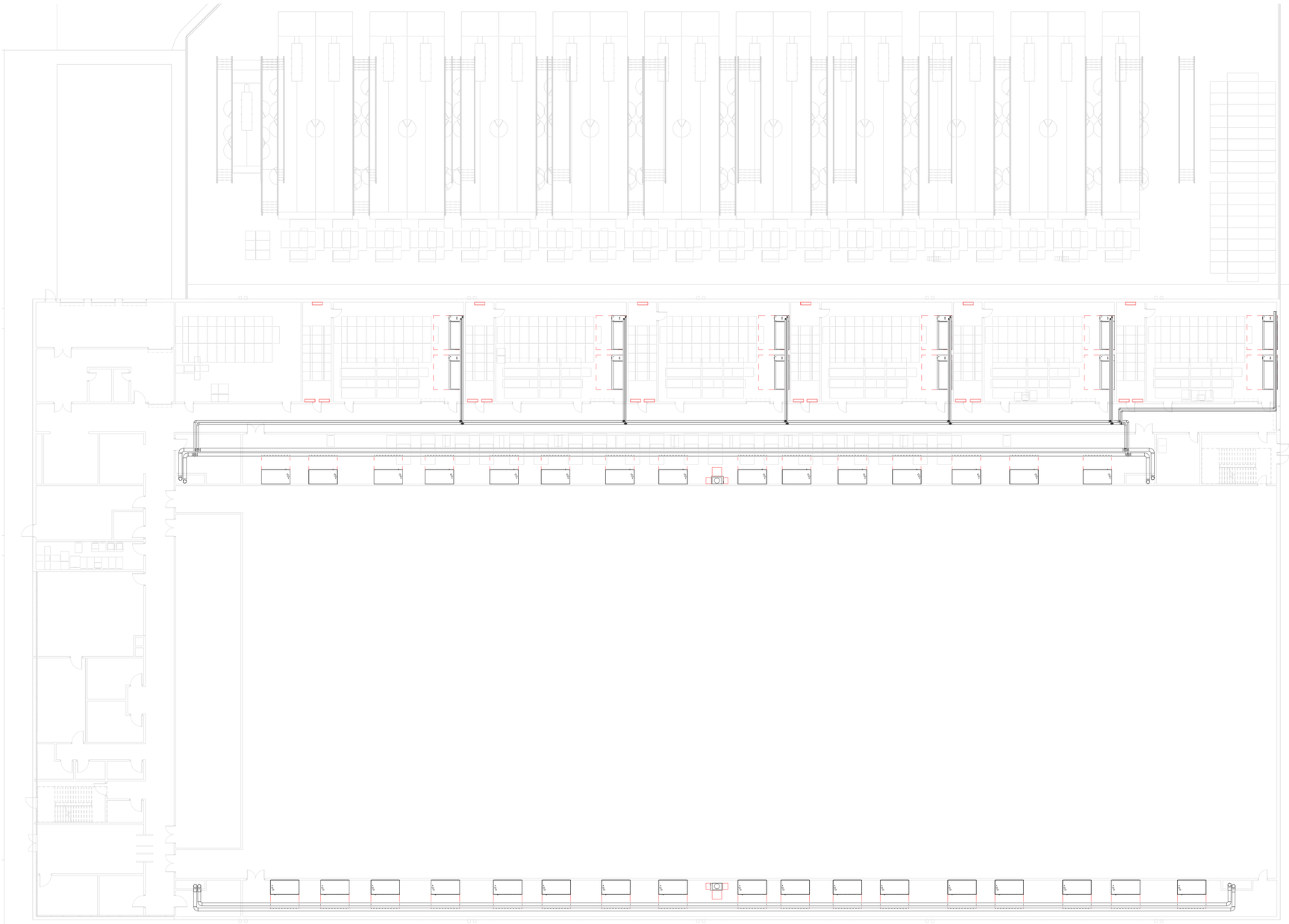
GIC Vernon, LLC

GEP Vernon
BUILDING 1: 3163 East Vernon Avenue
Vernon, California 90058
BUILDING 2: 3049 East Vernon Avenue
Vernon, California 90058

CHILLER PLANT FLOW DIAGRAM - LEVEL TWO

JOB 37567.7408
DATE 11.22.2024
SHEET
M01-05

11/22/2024 2:40:51 PM M01-05 CHILLER PLANT FLOW DIAGRAM - LEVEL TWO



1 LEVEL 1 - MECHANICAL PIPING PLAN - B1 OVERALL
1/16" = 1'-0"

GENERAL NOTES

1. SIZING OF OPENINGS FOR THROUGH WALL PENETRATIONS OF ANY ELEMENT/SYSTEM/ASSEMBLY SUPPORTED FROM ABOVE MUST TAKE INTO ACCOUNT THE MAXIMUM ANTICIPATED BUILDING DEFLECTION, BOTH LATERALLY AND VERTICALLY. WHERE ADDITIONAL DEFLECTION IS POSSIBLE UPON FINAL LOADING OF AN ASSEMBLY OR SYSTEM, THE THROUGH WALL PENETRATION OPENINGS SHALL BE SIZED FOR THE ULTIMATE CONDITION. (EX: CHILLER WATER PIPE). CONSIDERATIONS OF THROUGH WALL PENETRATION OPENING SIZES TO INCLUDE PENETRATIONS THROUGH INTERIOR PARTITIONS AND EXTERIOR BUILDING ENVELOPE OF ALL TYPES.
2. FLEXIBLE CONNECTIONS TO BE PROVIDED TO ANY ELEMENT/ASSEMBLY FOR WHICH ONE OF THE FOLLOWING CONDITIONS APPLY. THE ELEMENT/ASSEMBLY CROSSES A SEISMIC JOINT, EXPANSION JOINT, IS SUBJECT TO STRUCTURAL DEFLECTION OR INTERSTORY BUILDING DRIFT. WHERE ADJACENT SECTIONS OF A BRANCH ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, OR WHERE IT TERMINATES WITH A CONNECTION TO EQUIPMENT THAT IS ANCHORED TO A DIFFERENT STRUCTURAL ELEMENT FROM THE ONE SUPPORTING IT.
3. HEAT TRACE ALL PIPE EXPOSED TO AMBIENT CONDITIONS.
4. THE PIPING NEW POINTS OF CONNECTION SHALL BE VERIFIED IN FIELD FOR EXISTENCE, LOCATION, SIZE, AND CONDITION. CONTRACTOR TO VISUALLY INSPECT AND ACTUATE THE EXISTING VALVES PRIOR TO STARTING WORK. REPORT FINDINGS TO OWNER. THIS WORK SHALL BE COORDINATED WITH FACILITY OPERATIONS PRIOR TO INTEGRATING THE EXISTING SYSTEM WITH NEW THE SYSTEM.
5. ALL REFRIGERANT RETURN BETWEEN ACCU UNITS AND AC UNITS CONSIST OF A HIGH AND LOW PRESSURE LINE.
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8. ENTIRE REFRIGERANT SYSTEM SHALL HOLD A 500 MICRON VACUUM FOR AT LEAST 12 HOURS PRIOR TO ADDING REFRIGERANT CHARGE.
9. HORIZONTAL RUNS OF CONDENSATE PIPING SHALL HAVE A PITCH OF 1/8" PER FOOT.
10. ALL VALVES AND PIPE ACCESSORIES UNDER RAISED FLOOR TO BE ACCESSIBLE.

CORGAN
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1	11.22.2024	SCHEMATIC DESIGN

△	REVISIONS	

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Contact: Jacob Czechan Phone: 414.308.2320

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11.22.2024

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GEP Vernon

BUILDING 1: 3163 East Vernon Avenue
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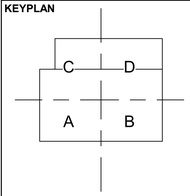
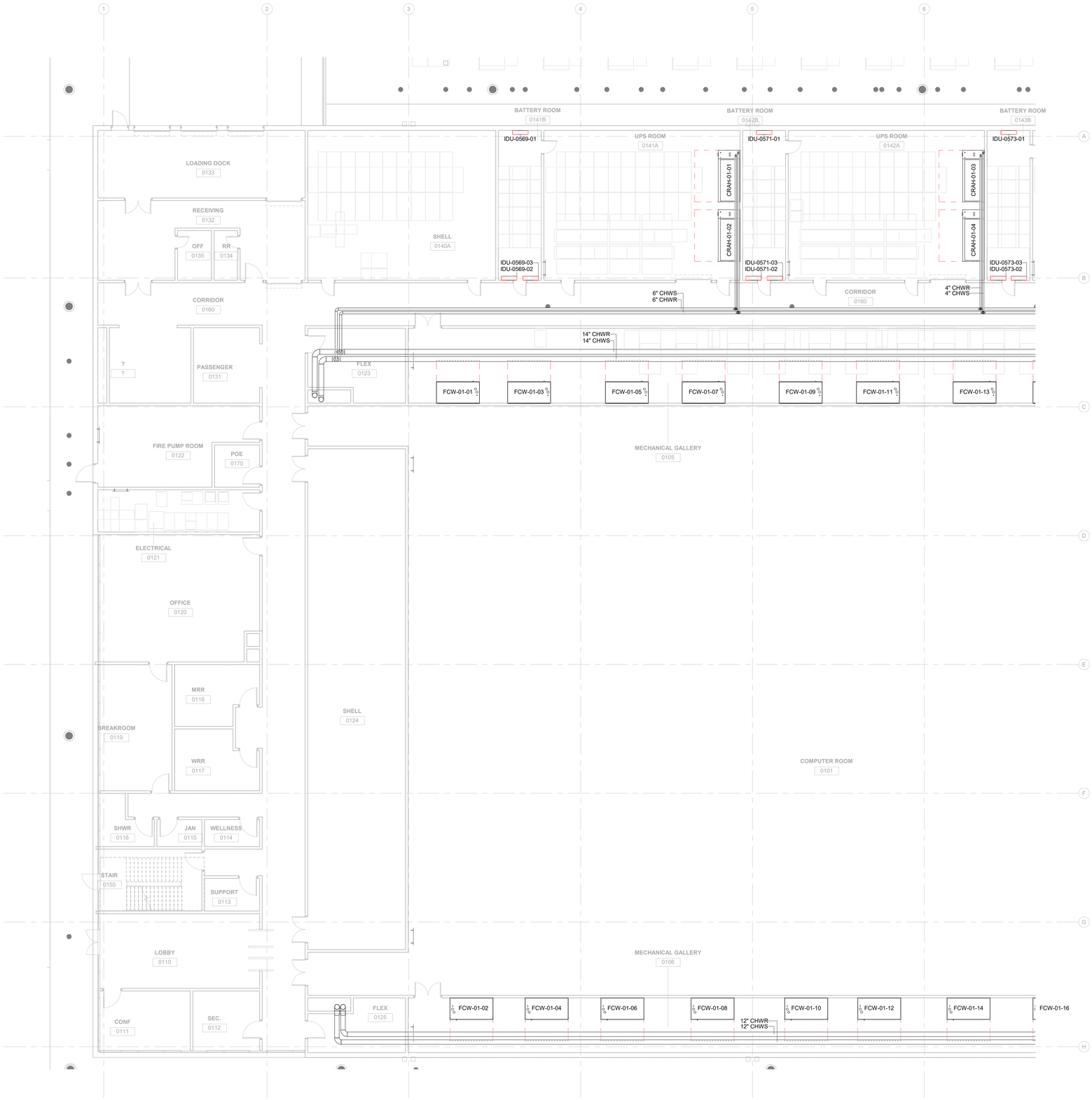
KEYPLAN



LEVEL 1 - MECHANICAL PIPING PLAN - B1 OVERALL

JOB 37567.7408
DATE 11.22.2024
SHEET
M02-01

11/22/2024 2:41:02 PM M02-01 LEVEL 1 - MECHANICAL PIPING PLAN - B1 OVERALL



1 LEVEL 1 - MECHANICAL PIPING PLAN - B1 SEGMENT B
1" = 10'-0"

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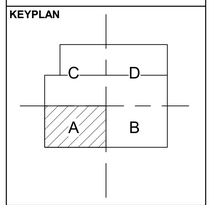
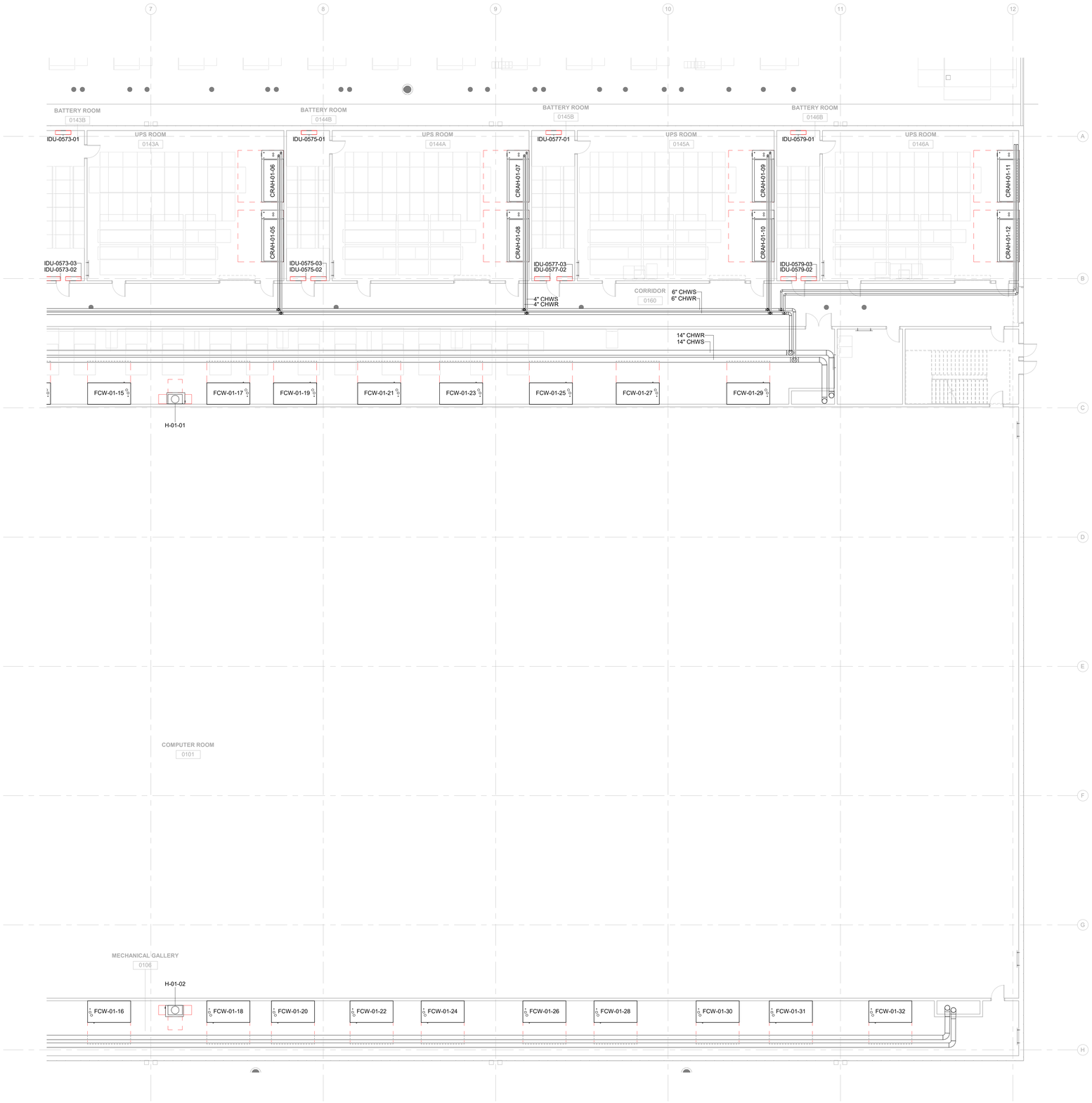


LEVEL 1 - MECHANICAL PIPING PLAN - B1 SEGMENT A

JOB 37567.7408
DATE 11.22.2024
SHEET
M02-01A

11/22/2024 2:41:04 PM M02-01A LEVEL 1 - MECHANICAL PIPING PLAN - B1 SEGMENT A



1 LEVEL 1 - MECHANICAL PIPING PLAN - B1 SEGMENT A
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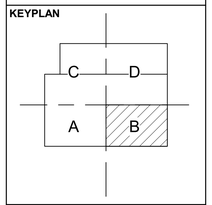
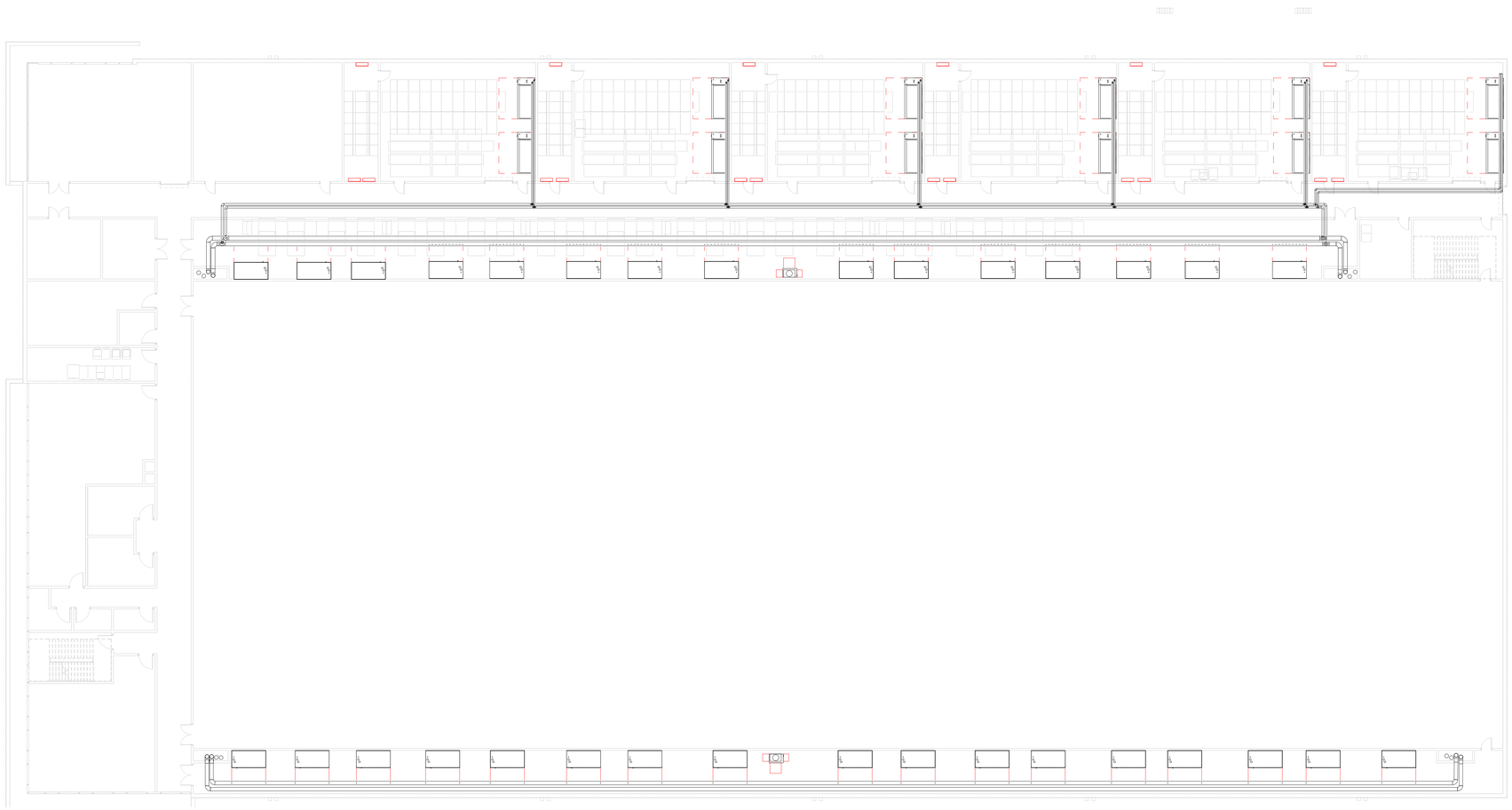


LEVEL 1 - MECHANICAL PIPING PLAN - B1 SEGMENT B

JOB 37567.7408
DATE 11.22.2024
SHEET
M02-01B

11/22/2024 2:41:06 PM M02-01B LEVEL 1 - MECHANICAL PIPING PLAN - B1 SEGMENT B



1 LEVEL 2 - MECHANICAL PIPING PLAN - B1 OVERALL
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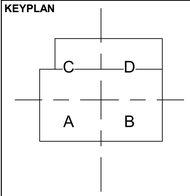
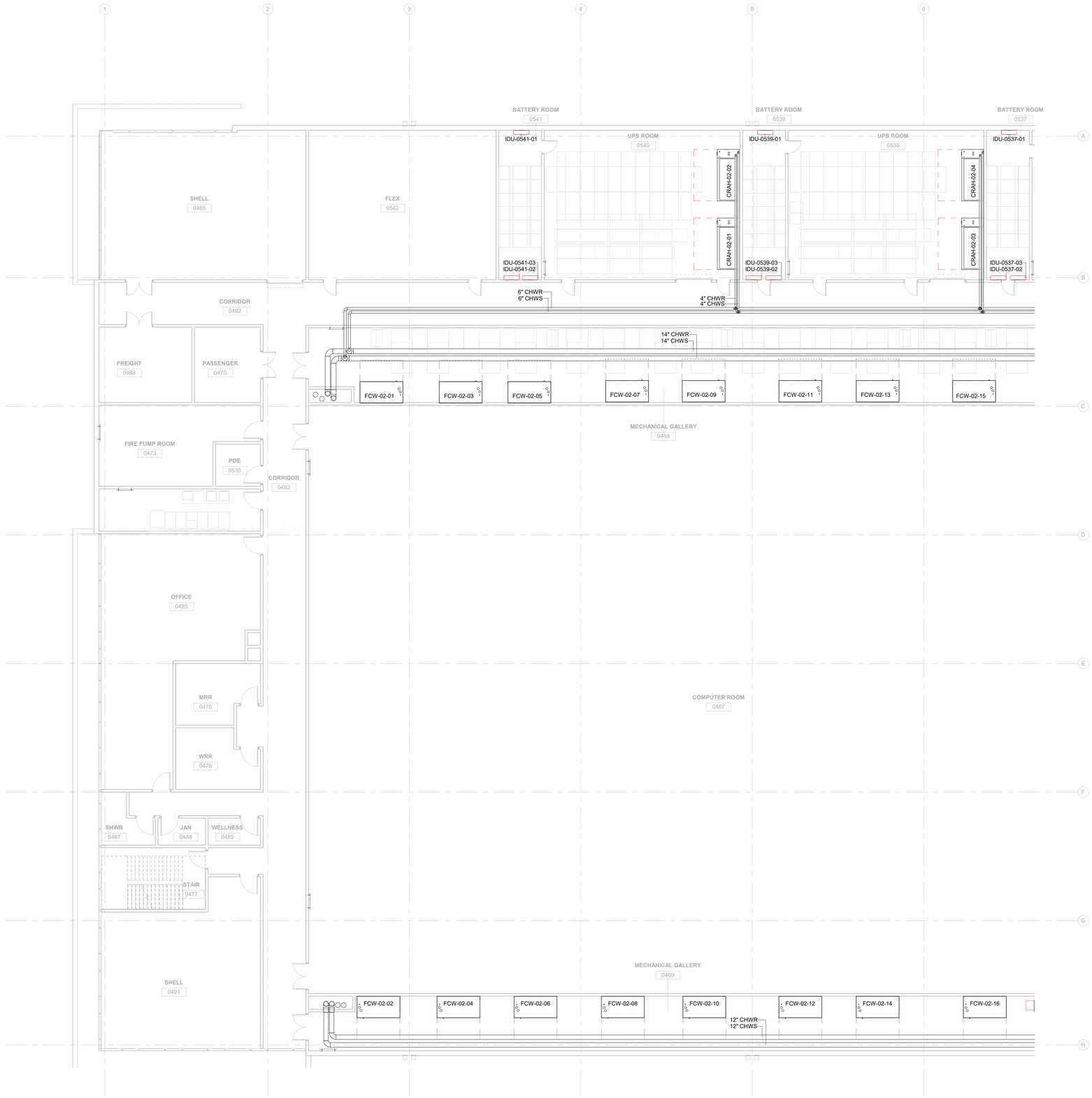


LEVEL 2 - MECHANICAL PIPING PLAN - B1 OVERALL

JOB 37567.7408
DATE 11.22.2024
SHEET
M02-02

11/22/2024 2:41:09 PM M02-02 LEVEL 2 - MECHANICAL PIPING PLAN - B1 OVERALL



1 LEVEL 2 - MECHANICAL PIPING PLAN - B1 SEGMENT B
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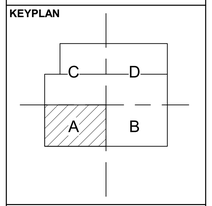

LEVEL 2 - MECHANICAL PIPING PLAN - B1 SEGMENT A

JOB 37567.7408
DATE 11.22.2024
SHEET
M02-02A

11/22/2024 2:41:12 PM M02-02A LEVEL 2 - MECHANICAL PIPING PLAN - B1 SEGMENT A

1 LEVEL 2 - MECHANICAL PIPING PLAN - B1 SEGMENT A
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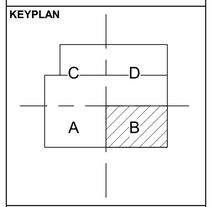
Vernon, California 90058
BUILDING 2: 3049 East Vernon Avenue
Vernon, California 90058

KEYPLAN



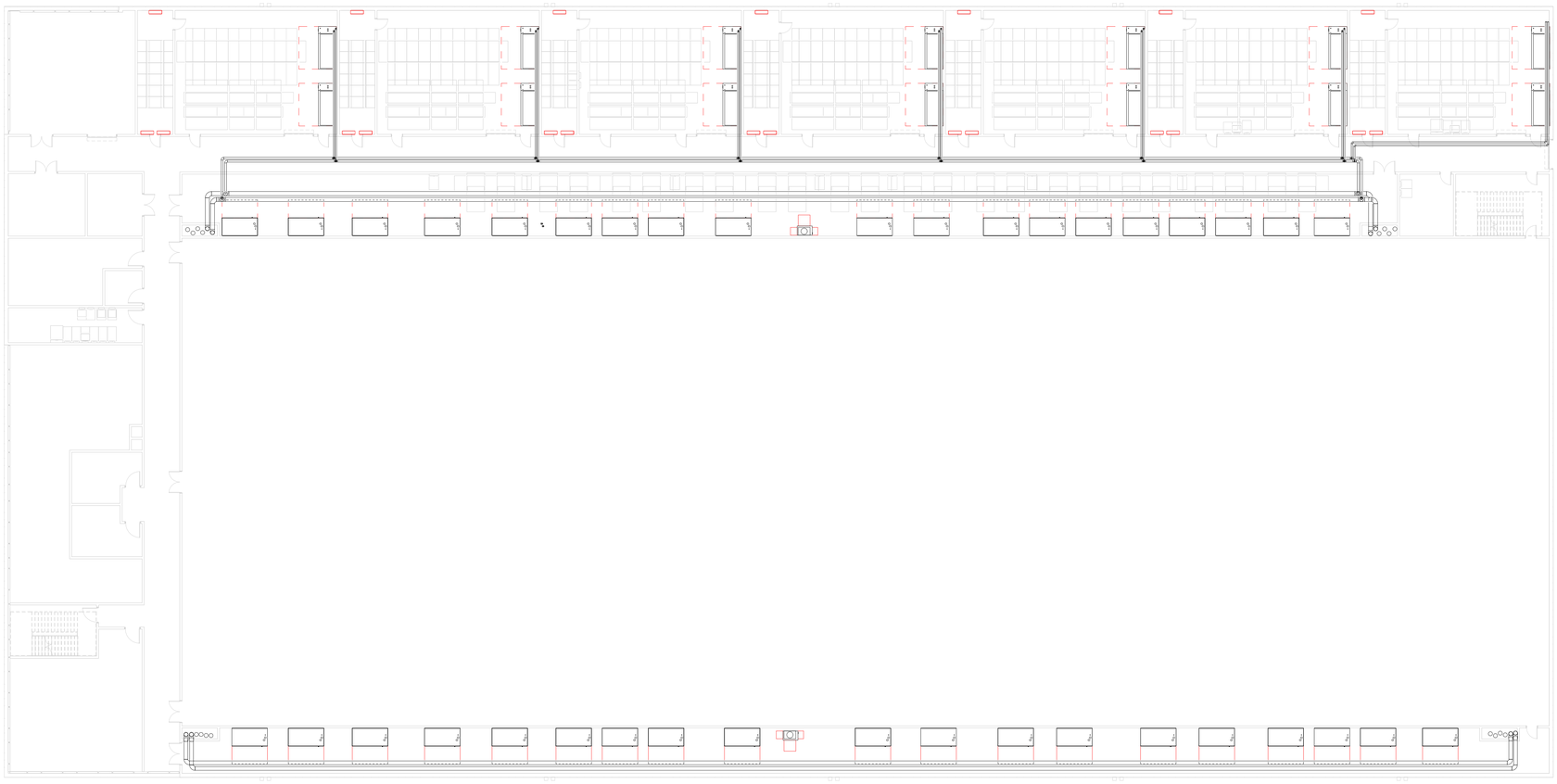
LEVEL 2 - MECHANICAL PIPING PLAN - B1 SEGMENT B

JOB 37567.7408
DATE 11.22.2024
SHEET
M02-02B

11/22/2024 2:41:16 PM M02-02B LEVEL 2 - MECHANICAL PIPING PLAN - B1 SEGMENT B

GENERAL NOTES

1. SIZING OF OPENINGS FOR THROUGH WALL PENETRATIONS OF ANY ELEMENT/SYSTEM/ASSEMBLY SUPPORTED FROM ABOVE MUST TAKE INTO ACCOUNT THE MAXIMUM ANTICIPATED BUILDING DEFLECTION, BOTH LATERALLY AND VERTICALLY. WHERE ADDITIONAL DEFLECTION IS POSSIBLE UPON FINAL LOADING OF AN ASSEMBLY OR SYSTEM, THE THROUGH WALL PENETRATION OPENINGS SHALL BE SIZED FOR THE ULTIMATE CONDITION. (EX: CHILLER WATER PIPE). CONSIDERATIONS OF THROUGH WALL PENETRATION OPENING SIZES TO INCLUDE PENETRATIONS THROUGH INTERIOR PARTITIONS AND EXTERIOR BUILDING ENVELOPE OF ALL TYPES.
2. FLEXIBLE CONNECTIONS TO BE PROVIDED TO ANY ELEMENT/ASSEMBLY FOR WHICH ONE OF THE FOLLOWING CONDITIONS APPLY. THE ELEMENT/ASSEMBLY CROSSES A SEISMIC JOINT, EXPANSION JOINT, IS SUBJECT TO STRUCTURAL DEFLECTION OR INTERSTORY BUILDING DRIFT. WHERE ADJACENT SECTIONS OF A BRANCH ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS, OR WHERE IT TERMINATES WITH A CONNECTION TO EQUIPMENT THAT IS ANCHORED TO A DIFFERENT STRUCTURAL ELEMENT FROM THE ONE SUPPORTING IT.
3. HEAT TRACE ALL PIPE EXPOSED TO AMBIENT CONDITIONS.
4. THE PIPING NEW POINTS OF CONNECTION SHALL BE VERIFIED IN FIELD FOR EXISTENCE, LOCATION, SIZE, AND CONDITION. CONTRACTOR TO VISUALLY INSPECT AND ACTUATE THE EXISTING VALVES PRIOR TO STARTING WORK. REPORT FINDINGS TO OWNER. THIS WORK SHALL BE COORDINATED WITH FACILITY OPERATIONS PRIOR TO INTEGRATING THE EXISTING SYSTEM WITH NEW THE SYSTEM.
5. ALL REFRIGERANT RETURN BETWEEN ACCU UNITS AND AC UNITS CONSIST OF A HIGH AND LOW PRESSURE LINE.
6. REFRIGERANT PIPE ROUTING RUN LENGTH AND CHANGE IN ELEVATION SHALL BE REVIEWED BY MANUFACTURER. MANUFACTURER SHALL PROVIDE SIZES FOR ALL REFRIGERANT LINES SETS AND INCLUDE TRAP LOCATIONS AS REQUIRED.
7. CONTRACTOR IS RESPONSIBLE TO PROVIDE REFRIGERANT IN SUFFICIENT QUANTITY TO FILL FINISHED SYSTEM TO MANUFACTURER'S RECOMMENDED LEVEL.
8. ENTIRE REFRIGERANT SYSTEM SHALL HOLD A 500 MICRON VACUUM FOR AT LEAST 12 HOURS PRIOR TO ADDING REFRIGERANT CHARGE.
9. HORIZONTAL RUNS OF CONDENSATE PIPING SHALL HAVE A PITCH OF 1/8" PER FOOT.
10. ALL VALVES AND PIPE ACCESSORIES UNDER RAISED FLOOR TO BE ACCESSIBLE.



1 LEVEL 3 - MECHANICAL PIPING PLAN - B1 OVERALL
1/16" = 1'-0"

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ISSUES		
1	11.22.2024	SCHEMATIC DESIGN

REVISIONS

kW Mission Critical Engineering
Contact: Jacob Czechan Phone: 414.308.2320

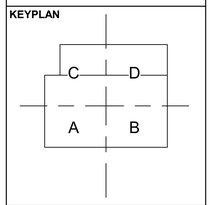
NOT FOR CONSTRUCTION

Date of issue:
11.22.2024

GIC Vernon, LLC

GEP Vernon
BUILDING 1: 3163 East Vernon Avenue
Vernon, California 90058
BUILDING 2: 3049 East Vernon Avenue
Vernon, California 90058

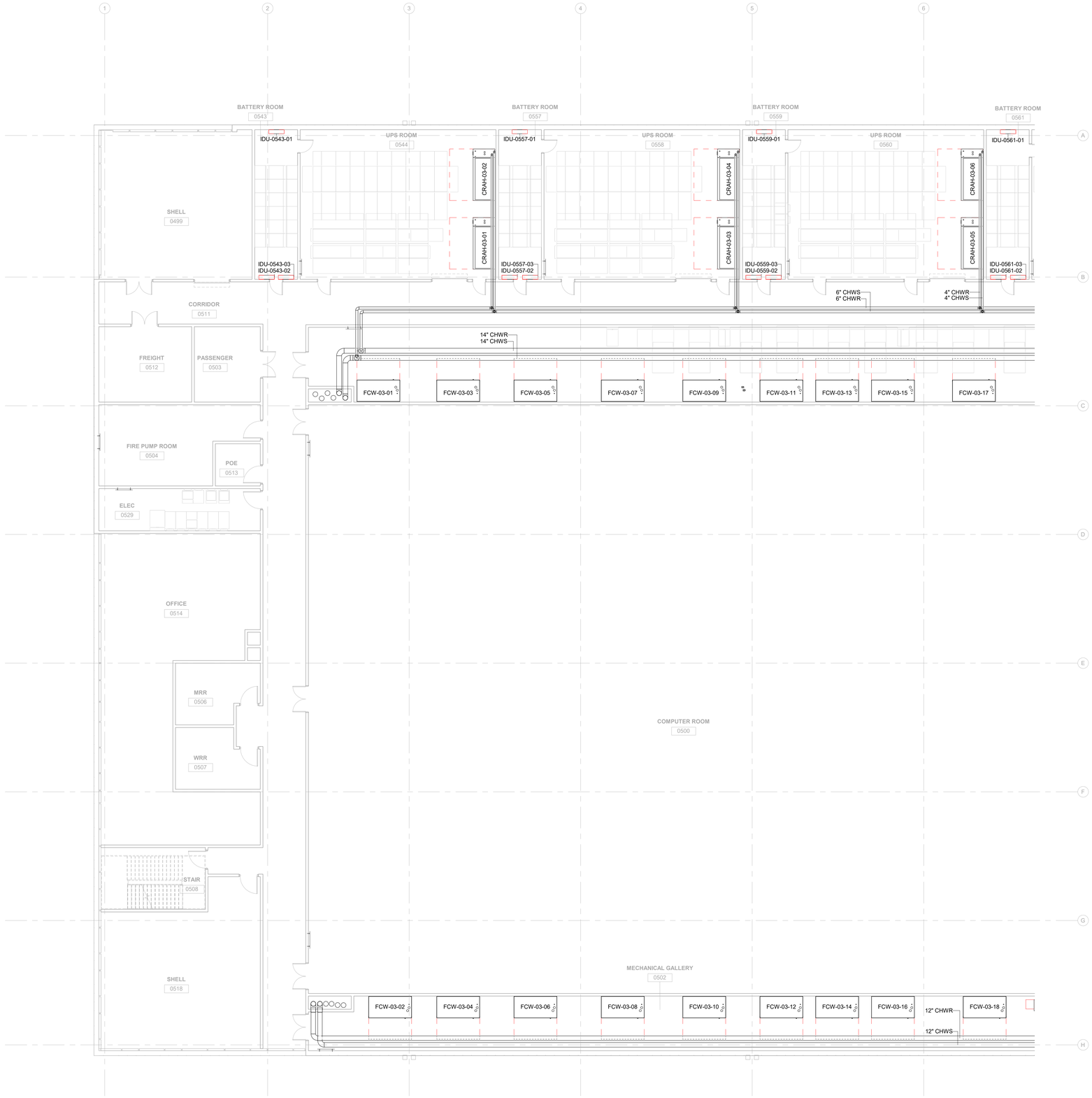
KEYPLAN



LEVEL 3 - MECHANICAL PIPING PLAN - B1 OVERALL

JOB 37567.7408
DATE 11.22.2024
SHEET
M02-03

11/22/2024 2:41:26 PM M02-03 LEVEL 3 - MECHANICAL PIPING PLAN - B1 OVERALL



1 LEVEL 3 - MECHANICAL PIPING PLAN - B1 SEGMENT B
1" = 10'-0"

GENERAL NOTES

1. SIZING OF OPENINGS FOR THROUGH WALL PENETRATIONS OF ANY ELEMENT/SYSTEM/ASSEMBLY SUPPORTED FROM ABOVE MUST TAKE INTO ACCOUNT THE MAXIMUM ANTICIPATED BUILDING DEFLECTION, BOTH LATERALLY AND VERTICALLY. WHERE ADDITIONAL DEFLECTION IS POSSIBLE UPON FINAL LOADING OF AN ASSEMBLY OR SYSTEM, THE THROUGH WALL PENETRATION OPENINGS SHALL BE SIZED FOR THE ULTIMATE CONDITION. (EX: CHILLER WATER PIPE). CONSIDERATIONS OF THROUGH WALL PENETRATION OPENING SIZES TO INCLUDE PENETRATIONS THROUGH INTERIOR PARTITIONS AND EXTERIOR BUILDING ENVELOPE OF ALL TYPES.
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Date of issue:
11.22.2024

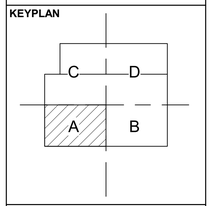
GIC Vernon, LLC

GEP Vernon

BUILDING 1: 3163 East Vernon Avenue
Vernon, California 90058

BUILDING 2: 3049 East Vernon Avenue
Vernon, California 90058

KEYPLAN



LEVEL 3 - MECHANICAL PIPING PLAN - B1 SEGMENT A

JOB 37567.7408
DATE 11.22.2024
SHEET
M02-03A

11/22/2024 2:41:35 PM M02-03A LEVEL 3 - MECHANICAL PIPING PLAN - B1 SEGMENT A

1 LEVEL 3 - MECHANICAL PIPING PLAN - B1 SEGMENT A
1" = 10'-0"

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11.22.2024

GIC Vernon, LLC

GEP Vernon
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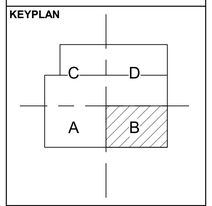
Vernon, California 90058

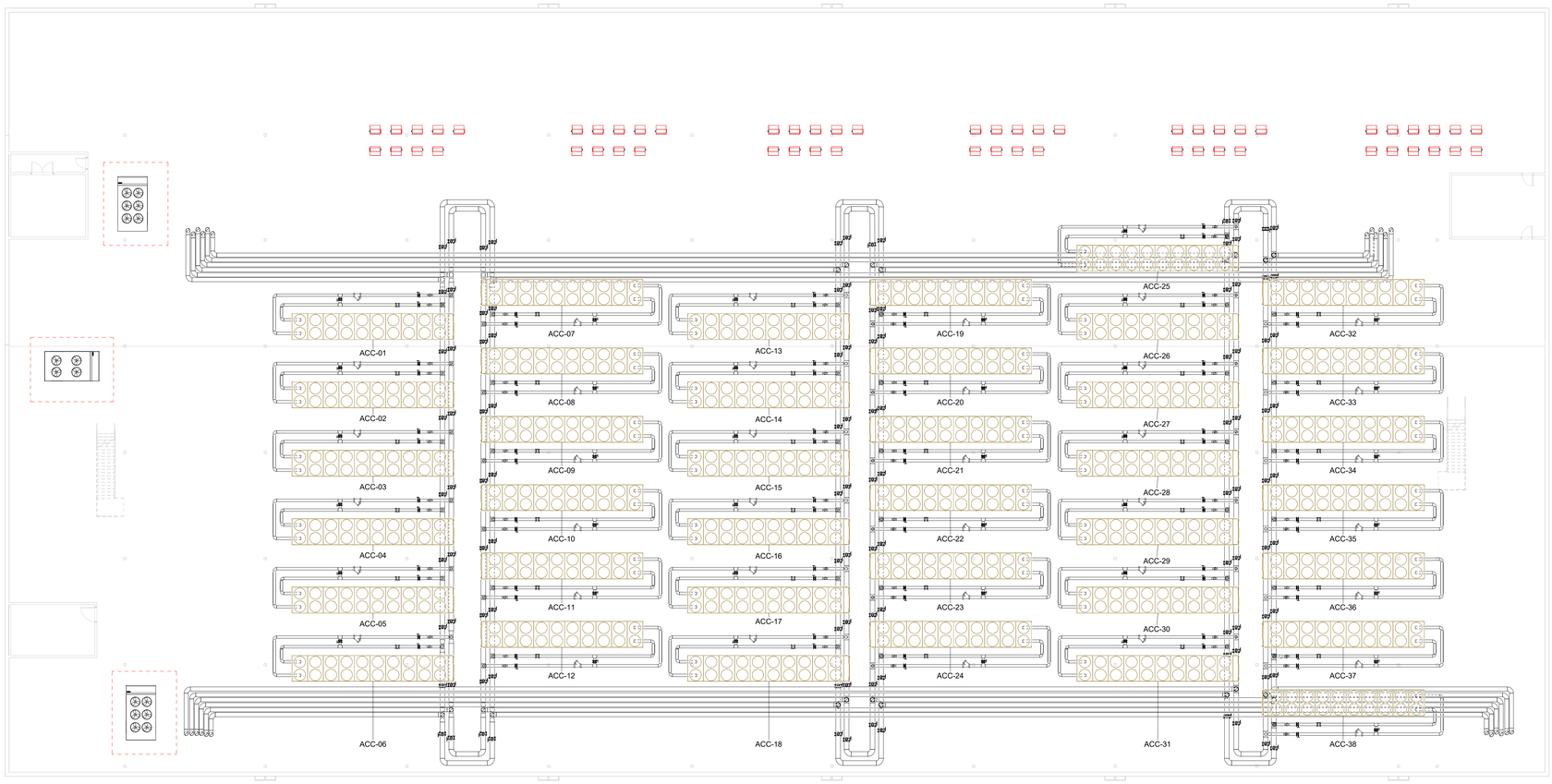
KEYPLAN



LEVEL 3 - MECHANICAL PIPING PLAN - B1 SEGMENT B

JOB 37567.7408
DATE 11.22.2024
SHEET
M02-03B

11/22/2024 2:41:43 PM M02-03B LEVEL 3 - MECHANICAL PIPING PLAN - B1 SEGMENT B



1 LEVEL ROOF - MECHANICAL PIPING PLAN - B1 OVERALL
1/16" = 1'-0"

11/22/2024 2:42:43 PM M02-04 LEVEL ROOF - MECHANICAL PIPING PLAN - B1 OVERALL

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11.22.2024

GIC Vernon, LLC

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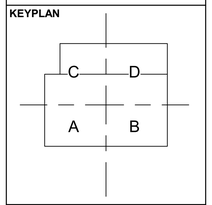
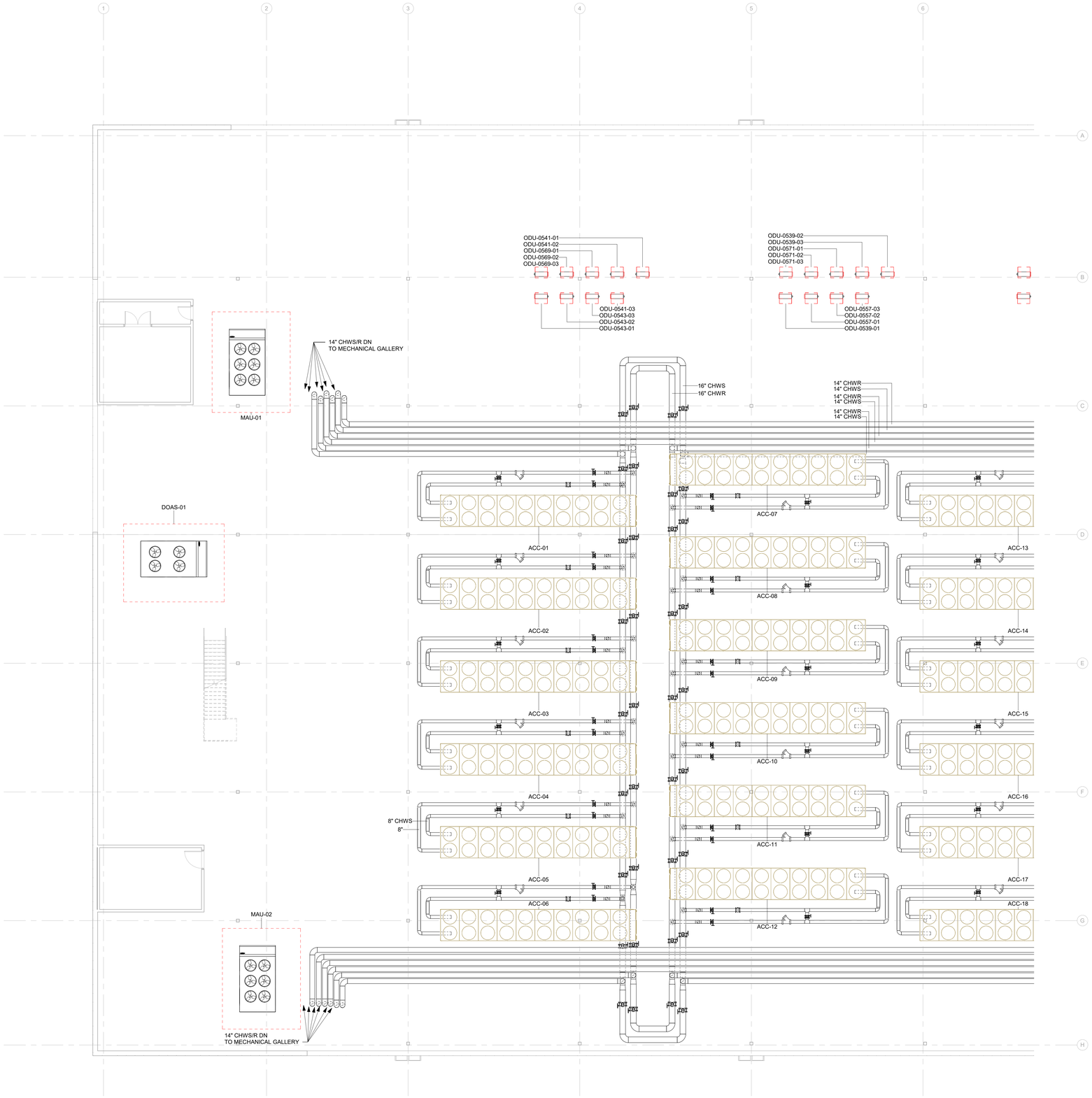


LEVEL ROOF - MECHANICAL PIPING PLAN - B1 OVERALL

JOB 37567.7408
DATE 11.22.2024
SHEET
M02-04



1 ROOF - MECHNANICAL PIPING PLAN - B1 SEGMENT B
1" = 10'-0"

11/22/2024 2:43:12 PM M02-04A LEVEL ROOF - MECHANICAL PIPING PLAN - B1 SEGMENT A

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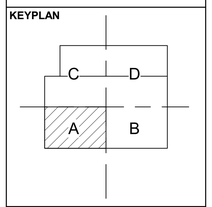
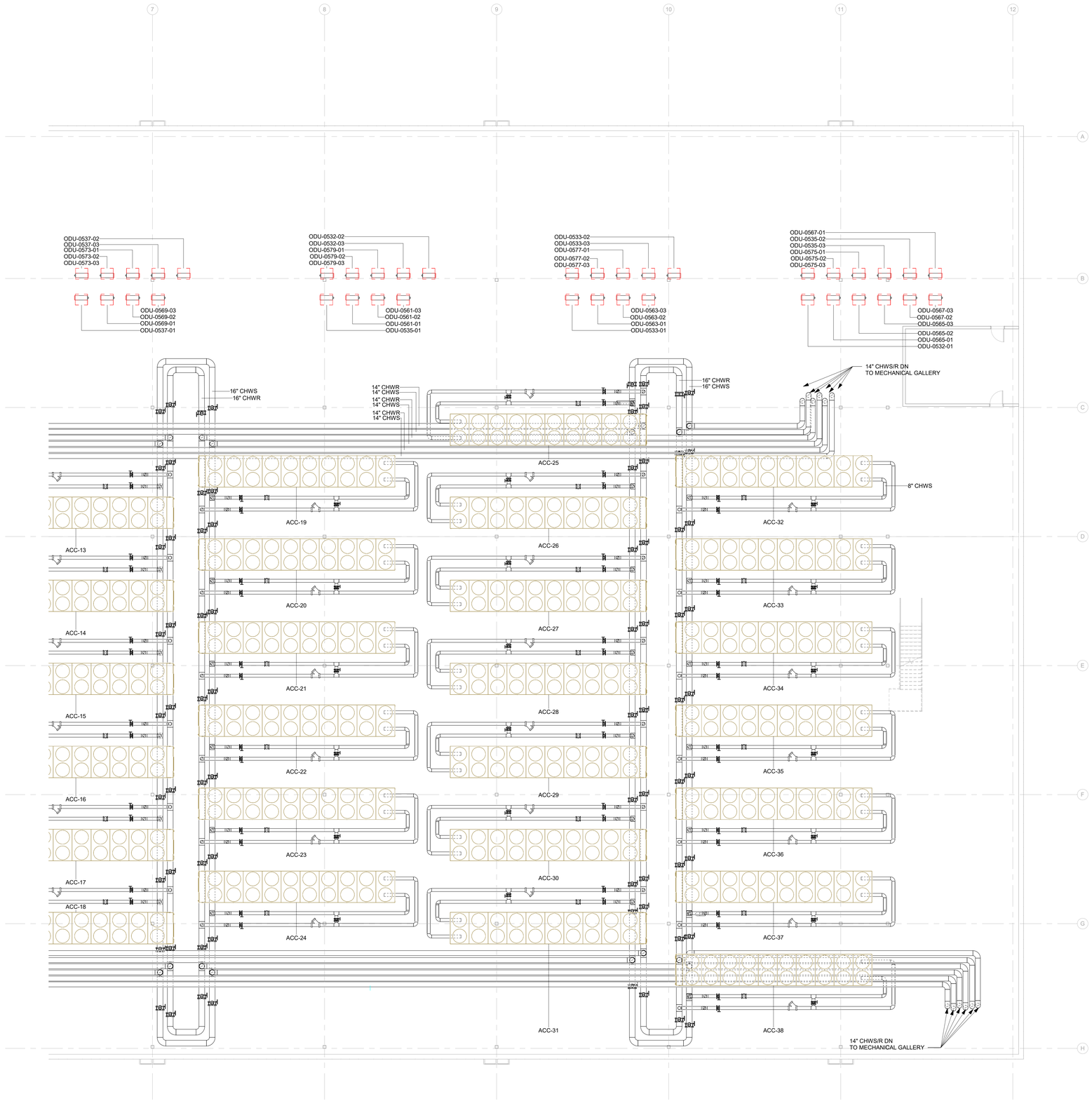
Vernon, California 90058

KEYPLAN



LEVEL ROOF - MECHANICAL PIPING PLAN - B1 SEGMENT A

JOB 37567.7408
DATE 11.22.2024
SHEET
M02-04A



1 ROOF - MECHNANICAL PIPING PLAN - B1 SEGMENT A
1" = 10'-0"

11/22/2024 2:43:58 PM M02-04B LEVEL ROOF - MECHANICAL PIPING PLAN - B1 SEGMENT B

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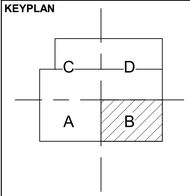
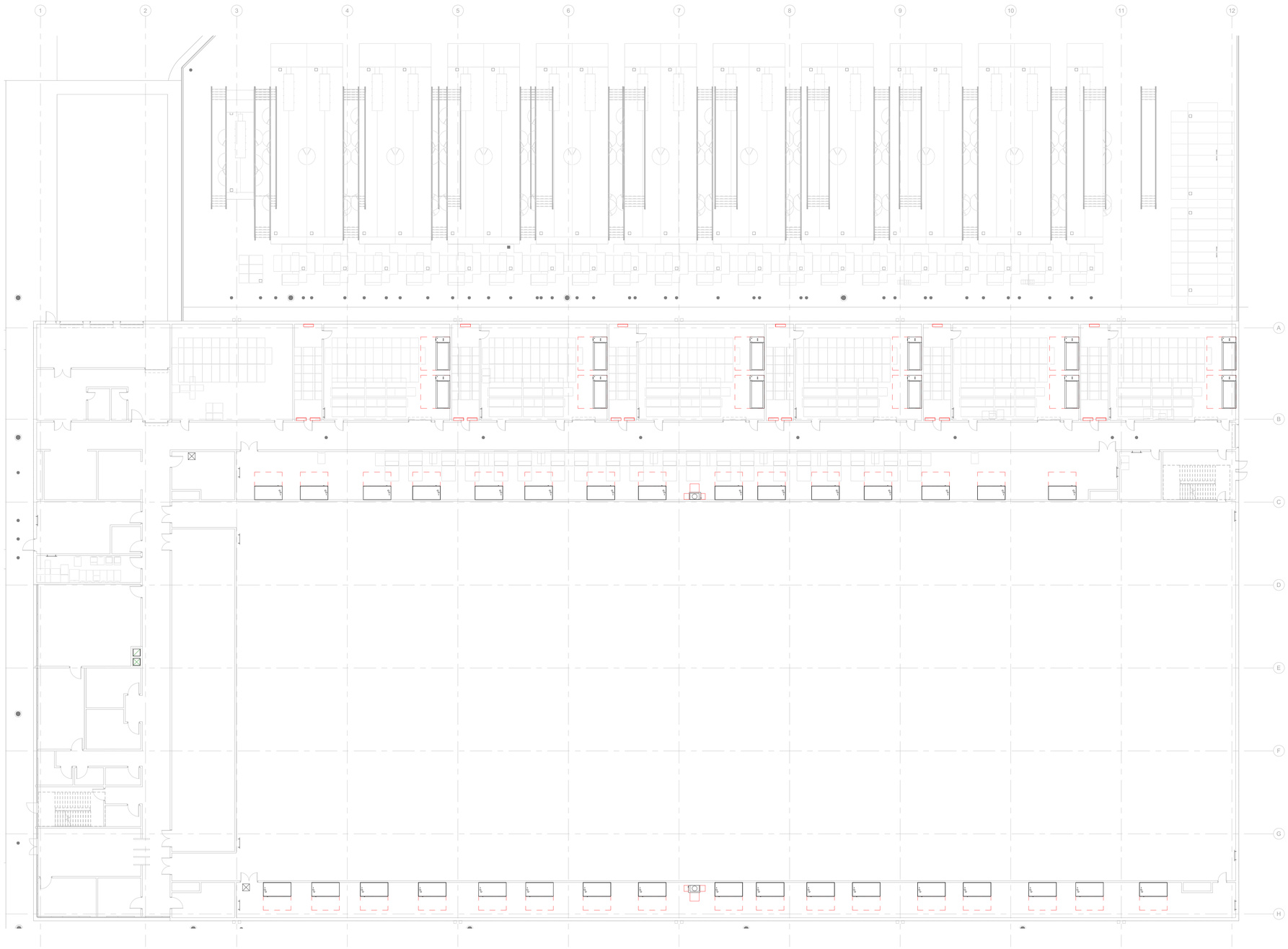


LEVEL ROOF - MECHANICAL PIPING PLAN - B1 SEGMENT B

JOB 37567.7408
DATE 11.22.2024
SHEET
M02-04B



1 LEVEL 1 - MECHANICAL DUCTWORK PLAN - B1 OVERALL
1/16" = 1'-0"

GENERAL NOTES

1. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF PIPE OR DUCT WHERE THEY CROSS EXPANSION JOINTS, SEISMIC JOINTS, OR WHERE THEY ARE SUBJECT TO STRUCTURAL DEFLECTION AND/OR DRIFT. FLEXIBLE CONNECTIONS SHALL BE INSTALLED WHERE ADJACENT SECTIONS OF PIPE OR DUCT ARE SUPPORTED BY DIFFERENT STRUCTURAL ELEMENTS AND WHERE THEY TERMINATE TO EQUIPMENT THAT IS ANCHORED OR SUPPORTED TO A DIFFERENT STRUCTURAL ELEMENT. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL AND/OR ARCHITECTURAL DRAWINGS IN ORDER TO PROVIDE THE REQUIRED FLEXIBLE CONNECTION.
2. DUCTWORK UPSTREAM OF VAV BOXES SHALL BE THE VAV BOX INLET SIZE UNLESS IT EXCEEDS 15 OR HAS TWO OR MORE ELBOWS.
3. DUCTWORK DOWNSTREAM OF VAV BOXES SHALL BE THE VAV BOX OUTLET SIZE UNLESS SPECIFIED ON FLOOR PLANS.
4. PROVIDE ACCESS PANEL IN DUCTWORK, WALLS AND CEILINGS WHERE REQUIRED FOR OPERATION, BALANCING, INSPECTION AND MAINTENANCE OF ALL EQUIPMENT. PROVIDE ACCESS PANELS IN CEILING FOR ACCESS TO MECHANICAL EQUIPMENT.
5. PROVIDE DUCTWORK TO TERMINAL AIR DEVICES AT SCHEDULED INLET SIZE UNLESS OTHERWISE INDICATED.
6. ALL BRANCH TAKE-OFF DUCTWORK FOR SUPPLY, RETURN, AND EXHAUST TO BE PROVIDED A CONICAL TAP WITH VOLUME DAMPERS AT EACH TAKE-OFF. BALANCE TO CONNECTED CFM AS INDICATED.
7. FOR ZONES THAT HAVE INDEPENDENT MEANS OF HEATING AND COOLING, PROVIDE LIMIT SWITCH, MECHANICAL STOP OR CONTROL VIA THE BMS TO PREVENT SIMULTANEOUS HEATING AND COOLING. THE CONTROL MUST MAINTAIN A DEADBAND OF NOT LESS THAN 5°F
8. FOR VESTIBULES, LIMIT HEATING TO A TEMPERATURE NOT GREATER THAN 60°F AND COOLING TO A TEMPERATURE NOT LESS THAN 85°F
9. FOR VESTIBULES, HEATING TO BE SHUT OFF WHEN THE OUTDOOR AMBIENT TEMPERATURE IS GREATER THAN 45°F.

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kW Mission Critical Engineering Member of WSP
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ISSUES		
1	11.22.2024	SCHEMATIC DESIGN

REVISIONS	

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GIC Vernon, LLC

GEP Vernon

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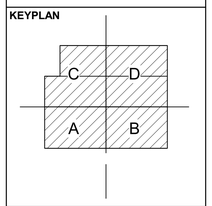
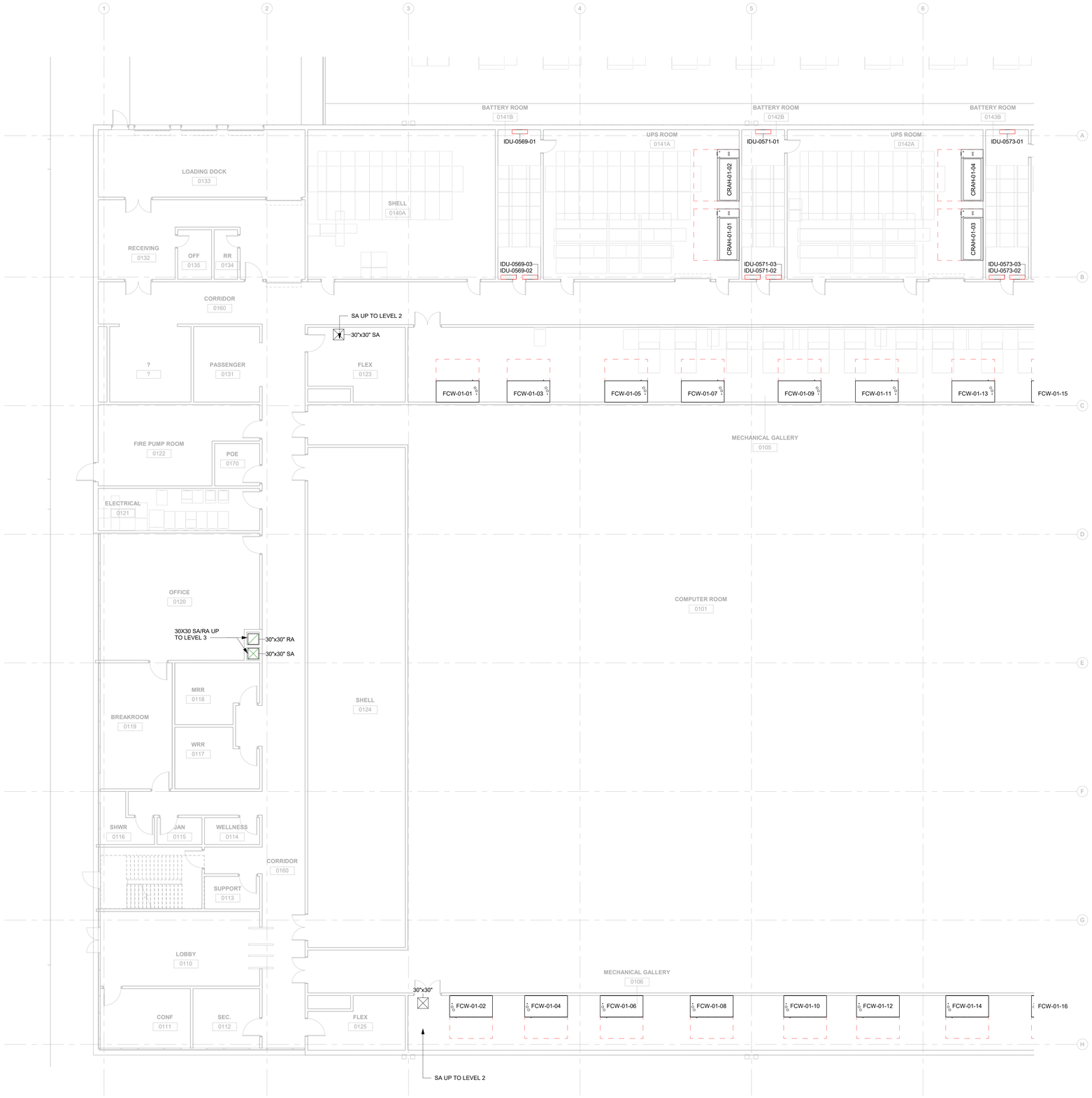
KEYPLAN



LEVEL 1 - MECHANICAL DUCTWORK PLAN - B1 OVERALL

JOB 37567.7408
DATE 11.22.2024
SHEET
M03-01

11/22/2024 2:44:09 PM M03-01 LEVEL 1 - MECHANICAL DUCTWORK PLAN - B1 OVERALL



1 LEVEL 1 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT B
1" = 10'-0"

GENERAL NOTES

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3. DUCTWORK DOWNSTREAM OF VAV BOXES SHALL BE THE VAV BOX OUTLET SIZE UNLESS SPECIFIED ON FLOOR PLANS.
4. PROVIDE ACCESS PANEL IN DUCTWORK, WALLS AND CEILINGS WHERE REQUIRED FOR OPERATION, BALANCING, INSPECTION AND MAINTENANCE OF ALL EQUIPMENT. PROVIDE ACCESS PANELS IN CEILING FOR ACCESS TO MECHANICAL EQUIPMENT.
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9. FOR VESTIBULES, HEATING TO BE SHUT OFF WHEN THE OUTDOOR AMBIENT TEMPERATURE IS GREATER THAN 45°F.

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ISSUES		
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GIC Vernon, LLC

GEP Vernon
BUILDING 1: 3163 East Vernon Avenue
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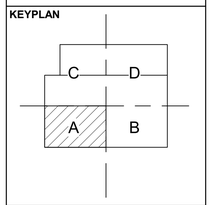

LEVEL 1 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT A

JOB 37567.7408
DATE 11.22.2024
SHEET
M03-01A

11/22/2024 2:44:16 PM M03-01A LEVEL 1 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT A

1 LEVEL 1 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT A
1" = 10'-0"

GENERAL NOTES

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7. FOR ZONES THAT HAVE INDEPENDENT MEANS OF HEATING AND COOLING, PROVIDE LIMIT SWITCH, MECHANICAL STOP OR CONTROL VIA THE BMS TO PREVENT SIMULTANEOUS HEATING AND COOLING. THE CONTROL MUST MAINTAIN A DEADBAND OF NOT LESS THAN 5°F
8. FOR VESTIBULES, LIMIT HEATING TO A TEMPERATURE NOT GREATER THAN 60°F AND COOLING TO A TEMPERATURE NOT LESS THAN 85°F
9. FOR VESTIBULES, HEATING TO BE SHUT OFF WHEN THE OUTDOOR AMBIENT TEMPERATURE IS GREATER THAN 45°F.

CORGAN
kW Mission Critical Engineering Member of WSP
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ISSUES		
1	11.22.2024	SCHEMATIC DESIGN

REVISIONS		

kW Mission Critical Engineering
Contact: Jacob Czechan Phone: 414.308.2320

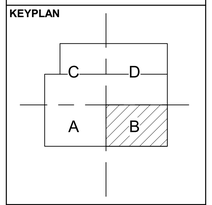
NOT FOR CONSTRUCTION

Date of issue:
11.22.2024

GIC Vernon, LLC

GEP Vernon
BUILDING 1: 3163 East Vernon Avenue
Vernon, California 90058
BUILDING 2: 3049 East Vernon Avenue
Vernon, California 90058

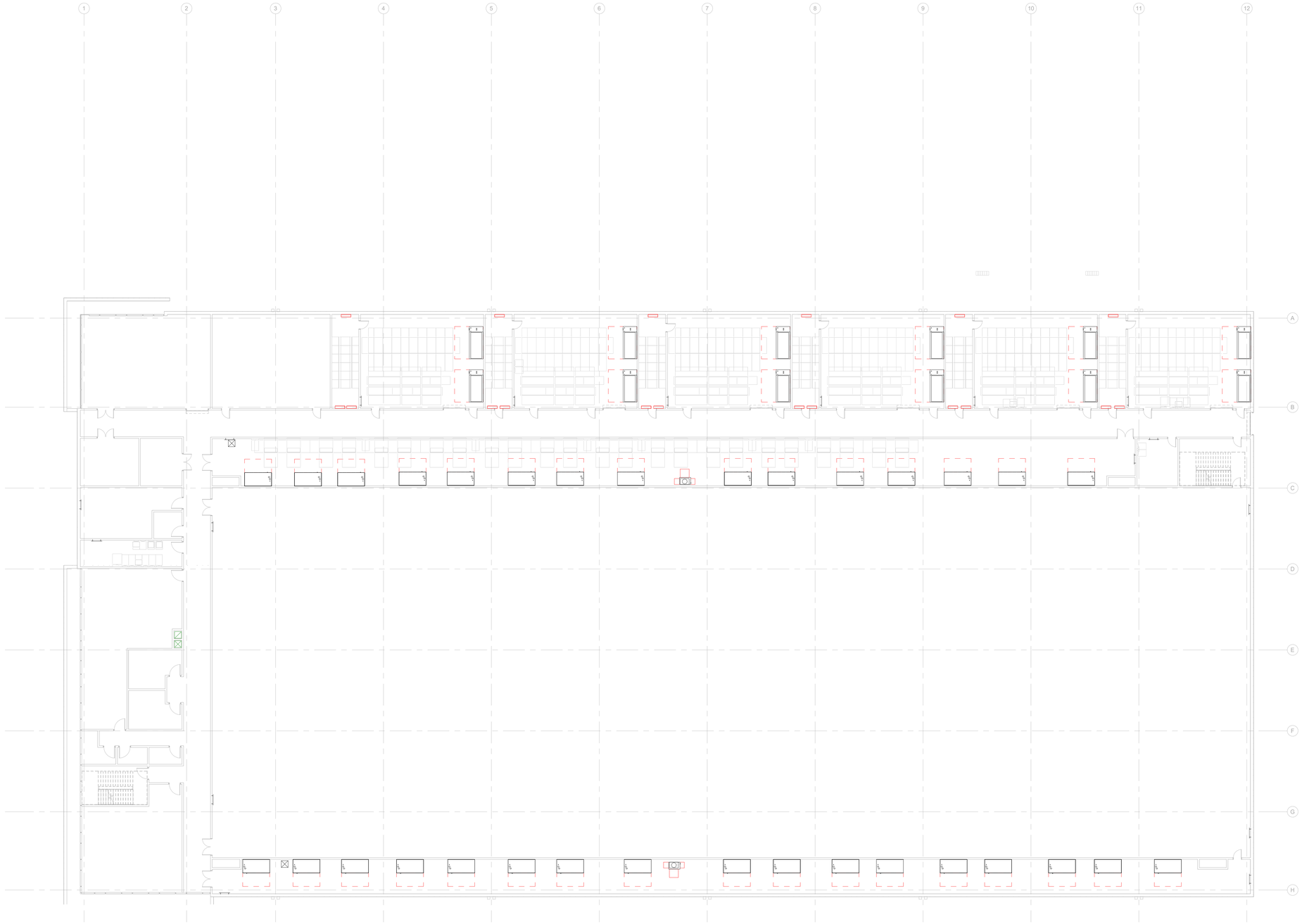
KEYPLAN



LEVEL 1 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT B

JOB 37567.7408
DATE 11.22.2024
SHEET
M03-01B

11/22/2024 2:44:23 PM M03-01B LEVEL 1 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT B



1 LEVEL 2 - MECHANICAL DUCTWORK PLAN - B1 OVERALL
1/16" = 1'-0"

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2. DUCTWORK UPSTREAM OF VAV BOXES SHALL BE THE VAV BOX INLET SIZE UNLESS IT EXCEEDS 15 OR HAS TWO OR MORE ELBOWS.
3. DUCTWORK DOWNSTREAM OF VAV BOXES SHALL BE THE VAV BOX OUTLET SIZE UNLESS SPECIFIED ON FLOOR PLANS.
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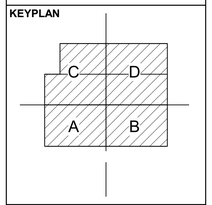
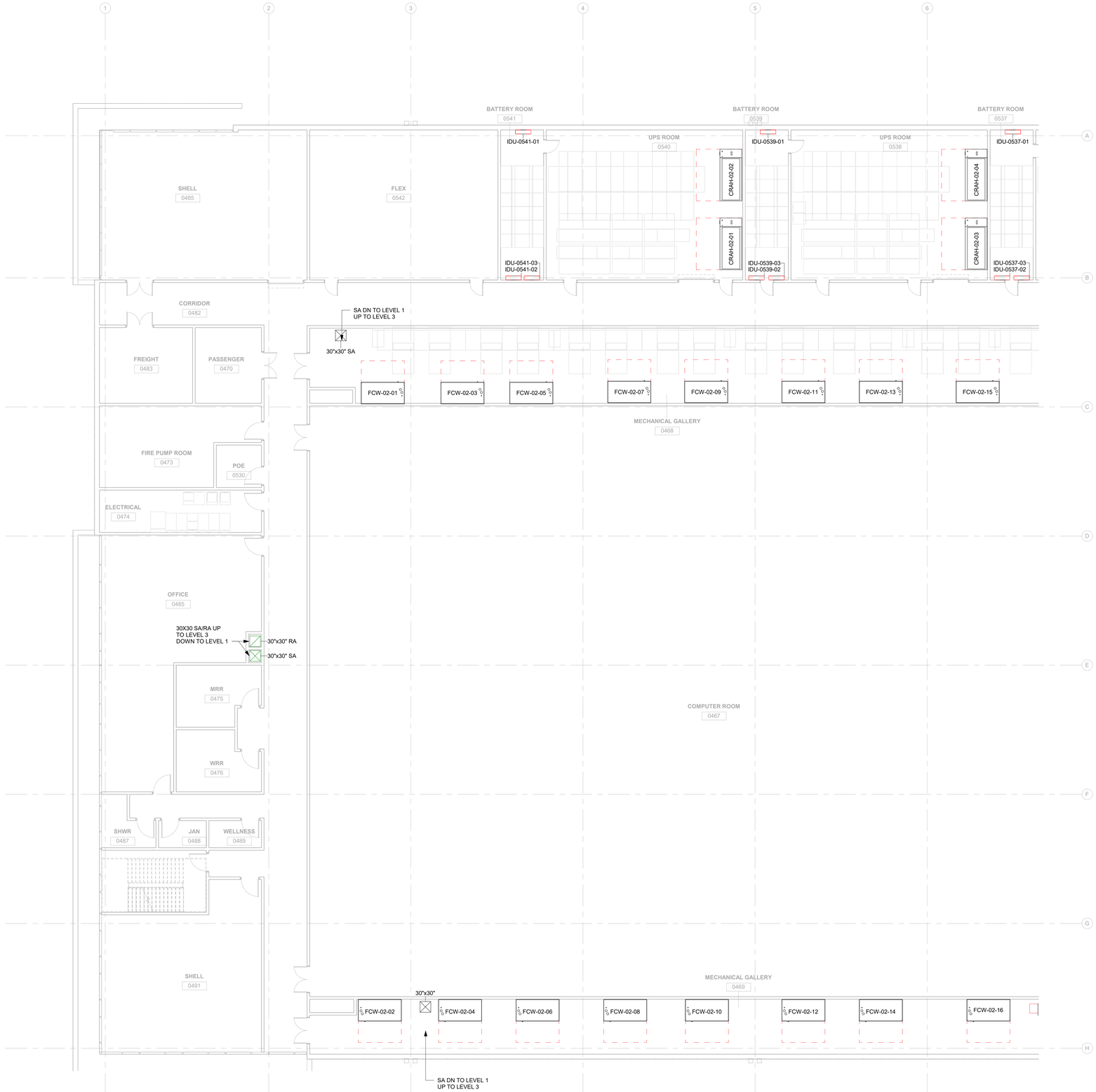


LEVEL 2 - MECHANICAL DUCTWORK PLAN - B1 OVERALL

JOB 37567.7408
DATE 11.22.2024
SHEET
M03-02

11/22/2024 2:44:34 PM M03-02 LEVEL 2 - MECHANICAL DUCTWORK PLAN - B1 OVERALL



1 LEVEL 2 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT B
1" = 10'-0"

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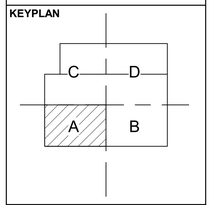
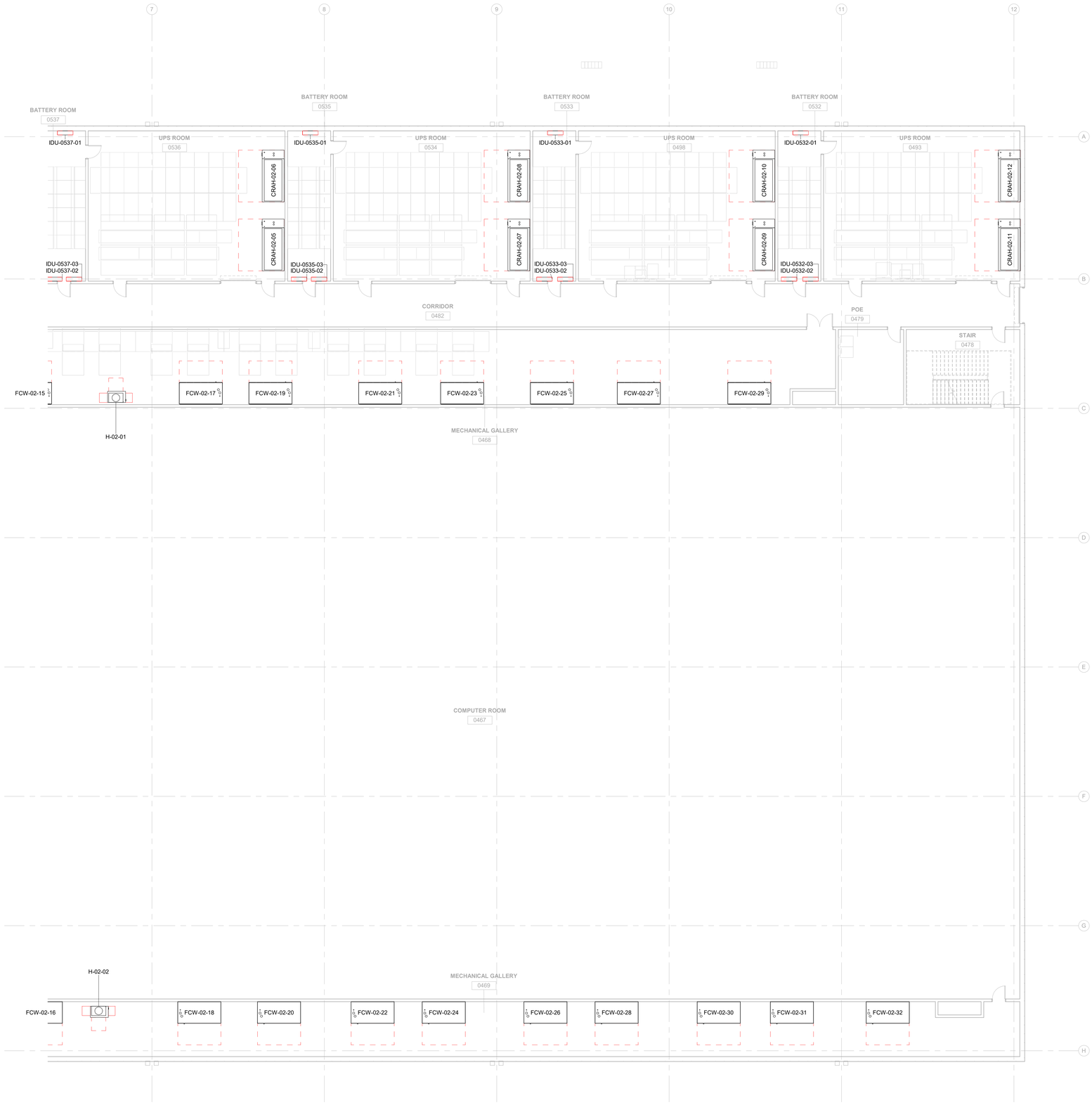


LEVEL 2 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT A

JOB 37567.7408
DATE 11.22.2024
SHEET
M03-02A

11/22/2024 2:44:41 PM M03-02A LEVEL 2 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT A



1 LEVEL 2 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT A
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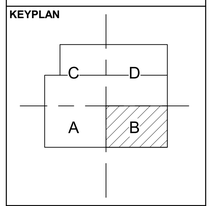
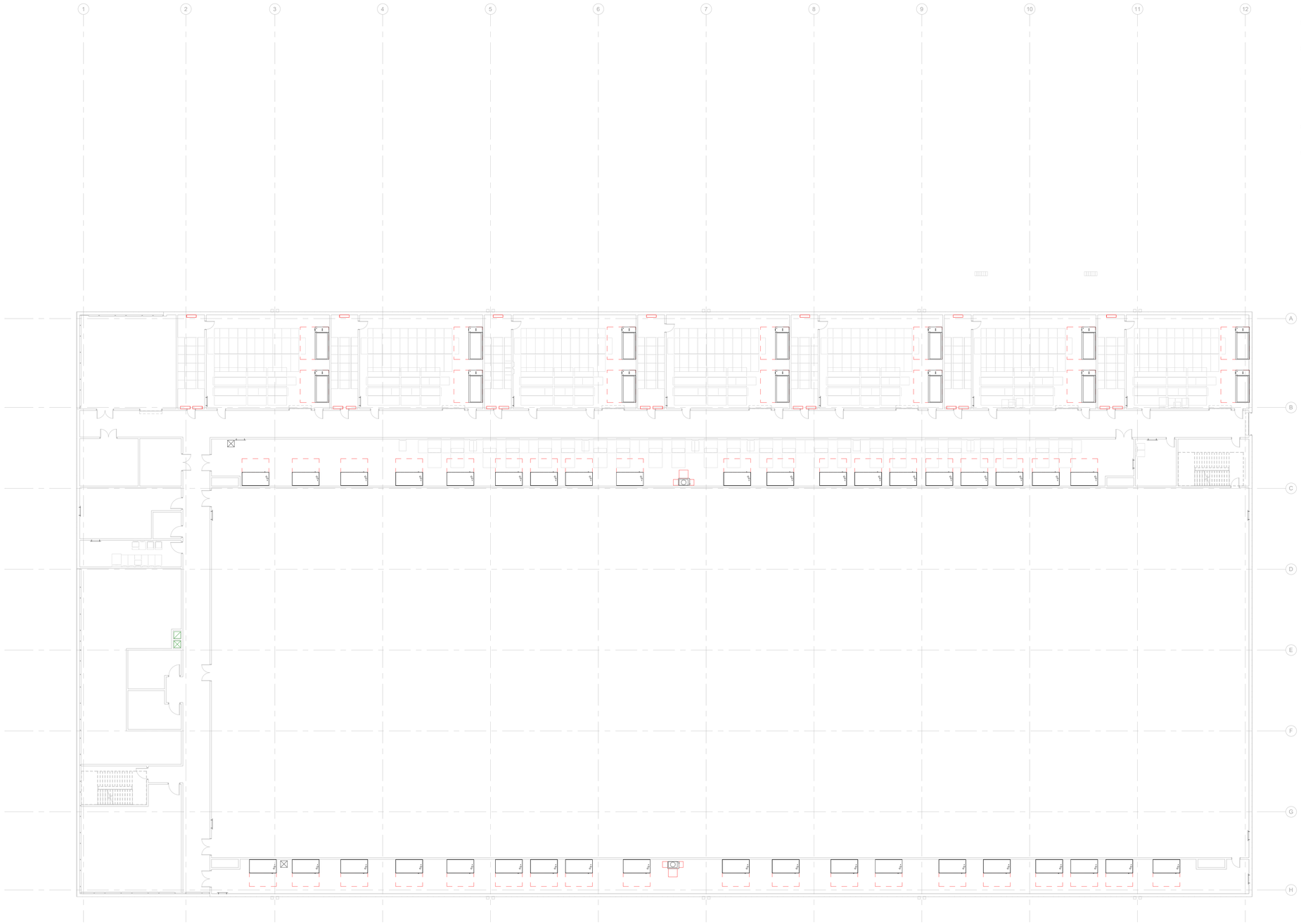


LEVEL 2 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT B

JOB 37567.7408
DATE 11.22.2024
SHEET
M03-02B

11/22/2024 2:44:48 PM M03-02B LEVEL 2 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT B



1 LEVEL 3 - MECHANICAL DUCTWORK PLAN - B1 OVERALL
1/16" = 1'-0"

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1	11.22.2024	SCHEMATIC DESIGN

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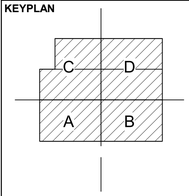
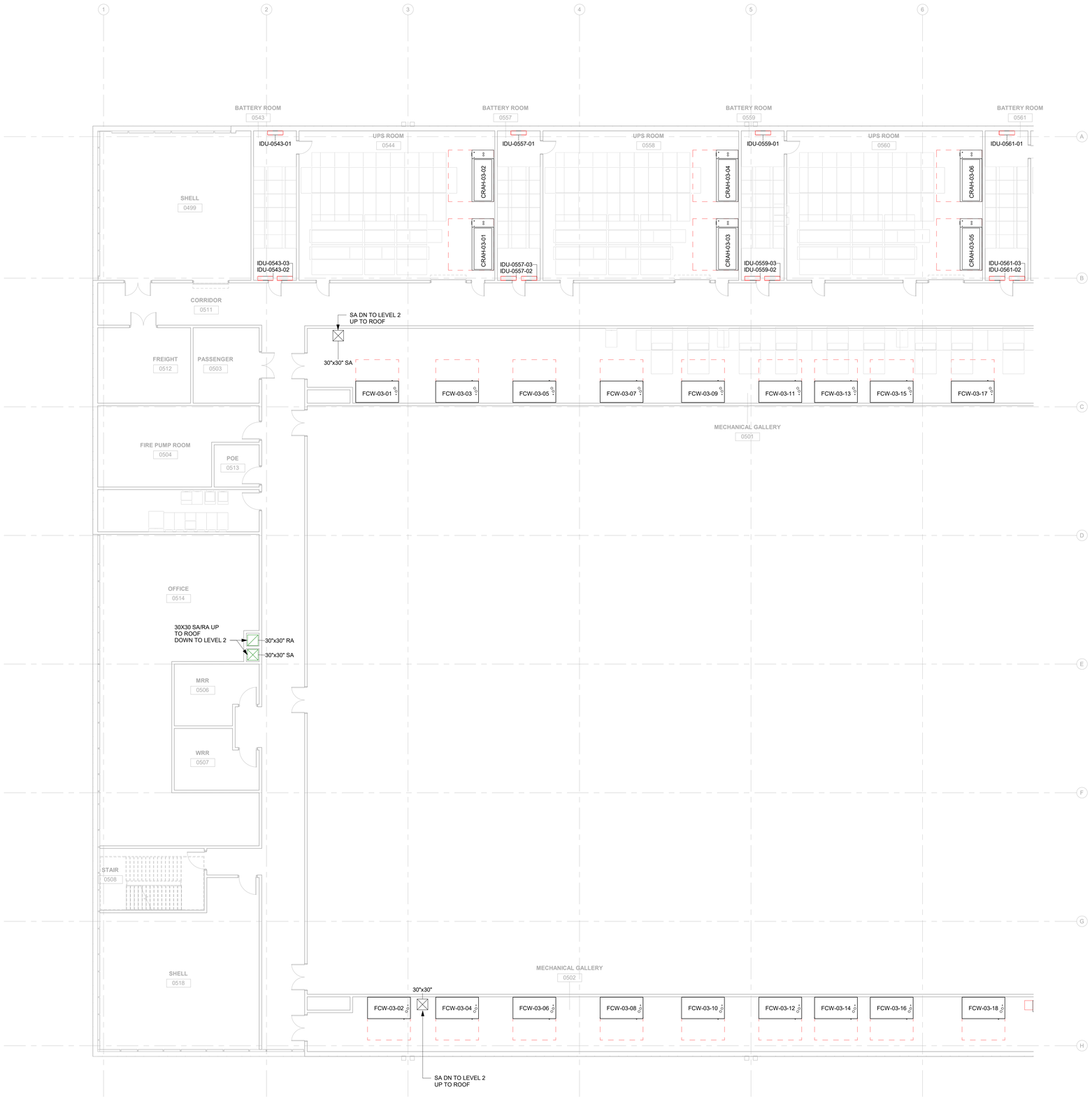


LEVEL 3 - MECHANICAL DUCTWORK PLAN - B1 OVERALL

JOB 37567.7408
DATE 11.22.2024
SHEET
M03-03

11/22/2024 2:44:58 PM M03-03 LEVEL 3 - MECHANICAL DUCTWORK PLAN - B1 OVERALL



1 LEVEL 3 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT B
1" = 10'-0"

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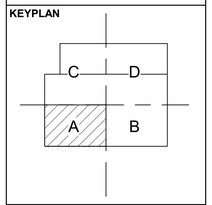

LEVEL 3 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT A

JOB 37567.7408
DATE 11.22.2024
SHEET
M03-03A

11/22/2024 2:45:05 PM M03-03A LEVEL 3 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT A

1 LEVEL 3 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT A
1" = 10'-0"

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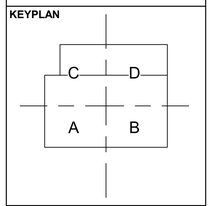
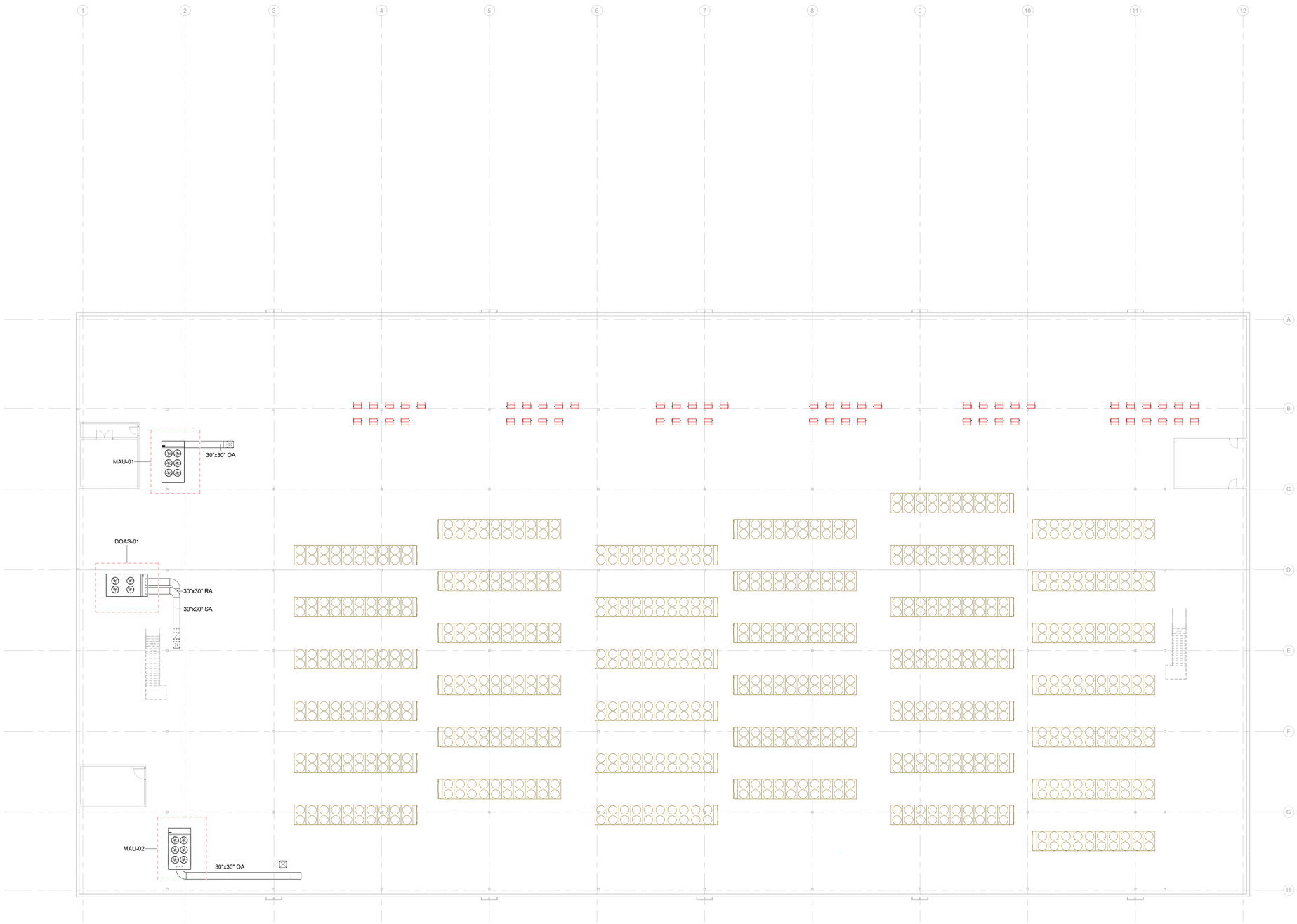


LEVEL 3 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT B

JOB 37567.7408
DATE 11.22.2024
SHEET
M03-03B

11/22/2024 2:45:14 PM M03-03B LEVEL 3 - MECHANICAL DUCTWORK PLAN - B1 SEGMENT B



1 LEVEL ROOF - MECHANICAL DUCTWORK PLAN - B1 OVERALL
1/16" = 1'-0"

11/22/2024 2:45:54 PM M03-04 LEVEL ROOF - MECHANICAL DUCTWORK PLAN - B1 OVERALL

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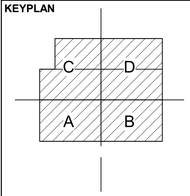

LEVEL ROOF - MECHANICAL DUCTWORK PLAN - B1 OVERALL

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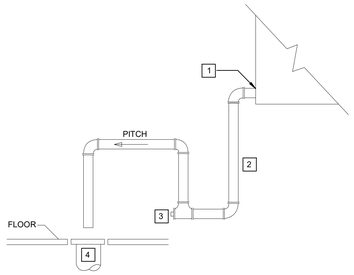
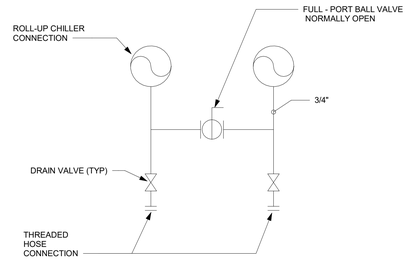
SHEET
M03-04

1 DRAIN PAN CONNECTION
2 INSULATED DRAIN LINE SAME SIZE AS DRAIN PAN CONNECTION BUT NOT LESS THAN 3/4"
3 PLUGGED TEE FOR CLEANOUT
4 FLOOR DRAIN

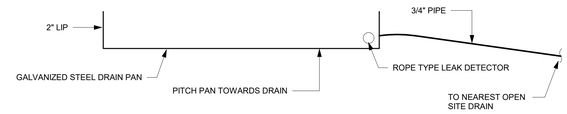


NOTE:
ALL TRAP SIZES PER MANUFACTURER

1 CONDENSATE DRAIN DETAIL
N.T.S.

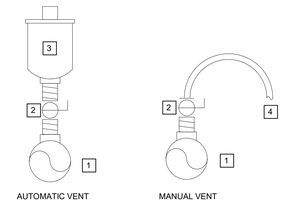


2 DEAD - LEG MITIGATION DETAIL
N.T.S.



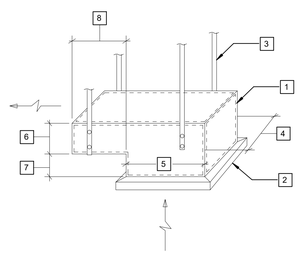
3 DRAIN PAN DETAIL
N.T.S.

1 PIPING HIGH POINT
2 BALL VALVE
3 AUTOMATIC AIR VENT
4 COILED FLEXIBLE TUBING - 1'-0" MINIMUM



4 AIR VENT DETAIL
N.T.S.

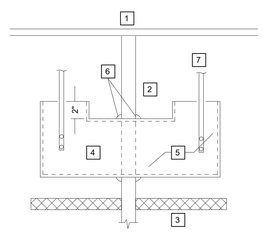
1 SHEETMETAL TRANSITION ELBOW WITH ACOUSTICAL DUCT LINING
2 PERFORATED OR LOUVERED CEILING RETURN GRILLE
3 SHEETMETAL SUPPORT HANGER STRAP UP TO STRUCTURE (TYP)
4 DIMENSION OF GRILLE NECK
5 DIMENSION OF GRILLE NECK
6 DIMENSION = (2/3) x DIMENSION GIVEN BY NOTE #5.
7 6" MINIMUM
8 18" MINIMUM



NOTE:
USE ACOUSTICAL BOOT IN OFFICE AREA AND ENTRANCE LOBBIES ONLY

5 NON-DUCTED RETURN GRILLES
NTS

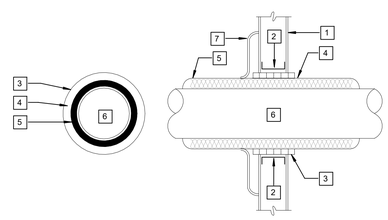
1 ROOF OR FLOOR
2 FULL HEIGHT PARTITION
3 CEILING
4 TRANSFER DUCT
5 SEAL PERIMETER OF DUCT BOTH SIDES OF PARTITION
6 SHEET METAL SUPPORT HANGER STRAP UP TO STRUCTURE



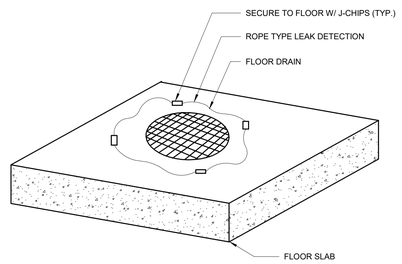
NOTE: SIZE INDICATED ON DRAWING

6 TRANSFER DUCT
NTS

1 INTERIOR WALL OR PARTITION
2 FRAMING FOR SLEEVE OPENING, 4 SIDES OF SLEEVE BY FRAMING CONTRACTOR
3 14 GAUGE GALVANIZED SLEEVE WITH BUTT WELDED JOINTS
4 1 INCH ANNULAR SPACE FOR FIRESTOPPING THROUGH FIRE AND SMOKE BARRIER, OR 1 INCH ANNULAR SPACE FOR AIRTIGHT ACOUSTIC CAULK SEAL FOR ALL OTHER INTERIOR WALL OR PARTITION PENETRATIONS
5 FULL THICKNESS INSULATION WITH SPECIFIED JACKETING CARRIED THROUGH SLEEVE (SEE 'INSULATION FOR PIPING' SECTION OF SPECIFICATIONS)
6 PIPE (SEE 'PIPING SYSTEMS' SECTION OF THE SPECIFICATIONS FOR REQUIREMENTS AND PIPING FLOW DIAGRAMS FOR SIZES)
7 ESCUTCHEONS: PROVIDE FOR ALL PIPING PENETRATIONS EXPOSED TO VIEW. (SEE 'PIPING SYSTEMS' SECTION OF SPECIFICATIONS FOR REQUIREMENTS)



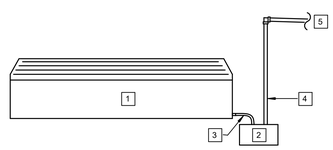
7 INTERIOR WALL PIPE PENETRATIONS
N.T.S.



NOTE:

ROPE TYPE LEAK DETECTION SHALL BE TIED TO THE NEAREST LEAK DETECTION PANEL.

8 FLOOR DRAIN LEAK DETECTION DETAIL
N.T.S.



1 AIR CONDITIONER UNIT
2 CONDENSATE PUMP
3 SEE-THROUGH FLEXIBLE X" TUBE
4 X" CONDENSATE PIPE
5 ROUTE TO NEAREST FLOOR DRAIN MAINTAINING 1/8" PITCH IN CONDENSATE PIPE.

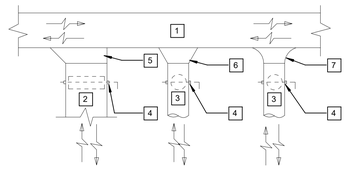
NOTE: CONDENSATE PUMP'S DISCHARGE TUBE / PIPE IS TO RISE VERTICALLY AND CONNECT TO A HORIZONTAL GRAVITY DRAIN THROUGH THE TOP OF THE HORIZONTAL PIPE WITH DIRECTIONAL FITTINGS.

9 TYPICAL CONDENSATE PUMP DETAIL
N.T.S.

1 MAIN SUPPLY, RETURN OR EXHAUST DUCT (LOW OR MEDIUM PRESS.)
2 RECTANGULAR BRANCH TAKE-OFF DUCT (LOW OR MEDIUM PRESS.)
3 ROUND BRANCH TAKE-OFF DUCT (LOW OR MEDIUM PRESS.)
4 VOLUME DAMPER AS INDICATED ON PLANS
5 45 DEGREE ENTRY FITTING
6 CONICAL DUCT TAKE-OFF FITTING
7 BELLMOUTH DUCT TAKE-OFF FITTING

NOTES:

1. SPIN-IN DUCT TAKE-OFF FITTINGS MAY BE USED IN LIEU OF CONICAL OR BELLMOUTH FITTINGS ONLY WHERE MAIN DUCT DIMENSIONS ARE NOT SUFFICIENT TO ALLOW THE USE OF A CONICAL OR BELLMOUTH. SEAL ALL TAKE-OFF & OTHER DUCT FITTINGS AIR TIGHT AS PER SPEC. FABRICATE BRANCH DUCT TAKE-OFF FITTING PER LATEST EDITION OF SMACNA DUCT CONSTRUCTION MANUAL, AS INDICATED ON PLANS, OR AS DESCRIBED IN SPECIFICATION.
2. FOLLOW SPECIFIED VERSION OF SMACNA STANDARD FOR ALL DUCT CONSTRUCTION.



10 BRANCH DUCTS
N.T.S.

CORGAN
kW Mission Critical Engineering Member of WSP
LANGAN
PASE

	ISSUES	
1	11.22.2024	SCHEMATIC DESIGN

	REVISIONS	

kW Mission Critical Engineering
Contact: Jacob Czechan Phone: 414.308.2320

NOT FOR CONSTRUCTION

Date of issue:
11.22.2024

GIC Vernon, LLC

GEP Vernon
BUILDING 1: 3163 East Vernon Avenue
Vernon, California 90058
BUILDING 2: 3049 East Vernon Avenue
Vernon, California 90058

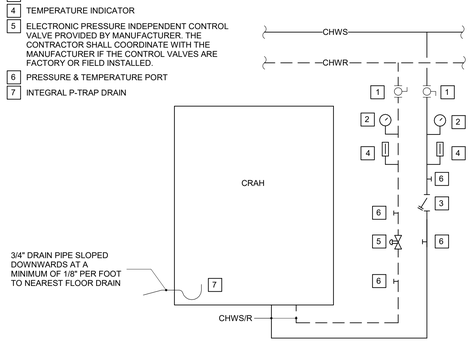
MECHANICAL DETAILS

JOB 37567.7408
DATE 11.22.2024
SHEET
M05-01

11/22/2024 2:46:00 PM M05-01 MECHANICAL DETAILS

KEYED NOTES:

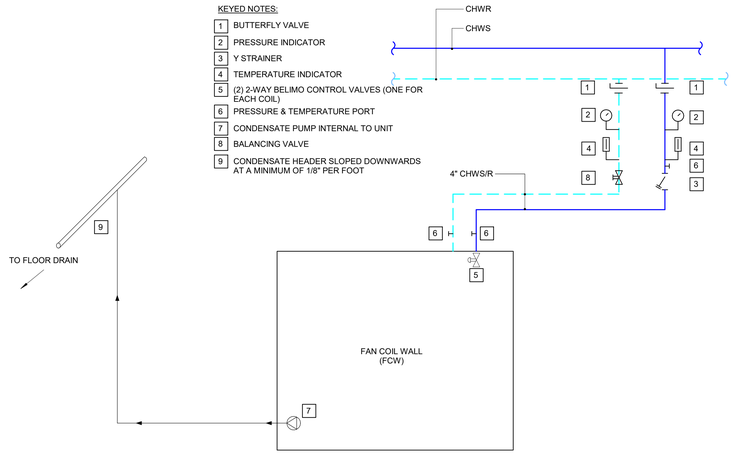
1. BALL VALVE
2. PRESSURE INDICATOR
3. Y STRAINER
4. TEMPERATURE INDICATOR
5. ELECTRONIC PRESSURE INDEPENDENT CONTROL VALVE PROVIDED BY MANUFACTURER. THE CONTRACTOR SHALL COORDINATE WITH THE MANUFACTURER IF THE CONTROL VALVES ARE FACTORY OR FIELD INSTALLED.
6. PRESSURE & TEMPERATURE PORT
7. INTEGRAL P-TRAP DRAIN



1 CRAH PIPING DETAIL
12" = 1'-0"

KEYED NOTES:

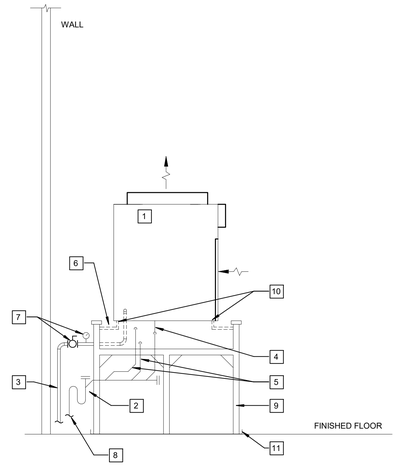
1. BUTTERFLY VALVE
2. PRESSURE INDICATOR
3. Y STRAINER
4. TEMPERATURE INDICATOR
5. (2) 2-WAY BELIMO CONTROL VALVES (ONE FOR EACH COIL)
6. PRESSURE & TEMPERATURE PORT
7. CONDENSATE PUMP INTERNAL TO UNIT
8. BALANCING VALVE
9. CONDENSATE HEADER SLOPED DOWNWARDS AT A MINIMUM OF 1/8" PER FOOT



2 FCW PIPING PLAN
N.T.S.

1. ADIABATIC HUMIDIFIER SUPPORTED BY DRIP PAN. LOCATE SUCH THAT BOTTOM OF DRAIN PAN IS NOT AT AN ELEVATION WHICH POSES A RISK OF BECOMING A HAZARD (NO HIGHER THAN 4' AFF).
2. ROUTE HUMIDIFIER PIPING SUCH THAT IT IS NOT LOCATED ABOVE ELECTRICAL DEVICES. IF CONDITIONS REQUIRE ROUTING CONDENSATE PIPING ABOVE ELECTRICAL DEVICES, PROVIDE DRAIN PANS BELOW PIPING AND ROUTE TO NEAREST FLOOR DRAIN.
3. MAKE-UP WATER LINE. COORDINATE WITH MANUFACTURER FOR VALVE REQUIREMENTS; BACKFLOW AND PRESSURE, ETC..
4. CONDENSATE DRAIN PIPE TO NEAREST FLOOR DRAIN - PITCH 1/4 INCH PER FOOT
5. AUXILIARY DRAINS, PIPE TO NEAREST FLOOR DRAIN IN DEDICATED LINE. PROVIDE VISIBLE AIR GAP TO IDENTIFY WATER OVERFLOW CONDITION.
6. GALVANIZED STEEL SECONDARY DRAIN PAN W/ LEAK DETECTION
7. BALL VALVE & PRESSURE GAUGE (0-100 PSI)
8. DRAIN TO FLOOR DRAIN UNDER RAISED FLOOR
9. FLOOR MOUNTED STEEL STRUCTURE BY G.C.
10. VIBRATION ISOLATORS
11. PROVIDE DRIP PAN AND SERPENTINE ROPE TYPE LEAK DETECTION UNDERNEATH FULL FOOTPRINT OF HUMIDIFIER.

NOTES:
1. PROVIDE VIBRATION ISOLATORS AT ALL POINTS SUCH THAT VIBRATION DOES NOT TRANSMIT TO OR FROM THE UNIT.



3 FLOOR MOUTED HUMIDIFIER DETAIL
N.T.S.

CORGAN
kW Mission Critical Engineering Member of WSP
LANGAN
PASE

	ISSUES	
1	11.22.2024	SCHEMATIC DESIGN

REVISIONS

kW Mission Critical Engineering
Contact: Jacob Czechan Phone: 414.308.2320

NOT FOR CONSTRUCTION

Date of issue:
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JOB 37567.7408
DATE 11.22.2024
SHEET
M05-02

11/22/2024 2:46:05 PM M05-02 MECHANICAL DETAILS

DEDICATED OUTDOOR AIR UNIT SCHEDULE (100% OA)

				SUPPLY FAN					EXHAUST FAN						COOLING COIL								HEATING COIL					ELECTRICAL INFORMATION								
																	MIXED AIR AFTER WHEEL								MIXED AIR AFTER WHEEL											
TAG	PHASE	SUPPLY CFM	OA CFM	QTY	ESP	RPM	BHP	MOTOR HP	EXHAUST CFM	QTY	ESP	RPM	BHP	MOTOR HP	NET SENSIBLE CAPACITY (MBH)	NET TOTAL CAPACITY (MBH)	ENTERING DRY BULB (°F)	ENTERING WET BULB (°F)	UNIT LEAVING DRY BULB (°F)	UNIT LEAVING WET BULB (°F)	EER	REFRIGERANT TYPE	HEATING CAPACITY (MBH)	HEATING CFM	ENTERING DRY BULB (°F)	ENTERING WET BULB (°F)	LEAVING DRY BULB (°F)	VOLTAGE	PHASE	HZ	MCA	MOCP	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
DOAS-01	PHASE 1	8,200	8200	1		1718	9.43	15.0	8,200	1	1.50	1204	5.7	7.5	210.8	310.5	80.3	66.8	56.0	54.0	10.48	R454B	273.0	8,200	52.9	42.9	83.7	460	3	60	138	150	7069	AAON	RN-031	1 - 10

NOTES
1. MANUFACTURER SHALL PROVIDE UNIT WITH INTEGRAL NON-FUSED DISCONNECT SWITCH.
2. MANUFACTURER SHALL PROVIDE UNIT RATED WITH 65KA SHORT CIRCUIT CURRENT WITHSTAND RATING.
3. PROVIDE UNIT CONTROLLER WITH BACNET/IP CONNECTION PORT.
4. PROVIDE 115 VOLT CONVENIENCE OUTLET, SHAFT GROUNDING FOR FAN MOTORS, CLOGGED FILTER SWITCH AND MAGNEHELIC GAUGE.
5. PROVIDE VARIABLE FREQUENCY DRIVE (VFD) FOR EACH FAN MOTOR.
6. SP RATED PER ANSI/AHRI 340/360 TEST PROCEDURE.
7. PROVIDE 2" MERV 8 PRE-FILTERS AND 4" MERV 13 FILTERS.
8. SUMMER AMBIENT TEMPERATURE 99.9°F.
9. WINTER AMBIENT TEMPERATURE 38.6°F.
10. PROVIDE 24" MIN. ROOF CURB

CHILLER SCHEDULE - OFCI

				EVAPORATOR DATA					CONDENSER DATA				ELECTRICAL			ELECTRICAL DATA								
TAG	PHASE	COOLING CAPACITY (TONS)	REFRIGERANT TYPE	FLOW RATE (GPM)	EWT (°F)	LWT (°F)	COOLING MODE PRESSURE DROP (FT H2O)	FLUID	AMB. TEMP (°F)	COND. TEMP (°F)	PRESSURE DROP (FT H2O)	FLUID	VOLTAGE	PHASE	HZ	INPUT POWER (kW)	COOLING EFFICIENCY (kW/TON)	RLA	MCA (A)	MOCP (A)	OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
ACC-01	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-02	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-03	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-04	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-05	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-06	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-07	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-08	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-09	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-10	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-11	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-12	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-13	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-14	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-15	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-16	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-17	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-18	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-19	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-20	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-21	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-22	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-23	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-24	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-25	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-26	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-27	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-28	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-29	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-30	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-31	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-32	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-33	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-34	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-35	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-36	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-37	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	
ACC-38	PHASE 1	350	R515B	527.1	84	68	16.4	15% PG	108	133	0.56	AIR	460	3	60	291.6	0.83	403.7	492	600	27900	TRANE	TCA330	

NOTES
1. PROVIDE MANUFACTURER MOUNTED DISCONNECT PER DIVISION 26 SPECIFICATIONS WITH SINGLE POINT CHILLER POWER CONNECTION.
2. MANUFACTURER TO PROVIDE VFD.
3. PROVIDE WITH RAPID RESTART FUNCTION.
4. PROVIDE WITH INTEGRAL ECONOMIZER.
5. PROVIDE WITH CHILLER MOUNTED CHW PUMP INTEGRATED WITH CHILLER PACKAGE. DEDICATED PUMP POWER CONNECTION SHALL BE PROVIDED.
6. PUMP CONTROLS TO BE PROVIDED BY BMS CONTRACTOR.
7. PROVIDE LUGS CAPABLE OF ACCEPTING CONDUCTORS SIZED UP TO #600 KCMIL, COPPER. REFER TO ELECTRICAL FEEDER SCHEDULE FOR EXACT FEEDER SIZE AND LUG QUANTITIES PRIOR TO ORDERING.
8. PROVIDE WITH EC CONDENSER FAN MOTORS.

CRAH UNIT SCHEDULE - OFCI

TAG	MANUFACTURER	MODEL	PHASE	LOCATION	ACFM	ESP (IN. H2O)	FAN (QTY)	TOTAL FAN POWER (W)	FLUID	FPI	NO. OF ROWS	EWT (°F)	LWT (°F)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	NET SENSIBLE CAPACITY (KW)	NET TOTAL CAPACITY (KW)	FLOW RATE (GPM)	UNIT FLUID PRESSURE DROP (FT H2O)	WEIGHT (LBS)	NOTES
CRAH-01-01	Vertiv Co.	CW375	PHASE 1	UPS ROOM 2	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-01-02	Vertiv Co.	CW375	PHASE 1	UPS ROOM 2	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-01-03	Vertiv Co.	CW375	PHASE 1	UPS ROOM 3	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-01-04	Vertiv Co.	CW375	PHASE 1	UPS ROOM 3	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-01-05	Vertiv Co.	CW375	PHASE 1	UPS ROOM 4	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-01-06	Vertiv Co.	CW375	PHASE 1	UPS ROOM 4	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-01-07	Vertiv Co.	CW375	PHASE 1	UPS ROOM 5	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-01-08	Vertiv Co.	CW375	PHASE 1	UPS ROOM 5	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-01-09	Vertiv Co.	CW375	PHASE 1	UPS ROOM 6	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-01-10	Vertiv Co.	CW375	PHASE 1	UPS ROOM 6	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-01-11	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-01-12	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-02-01	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-02-02	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-02-03	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-02-04	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-02-05	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-02-06	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-02-07	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-02-08	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-02-09	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-02-10	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-02-11	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-02-12	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-03-01	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-03-02	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-03-03	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-03-04	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-03-05	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-03-06	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-03-07	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-03-08	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-03-09	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-03-10	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-03-11	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-03-12	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-03-13	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6
CRAH-03-14	Vertiv Co.	CW375	PHASE 1	UPS ROOM 7	26200	0.30	3	8.5	PROPYLENE GLYCOL 15%	12	6	68	84	89.5	65.9	74.5	60.8	120.00	120.00	56	16	5719	1 - 6

NOTES
1. FURNISH WITH INTEGRAL ATS.
2. CRAHS IN FRONT DISCHARGE CONFIGURATION.
3. FURNISH WITH FRONT DISCHARGE 36" GRILLES.
4. SMOKE DETECTORS INTEGRAL TO UNIT.
5. FURNISH WITH RETURN AIR FILTER PLENUM EXTENDED TO WITHIN 36" OF STRUCTURE ABOVE.
6. FURNISH WITH BAS NETWORK CARD - COORDINATE WITH BAS FOR REQUIREMENTS.

CORGAN
kW Mission Critical Engineering Member of WSP
LANGAN
PASE

ISSUES

1	11.22.2024	SCHEMATIC DESIGN

REVISIONS

kW Mission Critical Engineering
Contact: Jacob Czechan Phone: 414.308.2320

NOT FOR CONSTRUCTION

Date of issue:
11.22.2024

GIC Vernon, LLC

GEP Vernon

BUILDING 1: 3163 East Vernon Avenue
Vernon, California 90058

BUILDING 2: 3049 East Vernon Avenue
Vernon, California 90058

MECHANICAL SCHEDULES

JOB 37567.7408
DATE 11.22.2024
SHEET
M06-01

FAN COIL WALL (FCW) UNIT SCHEDULE - OFCI

TAG	PHASE	LOCATION	FANS (QUANTITY)	RETURN AIRFLOW (ACFM)	ESP (InH2O)	FAN POWER (kW)	FLUID	NET TOTAL COOLING CAPACITY (kW)	NET SENSIBLE COOLING CAPACITY (kW)	FLUID FLOW (GPM)	UNIT FLUID PD (FT H2O)	EWT (°F)	LWT (°F)	UNIT EAT DB (°F)	UNIT EAT WB (°F)	UNIT LAT DB (°F)	UNIT LAT WB (°F)	COOLING COIL ROWS	V/P/Hz	DIMENSIONS (LxWxH)	MANUFACTURER	MODEL	NOTES
FCW-01-01	PHASE 1	MECHANICAL GALLERY 0150	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-02	PHASE 1	MECHANICAL GALLERY 0151	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-03	PHASE 1	MECHANICAL GALLERY 0150	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-04	PHASE 1	MECHANICAL GALLERY 0151	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-05	PHASE 1	MECHANICAL GALLERY 0150	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-06	PHASE 1	MECHANICAL GALLERY 0151	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-07	PHASE 1	MECHANICAL GALLERY 0150	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-08	PHASE 1	MECHANICAL GALLERY 0151	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-09	PHASE 1	MECHANICAL GALLERY 0150	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-10	PHASE 1	MECHANICAL GALLERY 0151	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-11	PHASE 1	MECHANICAL GALLERY 0150	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-12	PHASE 1	MECHANICAL GALLERY 0151	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-13	PHASE 1	MECHANICAL GALLERY 0150	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-14	PHASE 1	MECHANICAL GALLERY 0151	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-15	PHASE 1	MECHANICAL GALLERY 0150	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-16	PHASE 1	MECHANICAL GALLERY 0151	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-17	PHASE 1	MECHANICAL GALLERY 0150	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-18	PHASE 1	MECHANICAL GALLERY 0151	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-19	PHASE 1	MECHANICAL GALLERY 0150	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-20	PHASE 1	MECHANICAL GALLERY 0151	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-21	PHASE 1	MECHANICAL GALLERY 0150	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-22	PHASE 1	MECHANICAL GALLERY 0151	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-23	PHASE 1	MECHANICAL GALLERY 0150	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-24	PHASE 1	MECHANICAL GALLERY 0151	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-25	PHASE 1	MECHANICAL GALLERY 0150	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-26	PHASE 1	MECHANICAL GALLERY 0151	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-27	PHASE 1	MECHANICAL GALLERY 0150	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-28	PHASE 1	MECHANICAL GALLERY 0151	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-29	PHASE 1	MECHANICAL GALLERY 0150	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-30	PHASE 1	MECHANICAL GALLERY 0151	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-31	PHASE 1	MECHANICAL GALLERY 0151	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-01-32	PHASE 1	MECHANICAL GALLERY 0151	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-01	PHASE 1	MECHANICAL GALLERY 0250	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-02	PHASE 1	MECHANICAL GALLERY 0251	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-03	PHASE 1	MECHANICAL GALLERY 0250	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-04	PHASE 1	MECHANICAL GALLERY 0251	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-05	PHASE 1	MECHANICAL GALLERY 0250	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-06	PHASE 1	MECHANICAL GALLERY 0251	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-07	PHASE 1	MECHANICAL GALLERY 0250	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-08	PHASE 1	MECHANICAL GALLERY 0251	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-09	PHASE 1	MECHANICAL GALLERY 0250	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-10	PHASE 1	MECHANICAL GALLERY 0251	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-11	PHASE 1	MECHANICAL GALLERY 0250	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-12	PHASE 1	MECHANICAL GALLERY 0251	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-13	PHASE 1	MECHANICAL GALLERY 0250	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-14	PHASE 1	MECHANICAL GALLERY 0251	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-15	PHASE 1	MECHANICAL GALLERY 0250	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-16	PHASE 1	MECHANICAL GALLERY 0251	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-17	PHASE 1	MECHANICAL GALLERY 0250	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-18	PHASE 1	MECHANICAL GALLERY 0251	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-19	PHASE 1	MECHANICAL GALLERY 0250	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-20	PHASE 1	MECHANICAL GALLERY 0251	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-21	PHASE 1	MECHANICAL GALLERY 0250	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-22	PHASE 1	MECHANICAL GALLERY 0251	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-23	PHASE 1	MECHANICAL GALLERY 0250	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-24	PHASE 1	MECHANICAL GALLERY 0251	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-25	PHASE 1	MECHANICAL GALLERY 0250	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-26	PHASE 1	MECHANICAL GALLERY 0251	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-27	PHASE 1	MECHANICAL GALLERY 0250	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-28	PHASE 1	MECHANICAL GALLERY 0251	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-29	PHASE 1	MECHANICAL GALLERY 0250	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-30	PHASE 1	MECHANICAL GALLERY 0251	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-31	PHASE 1	MECHANICAL GALLERY 0251	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-02-32	PHASE 1	MECHANICAL GALLERY 0251	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-01	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-02	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-03	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-04	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-05	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-06	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-07	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-08	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-09	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-10	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-11	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-12	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-13	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-14	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-15	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-16	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-17	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-18	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-19	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-20	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-21	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-22	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-23	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-24	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-25	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-26	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-27	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-28	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-29	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-30	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-31	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-32	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-33	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-34	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-35	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-36	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-37	PHASE 1	MECHANICAL GALLERY 0350	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12
FCW-03-38	PHASE 1	MECHANICAL GALLERY 0351	6	60720	0.50	16.8	15% PG	366	366	166.4	23	68 °F	84 °F	95.6	67.9	75.8	61.3	6	460/3/60	120" x 60" x 144"	VERTIV	CWA606	1 - 12

NOTES
1. FRONT ACCESS, TOP CHILLED WATER PIPE CONNECTION.
2. PROVIDE WITH ONE SET OF FAN BLANK-OFF PANELS PER EVERY FOUR FCW UNITS.
3. PROVIDE MANUFACTURER MOUNTED DISCONNECT PER DIVISION 26 SPECIFICATIONS.
4. ESP LISTED DOES NOT INCLUDE ALLOWANCE FOR FILTER PRESSURE DROP. EQUIPMENT SHALL CARRY MINIMUM OF 0.5" WC DIRTY FILTER INTERNAL PRESSURE DROP.
5. DIMENSIONS LISTED ARE MAXIMUM ALLOWABLE INSTALLED PER UNIT. PROVIDE EQUIPMENT SHIPPING SPLITS AS REQUIRED FOR LARGEST COMPONENT TO FIT THROUGH DOORWAYS, CORRIDORS, AND ELEVATOR: MAXIMUM COMPONENT DIMENSIONS 120" LONG X 60" WIDE X 144" HIGH.
6. PROVIDE MERV 8, UL-NON COMBUSTIBLE RETURN AIR FILTERS.
7. PROVIDE 2-WAY, PRESSURE INDEPENDENT CONTROL VALVE. SCHEDULED WPD INCLUDES PICV PRESSURE DROP.
8. PROVIDE UNIT WITH MANUFACTURER'S CONDENSATE PUMP OR SIMILAR.
9. PROVIDE BACNET/IP COMPATIBLE DIRECT DIGITAL CONTROLLER.
10. PROVIDE WITH LEAK DETECTION CABLE FOR INSTALL AROUND UNIT ON SLAB.
11. LISTED ACFM AND NET CAPACITIES ARE MINIMUM ALLOWABLE.
12. UNIT PERFORMANCE SHALL NOT BE LESS THAN 159 ACFM / SENSIBLE NET CAPACITY KW.

MAKE UP AIR UNIT SCHEDULE

TAG	PHASE	SUPPLY FAN						COOLING COIL								HEATING				ELECTRICAL INFORMATION						MANUFACTURER	MODEL	OPERATING WEIGHT (LBS)	NOTES
		SUPPLY CFM	QTY	ESP	RPM	BHP	MOTOR HP	NET SENSIBLE CAPACITY (MBH)	NET TOTAL CAPACITY (MBH)	ENTERING DRY BULB (°F)	ENTERING WET BULB (°F)	UNIT LEAVING DRY BULB (°F)	UNIT LEAVING WET BULB (°F)	EER	REFRIGERANT TYPE	HEATING CAPACITY (MBH)	HEATING CFM	ENTERING DRY BULB (°F)	LEAVING DRY BULB (°F)	VOLTAGE (V)	PHASE	FREQUENCY (HZ)	FLA	MCA	MOP				
MAU-01	PHASE 1	6,700	1	2.08	1275	3.84	5.0	378.30	526.90	108	77	52.40	51.50	10.6	R454B	545.90	6,700	100.00	85.00	460	3	60	200	202	225	AAON	RN-050	7170	1 - 9
MAU-02	PHASE 1	6,700	1	2.08	1275	3.84	5.0	378.30	526.90	108	77	52.40	51.50	10.6	R454B	545.90	6,700	100.00	85.00	460	3	60	200	202	225	AAON	RN-050	7170	1 - 9

NOTES
1. PROVIDE UNIT IN AIR-SOURCE HEAT PUMP CONFIGURATION.
2. PROVIDE 2" PLEATED MERV 8 AND 4" PLEATED MERV 13 FILTERS
3. PROVIDE UNIT WITH BACNET IP CONTROLS
4. PROVIDE WITH FACTORY WIRED 115V CONVENIENCE OUTLET, CONTROL PANEL LED SERVICE LIGHTS, AND REMOTE START/STOP CONTACTS.
5. PROVIDE WITH OA AIRFLOW MONITORING STATION
6. PROVIDE WITH PARALLEL MODULATING HOT GAS REHEAT MICROCHANNEL COIL.
7. PROVIDE UNIT WITH SINGLE POINT POWER - NON FUSED DISCONNECT SWITCH.
8. PROVIDE WITH FACTORY MOUNTED VIBRATION ISOLATORS
9. PROVIDE 24" MIN. ROOF CURB

CORGAN
kW Mission Critical Engineering Member of WSP
LANGAN
PASE

○	ISSUES	
1	11.22.2024	SCHEMATIC DESIGN

△ REVISIONS

kW Mission Critical Engineering
Contact: Jacob Czechan Phone: 414.308.2320

NOT FOR CONSTRUCTION

Date of issue:
11.22.2024

GIC Vernon, LLC

GEP Vernon

BUILDING 1: 3163 East Vernon Avenue
Vernon, California 90058

BUILDING 2: 3049 East Vernon Avenue
Vernon, California 90058

MECHANICAL SCHEDULES

JOB 37567.7408
DATE 11.22.2024
SHEET
M06-02

SPLIT SYSTEM OUTDOOR AIR COOLED CONDENSING UNIT SCHEDULE

TAG	PHASE	AMBIENT TEMP (°F)	RATED COOLING CAPACITY (BTU/H)	EER2	SEER2	REFRIGERANT TYPE	ELECTRICAL DATA (PER UNIT) PHASE	VOLTAGE	FREQUENCY	RLA	MCA	MOP	DISCONNECT SWITCH	WEIGHT (LBS)	DIMENSIONS (WxHxL)	MANUFACTURER	MODEL
ODU-0532-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0532-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0532-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0533-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0533-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0533-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0535-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0535-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0535-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0537-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0537-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0537-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0539-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0539-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0539-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0541-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0541-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0541-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0543-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0543-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0543-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0557-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0557-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0557-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0561-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0561-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0561-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0563-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0563-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0563-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0565-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0565-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0565-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0567-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0567-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0567-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0569-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0569-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0569-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0569-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0569-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0569-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0571-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0571-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0571-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0573-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0573-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0573-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0575-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0575-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0575-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0577-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0577-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0577-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0579-01	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0579-02	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK
ODU-0579-03	PHASE 1	115	18,000	10.7	20.2	R410A	1	208/230	60	7	11	28	BY MANUFACTURER	99	32x12x25	MITSUBISHI	PUY-A18NK

SPLIT SYSTEM INDOOR UNIT SCHEDULE

TAG	PHASE	ASSOCIATED OUTDOOR UNIT	UNIT TYPE	COOLING INFORMATION REQUIRED COOLING CAPACITY (BTU/HR)	REFRIGERANT TYPE	ELECTRICAL DATA VOLTAGE	HZ	DISCONNECT SWITCH	MCA (A)	MANUFACTURER	WEIGHT (LBS)	MODEL	NOTES
IDU-0532-01	PHASE 1	ODU-0532-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0532-02	PHASE 1	ODU-0532-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0532-03	PHASE 1	ODU-0532-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0533-01	PHASE 1	ODU-0533-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0533-02	PHASE 1	ODU-0533-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0533-03	PHASE 1	ODU-0533-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0535-01	PHASE 1	ODU-0533-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0535-02	PHASE 1	ODU-0533-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0535-03	PHASE 1	ODU-0533-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0537-01	PHASE 1	ODU-0537-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0537-02	PHASE 1	ODU-0537-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0537-03	PHASE 1	ODU-0537-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0539-01	PHASE 1	ODU-0539-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0539-02	PHASE 1	ODU-0539-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0539-03	PHASE 1	ODU-0539-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0541-01	PHASE 1	ODU-0541-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0541-02	PHASE 1	ODU-0541-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0541-03	PHASE 1	ODU-0541-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0543-01	PHASE 1	ODU-0543-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0543-02	PHASE 1	ODU-0543-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0543-03	PHASE 1	ODU-0543-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0557-01	PHASE 1	ODU-0557-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0557-02	PHASE 1	ODU-0557-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0557-03	PHASE 1	ODU-0557-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0559-01	PHASE 1	ODU-0559-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0559-02	PHASE 1	ODU-0559-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0559-03	PHASE 1	ODU-0559-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0561-01	PHASE 1	ODU-0561-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0561-02	PHASE 1	ODU-0561-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0561-03	PHASE 1	ODU-0561-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0563-01	PHASE 1	ODU-0563-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0563-02	PHASE 1	ODU-0563-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0563-03	PHASE 1	ODU-0563-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0565-01	PHASE 1	ODU-0565-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0565-02	PHASE 1	ODU-0565-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0565-03	PHASE 1	ODU-0565-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0567-01	PHASE 1	ODU-0567-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0567-02	PHASE 1	ODU-0567-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0567-03	PHASE 1	ODU-0567-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0569-01	PHASE 1	ODU-0569-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0569-02	PHASE 1	ODU-0569-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0569-03	PHASE 1	ODU-0569-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0571-01	PHASE 1	ODU-0571-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0571-02	PHASE 1	ODU-0571-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0571-03	PHASE 1	ODU-0571-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0573-01	PHASE 1	ODU-0573-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0573-02	PHASE 1	ODU-0573-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0573-03	PHASE 1	ODU-0573-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0575-01	PHASE 1	ODU-0575-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0575-02	PHASE 1	ODU-0575-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0575-03	PHASE 1	ODU-0575-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0577-01	PHASE 1	ODU-0577-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0577-02	PHASE 1	ODU-0577-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0577-03	PHASE 1	ODU-0577-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0579-01	PHASE 1	ODU-0579-01	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0579-02	PHASE 1	ODU-0579-02	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1
IDU-0579-03	PHASE 1	ODU-0579-03	WALL MOUNTED UNIT	18000	R414A	208/230	60	-	1	MITSUBISHI	28	PKA-AL18	1

NOTES:
1. THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL GPS BI-POLAR IONIZATION AIR PURIFICATION SYSTEM INSIDE THE INDOOR TERMINAL UNIT (IDU). COORDINATE DEVICE TYPE WITH AIR PURIFICATION MANUFACTURER, BASED ON IDU STYLE. AIR PURIFICATION SYSTEM SHALL BE POWERED FROM THE 24-VAC CONTROL POWER FROM WITHIN THE VRF IDU TO OPERATE ANYTIME THE FAN IS OPERATIONAL. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL WIRING TERMINATIONS AND SYSTEM CHECKOUT AND START-UP.

11/22/2024 2:46:39 PM M06-03 MECHANICAL SCHEDULES

CORGAN
kW Mission Critical Engineering Member of WSP
LANGAN
PASE

ISSUES		
1	11.22.2024	SCHEMATIC DESIGN

REVISIONS

kW Mission Critical Engineering
Contact: Jacob Czechan Phone: 414.308.2320

NOT FOR CONSTRUCTION

Date of issue:
11.22.2024

GIC Vernon, LLC

GEP Vernon
BUILDING 1: 3163 East Vernon Avenue
Vernon, California 90058
BUILDING 2: 3049 East Vernon Avenue
Vernon, California 90058

MECHANICAL SCHEDULES

JOB 37567.7408
DATE 11.22.2024
SHEET
M06-03