

The Philadelphia Parking Authority
701 Market Street, Suite 5400
Philadelphia, PA 19106

Bid No. 24-17

Electrical Upgrades at Autopark at Fashion District and Autopark at Olde City
Addendum Seven

To: See Email Distribution List

From: Shannon Stewart
Manager of Contract Administration

Date: August 20, 2024

No Pages: 2 plus Appendix A-B

This addendum is issued on August 20, 2024, prior to the bid due date to add, delete, modify, clarify and/or to respond to questions submitted by Prospective Bidders regarding the work included in the above referenced solicitation.

CHANGES TO THE BID DOCUMENT

1. **Revised Drawings – Fashion District:** ED-108, E-208, E-602, E-603, E-604 have been revised and are attached as Appendix A.
2. **Revised Drawings – Olde City:** E-600, E-602, E-603, E-604 have been revised and are attached as Appendix B.

QUESTIONS

3. **Question:** Would it be possible to have an additional site visit at the Autopark at Fashion District. Specifically, we would like to see inside the rooftop generator housing and inside the main electrical room.

Response: A site visit will take place on Thursday, August 22, 2024 at 8:30 AM to offer potential bidders an opportunity to review the current rooftop generator and grant access to the Main Electrical Room at the Fashion District Garage only. Bidders must confirm attendance by emailing Shannon Stewart no later than Thursday, August 22, 2024 at 8:00 AM. Bidders must meet on the roof of the Fashion District Garage by the generator.

4. **Question:** Regarding both panel schedules, most panel schedules are missing the AIC rating and has a note that reads “(See Note 3)”. Note 3 does not exist on this Addendum #4. Please advise, as this AIC Rating is important in pricing these panels.

Response: AIC rating has been added to most panels. Where AIC could not be determined, for bidding purposes, assume 14,000 AIC for 480Y/277V panels and 10,000 AIC for 208Y/120V panels.

5. **Question:** Regarding Fashion District panel schedules, there is an Extra Panel “HP-Courts Electric Room” listed on the Fashion District Panel Schedules not in Scope of Work. Panel HP in Courts Elec Room is Existing to Remain as per ED-108. Please advise that we can exclude this panel from our scope of work.

Response: This panel is listed for mid-term replacement and is part of this scope of work. Please see Appendix A for revised Sheets ED-108 and E-208.

6. **Question:** Regarding Old City panel schedules, there are missing panels from the Old City Panel Schedules for new panels that are in the Scope of Work: Hand Dryer Panel in Janitor Closet, Panel EDP in Elec Room and Panel HP2 in Vacant Restaurant. Please provide panel schedules for these panels.

Response: Panel schedules have been added, please see Appendix B for revised Sheets E-603 and E-604.

END OF ADDENDUM SEVEN

Bid No. 24-17 Addendum #7 - Appendix A
Revised Fashion District Drawings



PHILADELPHIA PARKING AUTHORITY PARKING GARAGE ELECTRICAL UPGRADES

FASHION DISTRICT - PHILADELPHIA, PENNSYLVANIA

FINAL PLANS - BID SET

ZONING INFORMATION

JURISDICTION
CITY OF PHILADELPHIA

PROJECT DESCRIPTION

THIS PROJECT FOCUSES ON REPLACING EXISTING ELECTRICAL EQUIPMENT THAT IS AT OR NEARING END OF LIFE. THE PROJECT IS REPLACING THE EXISTING GENERATOR WITH A LARGER GENERATOR TO PROVIDE BACKUP CAPABILITIES FOR ALL FIRST FLOOR TENANT SPACES.

APPLICABLE CODES

APPLICABLE CODES:
PHILADELPHIA BUILDING CODE (2018 INTERNATIONAL BUILDING CODE)
PHILADELPHIA ELECTRICAL CODE (2017 NATIONAL ELECTRICAL CODE)

PROJECT CONTACTS

CLIENT NAME: PHILADELPHIA PARKING AUTHORITY
CLIENT PROJECT MANAGER: MELISSA HOCH
CLIENT PROJECT MANAGER CONTACT: 215-913-8578, MHOCH@PHILPARK.COM
ENGINEER OF RECORD: JEFFREY C. SALLEE, P.E.
ENGINEER OF RECORD CONTACT: 757-213-8635, JEFFREY.SALLEE@KIMLEY-HORN.COM
PA LICENSE NUMBER: 092003

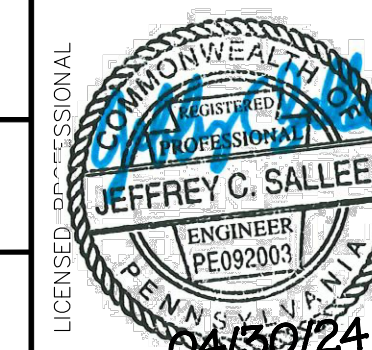


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INDEX OF SHEETS	
Sheet Number	Sheet Title
E-001	TITLE SHEET
E-002 - E-003	GENERAL NOTES
ED-100 - ED-107	DEMO POWER PLANS
ED-108	DEMO ENLARGED ELECTRICAL ROOMS
E-200 - E-207	PROPOSED POWER PLANS
E-208	PROPOSED ENLARGED ELECTRICAL ROOMS
E-600	EXISTING ONE-LINE DIAGRAM
E-601	DETAILS SHEET
E-602 - E-604	PANEL SCHEDULES
E-700 - E-707	PHASING PLANS

[illegible]

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50 SOUTH 16TH ST, TWO LIBERTY PLACE SUITE 3300
PHILADELPHIA, PA 19102
PHONE: 267-687-0150



KHA PROJECT	112359002	DATE	01/31/2024	SCALE	AS SHOWN	DESIGNED BY	JCS	DRAWN BY	LDH
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BEFORE SCALING

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

CONTRACTOR NOTE

CONTRACTOR SHALL COMPLETE INSTALL PER THE SIGNED AND THE SEALED SET OF DRAWINGS. ANY NECESSARY DEVIATIONS FROM THE DRAWINGS MUST BE SUBMITTED THROUGH AN RFI REQUEST PROCESS WITH KIMLEY-HORN FOR AN APPROVAL PRIOR TO CONTRACTOR PROCEEDING WITH A DEVIATION OF THE SIGNED AND SEALED SET OF DRAWINGS.

CALL BEFORE YOU DIG

CALL AT LEAST 3 WORKING DAYS PRIOR TO CONSTRUCTION

PENNSYLVANIA MISS UTILITY

811

TITLE SHEET

PPA GARAGE MAINTENANCE
REPAIRS- FASHION DISTRICT
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY

SHEET NUMBER
E-001



ELECTRICAL ABBREVIATIONS

A	AMPERES	M	METER OR MOTOR
AC	ALTERNATING CURRENT	MAX	MAXIMUM
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISHED GRADE	MCP	MOTOR CIRCUIT PROTECTOR
AIC	AMPERES INTERRUPTING CAPACITY	MH	METAL HALIDE OR MANHOLE
AL	ALUMINUM	MIN	MINIMUM
AT	AMP TRIP	mm	MILLIMETER
AWG	AMERICAN WIRE GAUGE	MTD	MOUNTED
AUX	AUXILLIARY	MTG	MOUNTING
BACS	BUILDING AUTOMATION CONTROL SYSTEM	MTR	MOTOR
BCU	BUILDING CONTROL UNIT	MV	MEDIUM VOLTAGE
BIL	BASIC IMPULSE LEVEL	N	NEUTRAL OR NORTH
BOT	BOTTOM OF TRAY	NA	NON-AUTOMATIC
C	CONTACTOR/CONDUIT/COIL	NC	NORMALLY CLOSED
CB	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
CD	CANDELA	N.I.C.	NOT IN CONTRACT
CKT	CIRCUIT	NF	NON-FUSED
CL	CENTERLINE	NO	NORMALLY OPEN
CP	CONTROL PANEL	NTS	NOT TO SCALE
CPT	CONTROL POWER TRANSFORMER	OC	ON CENTER
CR	CARD READER	OCB	OIL CIRCUIT BREAKER
CT	CURRENT TRANSFORMER	OL	OVERLOAD RELAY
		O/W	OIL/WATER
D	DEEP	P	POLE
DC	DIRECT CURRENT	PA	PUBLIC ADDRESS
DCS	DISTRIBUTED CONTROL SYSTEM	PB	PUSH BUTTON OR PULL BOX
DDC	DIRECT DIGITAL CONTROL	PC	PHOTOCELL
DISC	DISCONNECT	PCM	PROGRAMMABLE CONTROL MODULE
DPST	DOUBLE POLE SINGLE THROW	PNL	PANEL
DPU	DATA PROCESSING UNIT	PP	POWER PANEL
DWG	DRAWING	PVC	POLY VINYL CHLORIDE
EC	EMPTY CONDUIT	RH	RADIANT HEATER
EF	EXHAUST FAN	RMS	ROOT MEAN SQUARE
EMCS	EMERGENCY MANAGEMENT CONTROL SYSTEM	RTU	ROOF TOP UNIT
EMT	ELECTRICAL METALLIC TUBING	RU	RACK UNIT
EP	EXPLOSION PROOF	RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
EPO	EMERGENCY POWER OFF	RVNR	REDUCED VOLTAGE, NON-REVERSING
ETM	ELAPSED TIME METER		
F	FIXED-FIT	S	SLIP FIT
FACP	FIRE ALARM CONTROL PANEL	SB	SPICE BOX
FAAP	FIRE ALARM ANNUNCIATOR PANEL	SCADA	SUPERVISORY CONTROL AND DATA
FM	FREQUENCY MONITOR		AQUISITION
FVNR	FULL VOLTAGE, NON-REVERSING	SEL	SELECTOR SWITCH
		SPDT	SINGLE POLE DOUBLE THROW
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SOL	SOLENOID
GFP	GROUND FAULT PROTECTION	SS	SELECTOR SWITCH
GND	GROUND	STR	STARTER
GRS	GALVANIZED RIGID CONDUIT	STRS	STARTERS
		SW	SWITCH
H	PHASE OR HOT CONDUCTOR	TC	TIME CLOCK
HH	HANDHOLE	TTB	TELEPHONE TERMINAL BOARD
HP	HORSEPOWER	TVSS	TRANSIENT VOLTAGE SURGE
HACR	HEATING, AIR CONDITIONING & REFRIGERATION TYPE CIRCUIT BREAKER		SUPPRESSION
HID	HIGH INTENSITY DISCHARGE	UCP	UNIVERSAL CONTROL PANEL
HPS	HIGH PRESSURE SODIUM	UE	UNDERGROUND ELECTRICAL
HVAC	HEATING VENTILATION & AIR CONDITIONING	UON	UNLESS OTHERWISE NOTED
I&C	INSTRUMENTATION AND CONTROLS	V	VOLTS
IG	ISOLATION GROUND	VA	VOLT AMPERES
INS	INSULATION	VFD	VARIABLE FREQUENCY DRIVE
IPS	IRON PIPE SIZE	VRLA	VALVE REGULATED LEAD ACID
J	JUNCTION BOX	W	WIRE OR WATT
		WP	WEATHER PROOF
K	KILO	XFMR	TRANSFORMER
KCMIL	THOUSAND CIRCULAR MILS		
KVA	KILOVOLT AMPERE	2SNR	TWO SPEED, NON REVERSING
KVAR	KILOVOLT AMPERE REACTIVE		
KW	KILOWATT		
LP	LIGHTING PANEL		
LTC	LOAD TAP CHANGER		
LTG	LIGHTING		


ELECTRICAL GENERAL NOTES

1. CONTRACTOR SHALL BE FULLY INFORMED OF ALL EXISTING CONDITIONS THAT AFFECT THE WORK AND COST OF THE INTENDED WORK. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND EXAMINE THE DRAWINGS AS THEY RELATE TO SITE CONDITIONS. BIDDERS WHO DO NOT VISIT THE SITE MAY BE UNILATERALLY NOT PERMITTED TO SUBMIT A BID IF THE OWNER SO DECIDES.
2. ELECTRICAL CONTRACTOR SHALL FULLY UNDERSTAND DESIGN PRIOR TO BID. ANY ALLEGED MISUNDERSTANDING OF THE SCOPE, DESIGN OR WORK TO BE PERFORMED WILL REMOVE CONSIDERATION FOR SELECTION. SELECTED ELECTRICAL CONTRACTOR SHALL BE IN FULL AGREEMENT TO THE ITEMS AND CONDITIONS INDICATED IN THE PLANS AND SPECIFICATIONS. ANY DISCREPANCIES OR OMISSIONS FOUND IN THE CONTRACT DOCUMENTS OR DOUBT AS TO THE INTENT SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER OR PROJECT MANAGER. WHERE CLARIFICATION CAN NOT BE PROVIDED PRIOR TO BID, CONTRACTOR SHALL ASSUME THE MORE EXPENSIVE METHOD FOR BID.
3. EXISTING LOCATIONS AND CONDITIONS OF ELECTRICAL EQUIPMENT SHOWN ON DRAWINGS HAVE BEEN OBTAINED FROM IMAGES AND RECORD DRAWINGS TO INDICATE A CLOSE REPRESENTATION AS TO EXISTING SITE CONDITIONS. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDS AND VERIFY THE ITEMS SHOWN AS WELL AS EXISTING CONDITIONS NOT DISPLAYED ON THE DRAWINGS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FULLY COMPLETE AND FUNCTIONAL SYSTEM AS INTENDED IN THE PLANS. ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, EQUIPMENT, ACCESSORIES AND PERMITS SHALL BE FURNISHED BY THE CONTRACTOR. CONTRACTOR SHALL ASSUME THE RESPONSIBILITY OF COORDINATION WITH ALL OTHER TRADES IN ORDER TO COMPLETE THE WORK INTENDED. ALL COORDINATION ITEMS RESULTING IN ADDITIONAL EXPENSE SHALL NOT BE EXPENSED TO THE OWNER. DRAWINGS AND SPECIFICATIONS DO NOT INDICATE EVERY ITEM OF MATERIAL, EQUIPMENT OR LABOR REQUIRED TO PRODUCE A COMPLETE AND PROPERLY OPERATING INSTALLATION.
5. CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS, LICENSES AND INSPECTIONS AS REQUIRED BY LOCAL AND NATIONAL REGULATIONS. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR EXPENSES CREATED IN CONNECTION WITH THE WORK.
6. CONTRACTOR SHALL NOT CONCEAL ANY WORK UNTIL APPROVED BY ELECTRICAL INSPECTOR OR ENGINEER.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH APPLICABLE STANDARDS AND REGULATIONS INCLUDING ACCORDANCE WITH THE LATEST ADOPTED NATIONAL ELECTRICAL CODE (NEC) AND ALL ADDITIONAL REQUIREMENTS BY LOCAL AHJ.
8. ALL WORKMANSHIP SHALL BE NEAT AND ORGANIZED IN ACCORDANCE WITH APPLICABLE STANDARDS AND SHALL BE SUBJECT TO APPROVAL OF THE OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE. RACEWAY, FIXTURES AND WIRING DEVICES SHALL BE PROPERLY ALIGNED, LEVELED AND SUPPORTED. RACEWAY SHALL BE GROUPED AND INSTALLED IN RUNS WHICH ARE PARALLEL AND PERPENDICULAR WITH BUILDING LINES.
9. LOCATIONS ON ELECTRICAL PLANS ARE APPROXIMATE. FINAL LOCATION OF EQUIPMENT AND DEVICES TO BE FIELD COORDINATED WITH OWNER AND/OR OWNER'S REPRESENTATIVE. CONTRACTOR SHALL COORDINATE ALL TEMPORARY INTERRUPTIONS TO POWER WITH ALL AFFECTED PARTIES PRIOR TO INTERRUPTION. ALL INTERRUPTIONS SHALL BE KEPT TO A MINIMUM DURATION. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL TEMPORARY POWER REQUESTED BY AFFECTED PARTIES THROUGHOUT THE DURATION OF THE INTERRUPTION.
10. ALL ELECTRICAL MATERIALS SHALL BE NEW UNLESS SPECIFICALLY OTHERWISE STATED. DEFECTIVE EQUIPMENT AND/OR EQUIPMENT DAMAGED DURING INSTALLATION
- AND/OR TESTING SHALL BE REPLACED OR REPAIRED TO MEET APPROVAL FROM ENGINEER OR INSPECTOR AT THE EXPENSE OF THE CONTRACTOR. PROPOSED EQUIPMENT SHALL BE NEMA RATED AND APPROVED.
11. CONTRACTOR SHALL SUBMIT MANUFACTURER'S STANDARD PRODUCT INFORMATION, PERFORMANCE SPECIFICATIONS, ELECTRICAL RATINGS, PHYSICAL DIMENSIONS AND ALL OTHER NECESSARY INFORMATION FOR ENGINEER TO ENSURE COMPLIANCE WITH SPECIFICATIONS. SHOP DRAWINGS AND SUBMITTALS SHALL BE REVIEWED BY ENGINEER PRIOR TO ORDERING AND INSTALLING ANY EQUIPMENT. CONTRACTOR SHALL HIGHLIGHT ITEMS TO BE REVIEWED. EQUIPMENT ORDERED WITHOUT A REVIEWED SUBMITTAL IS DONE AT THE CONTRACTOR'S OWN RISK.
12. SUBMITTALS SUBMITTED AS VALUE ENGINEERING SUBMITTALS SHALL BE LABELED AS SUCH AND OFFER A DEDUCTION OR CREDIT BACK TO THE OWNER.
13. ANY DEVIATIONS, SUBSTITUTIONS OR ALTERATIONS WITHOUT APPROVAL BY ENGINEER SHALL BE ASSUMED AS THE RESPONSIBILITY OF THE CONTRACTOR.
14. ALL LISTED CABLE SIZES ARE SIZED PER NEC REQUIREMENTS. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR MEETING CONDUIT FILL REQUIREMENTS IF A LARGER SIZED CABLE IS USED. CONTRACTOR SHALL NOT USE CABLE SMALLER THAN SPECIFIED ON PLANS.
15. LOW VOLTAGE WIRING IS NOT SHOWN IN PLANS, UNLESS SPECIFICALLY CALLED OUT. CONTRACTOR SHALL REFER TO MANUFACTURER DETAIL SHEETS FOR ADDITIONAL LOW VOLTAGE WIRING AND CONDUITS.
16. CONTRACTOR SHALL COLOR CODE NEW CABLE PER INDUSTRY STANDARD.
17. ALL CIRCUITS SHALL BE PROVIDED WITH AN INSULATED GREEN COPPER EQUIPMENT GROUND CONDUCTOR SIZED PER NEC. EQUIPMENT GROUNDS SHALL BE BONDED TO ALL EQUIPMENT AND DEVICES. USE OF METALLIC CONDUIT SHALL NOT TAKE THE PLACE OF AN EQUIPMENT GROUND CONDUCTOR.
18. ALL WIRING SHALL ADHERE TO NEC CONDUIT FILL REQUIREMENTS. ANY DEVIATION FROM CONDUIT SIZE SPECIFIED ON PLANS IS ASSUMED TO BE THE CONTRACTOR'S RESPONSIBILITY.
19. HOMERUNS REPRESENT CONDUIT AND CABLE TO SPECIFIED PANEL. CONTRACTOR SHALL FIELD ROUTE CONDUIT AS NECESSARY. CONFIRM ROUTING WITH OWNER AND ENGINEER
20. CONTRACTOR SHALL INSPECT AREA OF WORK AND PERFORM GROUND PENETRATING RADAR SCAN OR X-RAY ALL PROPOSED PENETRATIONS PRIOR TO WORK TO DETERMINE EXACT LOCATIONS OF STRUCTURAL REINFORCEMENT OR EMBEDDED SYSTEMS. COORDINATE FLOOR AND WALL PENETRATIONS WITH STRUCTURAL ENGINEER. ALL PENETRATIONS SHALL BE SEALED BY APPROVED MEANS TO PREVENT ENERGY LOSS AND MOISTURE AND RODENT INTRUSION.
21. ALL CONDUIT AND CABLING SHALL BE PROPERLY SUPPORTED AS REQUIRED BY CODE.
22. ALL CABLE SHALL BE LABELED ON BOTH ENDS AND DISTRIBUTION EQUIPMENT SHALL BE PERMANENTLY LABELED PER AHJ RECOMMENDATIONS. TYPEWRITTEN PANEL SCHEDULE SHALL BE PROVIDED WITH EQUIPMENT.
23. CONTRACTOR SHALL MAINTAIN CLEARANCES OF WORKING SPACES AS REQUIRED BY ARTICLE 110 OF THE NEC. GENERAL CONTRACTOR SHALL ASSUME RESPONSIBILITY OF COORDINATION FOR CLEARANCES AND BE RESPONSIBLE FOR ANY RELOCATION DUE TO AN IMPEDANCE OF CLEARANCES.
24. THE CONTRACTOR SHALL TEST ALL EQUIPMENT INSTALLED UNDER THE SCOPE OF WORK AND DEMONSTRATE ITS PROPER OPERATION TO THE OWNER. CONTRACTOR SHALL COORDINATE A FINAL INSPECTION OF THE SYSTEM UPON COMPLETION.
25. PRIOR TO FINAL ACCEPTANCE, ALL DEFICIENCIES IDENTIFIED SHALL BE CORRECTED AT THE CONTRACTOR'S

- EXPENSE.
26. ALL CERTIFICATES OF APPROVAL SHALL BE IN DUPLICATE, DELIVERED TO THE ENGINEER AND BECOME THE PROPERTY OF THE OWNER.
27. CONTRACTOR SHALL MAINTAIN A COPY OF ALL DRAWINGS AND APPROVED SHOP DRAWINGS ON SITE AND RECORD ALL REVISIONS AND DEVIATIONS FROM THE ORIGINAL CONSTRUCTION DRAWINGS. A COPY SHALL BE SUBMITTED TO THE ENGINEER UPON THE COMPLETION OF WORK.
28. CONTRACTOR SHALL PROVIDE TWO PRINTED COPIES AND ONE ELECTRONIC COPY OF MANUALS, SERVICE AGENCIES AND WARRANTIES TO THE OWNER UPON COMPLETION OF CONSTRUCTION.
29. THE ENTIRE ELECTRICAL SYSTEM WITHIN THIS SCOPE SHALL BE IN PROPER WORKING ORDER UPON COMPLETION OF CONSTRUCTION. ANY WORK, MATERIALS OR SYSTEMS SHOWING DEFECTS OR MALFUNCTION SHALL BE CORRECTED WITHOUT CHARGE WITHIN THE FIRST YEAR.

PPA GARAGE MAINTENANCE REPAIRS - FASHION DISTRICT PREPARED FOR PHILADELPHIA PARKING AUTHORITY PHILADELPHIA PENNSYLVANIA	SHEET NUMBER E-003	KHA PROJECT 112359002	DATE 01/31/2024	SCALE AS SHOWN DESIGNED BY JCS DRAWN BY LDH CHECKED BY LTM			ADDENDUM #1 REVISION	ADDENDUM #2 REVISION	07/29/24 JCS	08/16/24 JCS	BY	DATE	REVISIONS	
													No.	

LEGEND

 EQUIPMENT TO BE DEMOLISHED

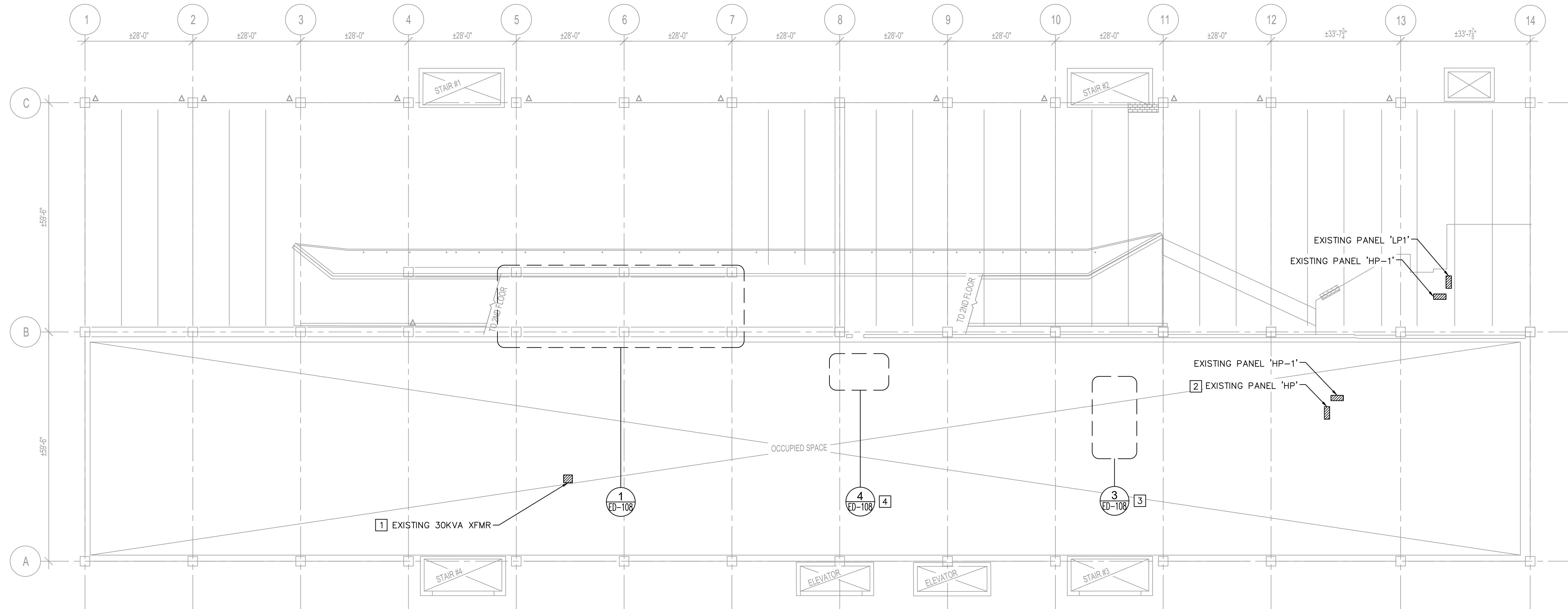
XFMR TRANSFORMER

GENERAL NOTES:

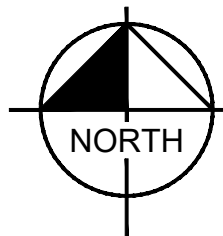
1. DEMOLISHED EQUIPMENT AND MATERIALS WILL BECOME PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE STATED BY PPA. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING DEMOLISHED EQUIPMENT AND MATERIALS FROM THE SITE.

SHEET NOTES:

- 1 EXISTING TRANSFORMER LOCATED IN VACANT OFFICE SPACE. LOCATION IS APPROXIMATE. VERIFY LOCATION AT PRE-BID WALK-THROUGH.
- 2 LOCATION OF EXISTING PANEL 'HP' IS APPROXIMATE. VERIFY LOCATION AT PRE-BID WALK-THROUGH.
- 3 LOCATION OF OFFICE ELECTRICAL ROOM IS APPROXIMATE. VERIFY LOCATION AT PRE-BID WALK-THROUGH.
- 4 LOCATION OF HALLWAY ELECTRICAL ROOM IS APPROXIMATE. VERIFY LOCATION AT PRE-BID WALK-THROUGH.

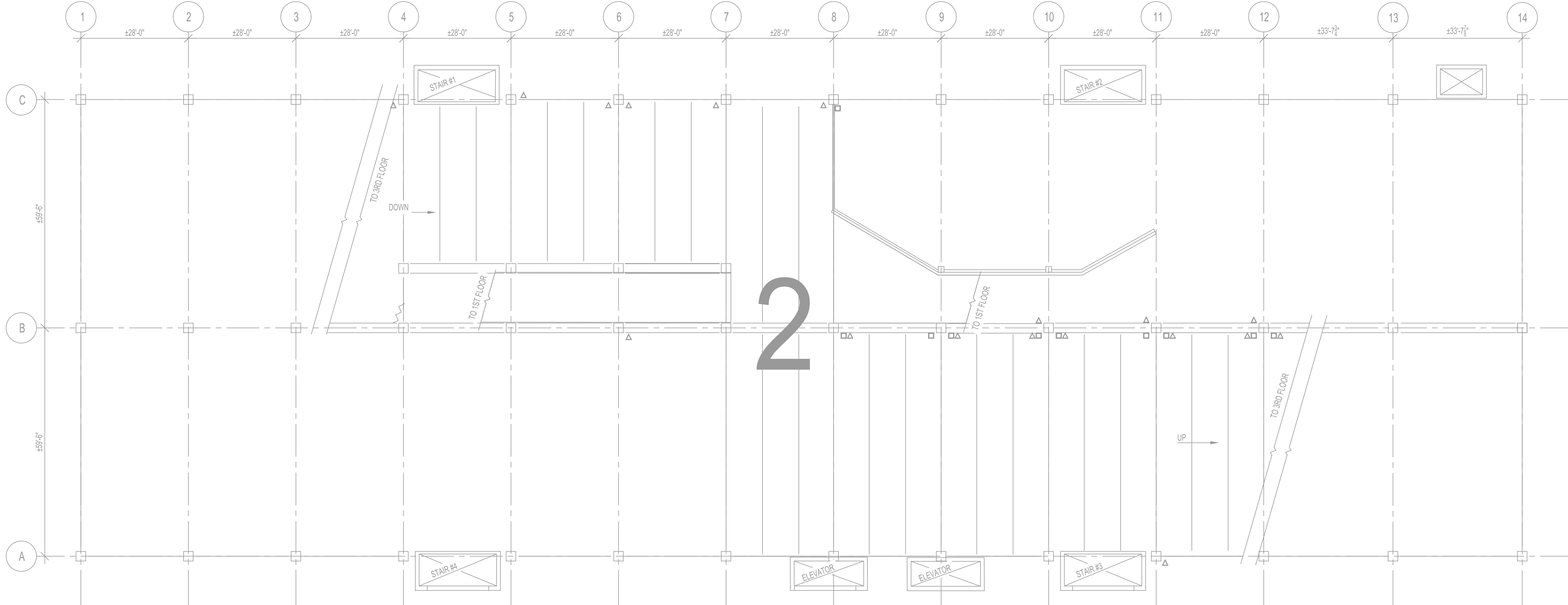


1 **DEMO POWER PLAN - GROUND FLOOR**
ED-100 1"=15'

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Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs-- Fashion District Layout:ED-101 August 19, 2024 09:19:25am K:\VAB-SYSTEMS\Other-Regions\PPA\CADD\Plant\sheet\FASHION DISTRICT\ED-101.dwg

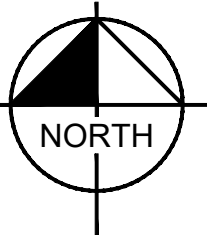
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ED-101

DEMO POWER PLAN - SECOND FLOOR

1"=15'

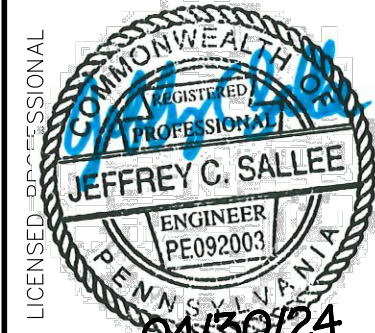


NO WORK IDENTIFIED ON THIS LEVEL

PPA GARAGE MAINTENANCE
REPAIRS - FASHION DISTRICT
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PHILADELPHIA
PENNSYLVANIA

DEMO POWER PLAN -
SECOND FLOOR

KHA PROJECT
112359002
DATE
01/31/2024
SCALE AS SHOWN
DESIGNED BY JCS
DRAWN BY LDH
CHECKED BY LTM



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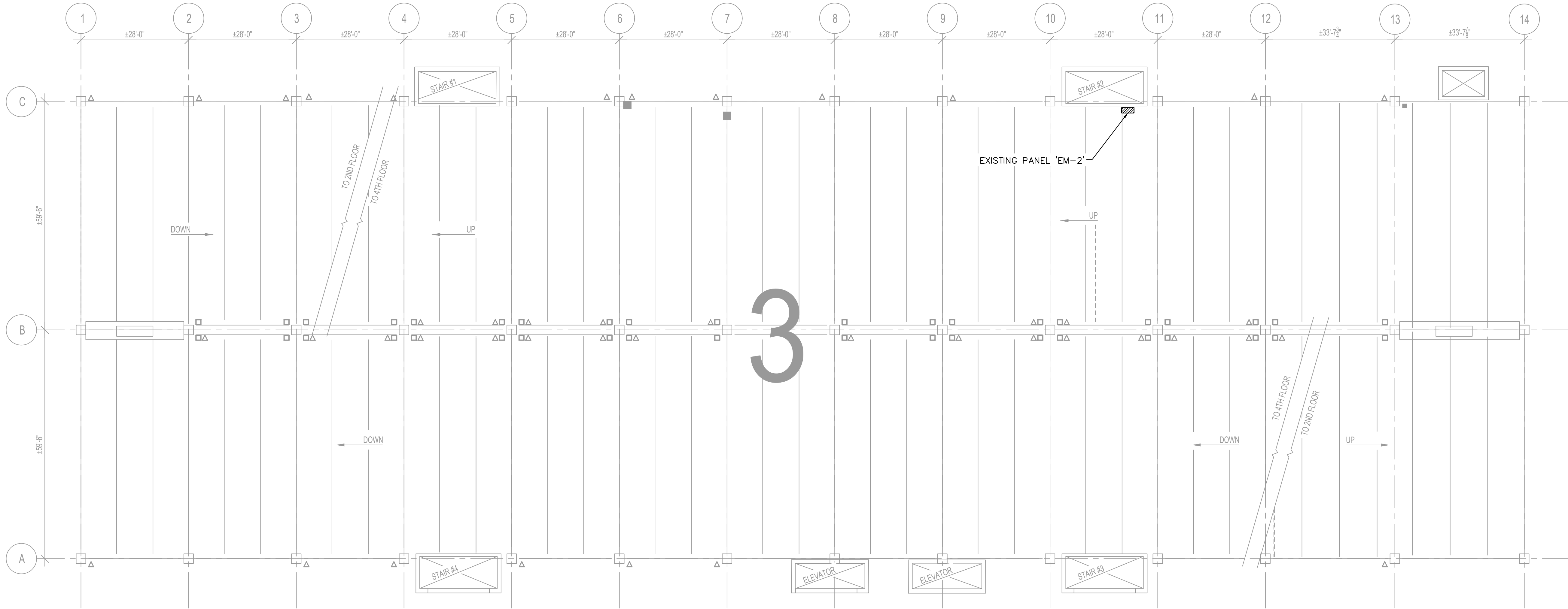
1	ADDENDUM #4 REVISION	07/29/24	JCS
2	ADDENDUM #7 REVISION	08/16/24	JCS
No.	REVISIONS	DATE	BY

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs-- Fashion District Layout:ED-102 August 19, 2024 09:19:28am K:\VAB_SYSTEMS\Other_Regions\PPA\CADD\Plansheets\FASHION DISTRICT\ED-101.dwg

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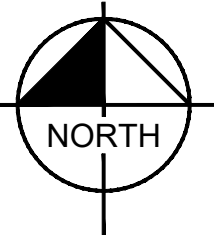
EQUIPMENT TO BE DEMOLISHED



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ED-102


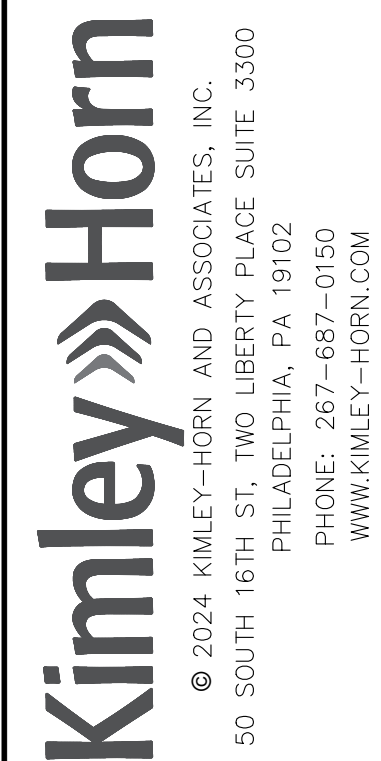
DEMO POWER PLAN - THIRD FLOOR

1"=15'



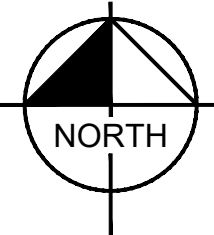
GENERAL NOTES:

- DEMOLISHED EQUIPMENT AND MATERIALS WILL BECOME PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE STATED BY PPA. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING DEMOLISHED EQUIPMENT AND MATERIALS FROM THE SITE.


PPA GARAGE MAINTENANCE REPAIRS - FASHION DISTRICT PREPARED FOR PHILADELPHIA PARKING AUTHORITY PHILADELPHIA PENNSYLVANIA	SHEET NUMBER ED-102	KHA PROJECT 112359002	DATE 01/31/2024	SCALE AS SHOWN	DESIGNED BY JCS	DRAWN BY LDH	CHECKED BY LTM		 © 2024 KIMLEY-HORN AND ASSOCIATES, INC. 50 SOUTH 16TH ST., TWO LIBERTY PLACE SUITE 3300 PHILADELPHIA, PA 19102 PHONE: 267-687-0150 WWW.KIMLEY-HORN.COM	1	ADDENDUM #4	REVISION	JCS	07/29/24
										2	ADDENDUM #7	REVISION	JCS	08/16/24
										No.	REVISIONS		DATE	BY

 EQUIPMENT TO BE DEMOLISHED

1"=15'



1. DEMOLISHED EQUIPMENT AND MATERIALS WILL BECOME PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE STATED BY PPA. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING DEMOLISHED EQUIPMENT AND MATERIALS FROM THE SITE.

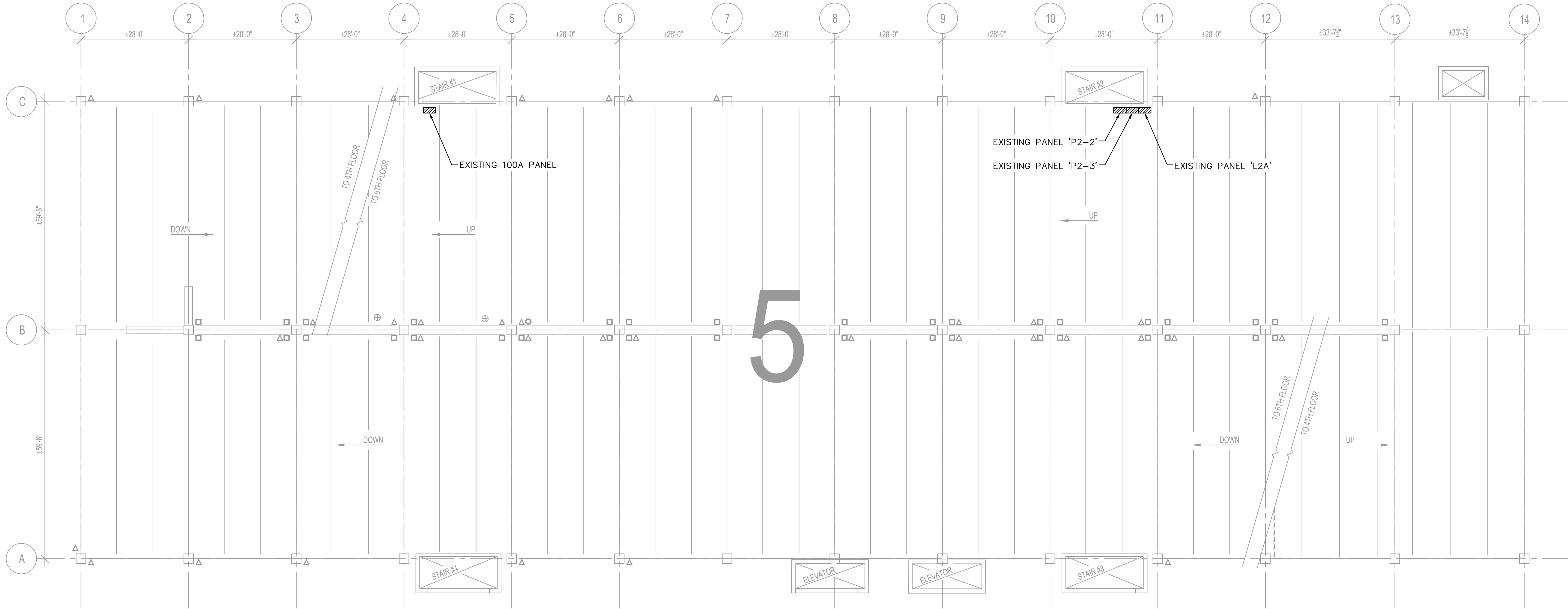
PPA GARAGE MAINTENANCE REPAIRS - FASHION DISTRICT PREPARED FOR PHILADELPHIA PARKING AUTHORITY PHILADELPHIA PENNSYLVANIA	SHEET NUMBER ED-103	DEMO POWER PLAN - FOURTH FLOOR		KHA PROJECT 112359002	 JEFFREY C. SALLEE ENGINEER 09/20/2025 PENNSYLVANIA 0436724	Kimley»»Horn © 2024. KIMLEY-HORN AND ASSOCIATES, INC. 50 SOUTH 16TH ST, TWO LIBERTY PLACE SUITE 3300 PHILADELPHIA, PA 19102 PHONE: 267-687-0150 WWW.KIMLEY-HORN.COM	1	ADDITIONAL #4 ADDITIONAL #7	ADDITIONAL #4 ADDITIONAL #7	07/29/24 08/16/24	JCS JCS
				DATE 01/31/2024			SCALE AS SHOWN	DRAWN BY JCS	CHECKED BY LDH	BY	DATE

Plotted By: Erwin, Westin Sheet Set: PPA Garage Maintenance Repairs - Fashion District Layout: E-104 August 19, 2024 09:19:40am K:\VAB-SYSTEMS\Other_Regions\PPA\CADD\Plansheets\FASHION DISTRICT\E-104.dwg

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LEGEND

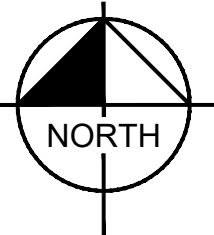
EQUIPMENT TO BE DEMOLISHED



1
ED-104


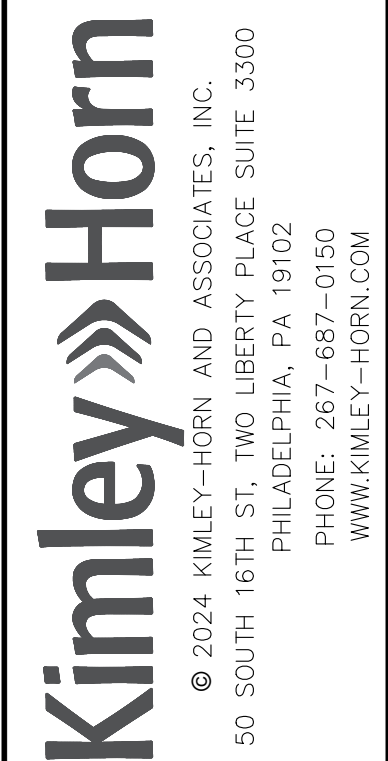
DEMO POWER PLAN - FIFTH FLOOR

1"=15'



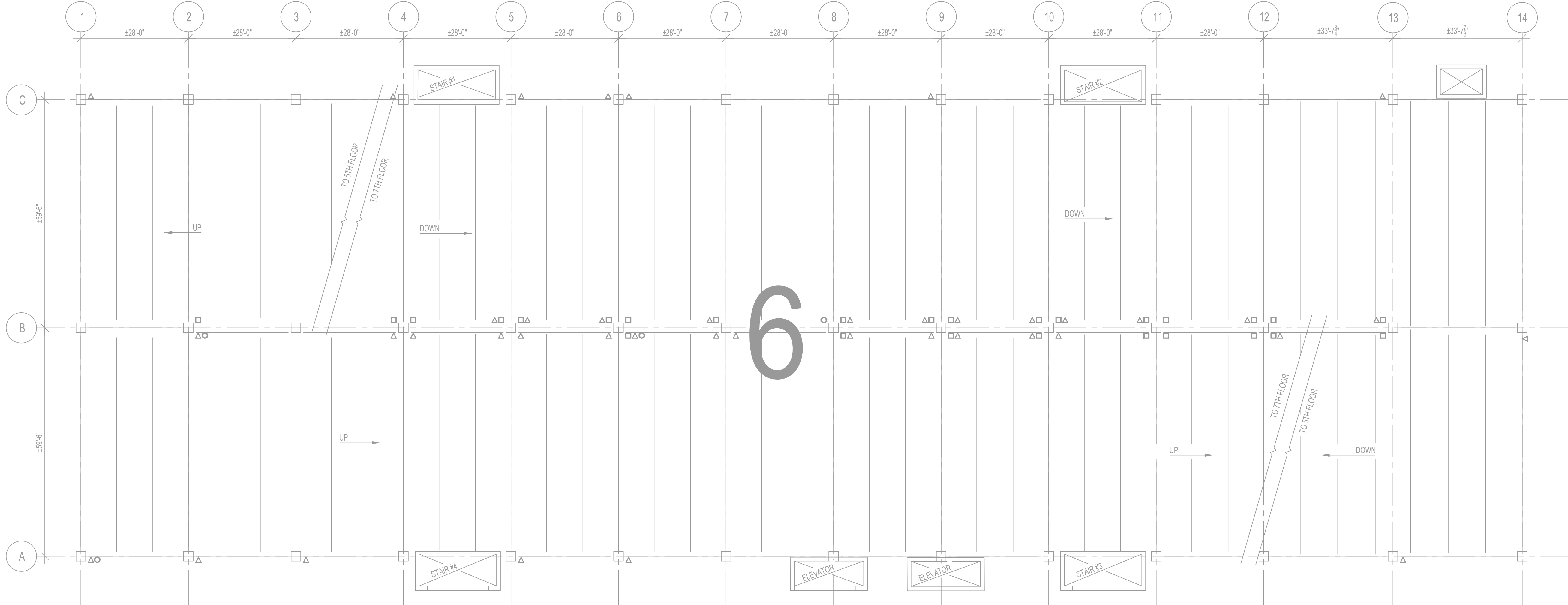
GENERAL NOTES:

- DEMOLISHED EQUIPMENT AND MATERIALS WILL BECOME PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE STATED BY PPA. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING DEMOLISHED EQUIPMENT AND MATERIALS FROM THE SITE.

PPA GARAGE MAINTENANCE REPAIRS - FASHION DISTRICT PREPARED FOR PHILADELPHIA PARKING AUTHORITY PHILADELPHIA PENNSYLVANIA	SHEET NUMBER ED-104	KHA PROJECT 112359002	DATE 01/31/2024	SCALE AS SHOWN	DESIGNED BY JCS	DRAWN BY LDH	CHECKED BY LTM			1	ADDENDUM #4	REVISION	07/29/24	JCS
										2	ADDENDUM #7	REVISION	08/16/24	JCS
										No.	REVISIONS		DATE	BY

Plotted By: Erwin, Westin Sheet Set: PPA Garage Maintenance Repairs - Fashion District Layout: ED-105 August 19, 2024 09:19:44am K:\VAB_SYSTEMS\Other_Regions\PPA\CADD\Plans\Sheet\FASHION DISTRICT\ED-101.dwg

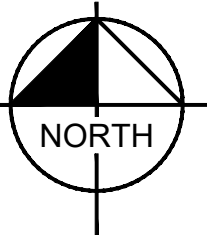
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1
ED-105

DEMO POWER PLAN - SIXTH FLOOR

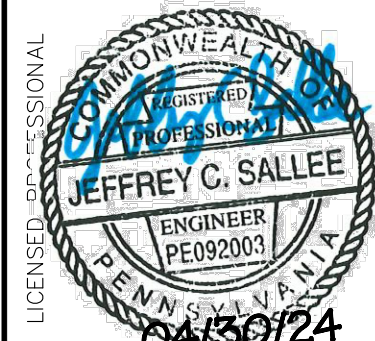
1"=15'



PPA GARAGE MAINTENANCE
REPAIRS - FASHION DISTRICT
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PHILADELPHIA PENNSYLVANIA

DEMO POWER PLAN -
SIXTH FLOOR

KHA PROJECT
112359002
DATE
01/31/2024
SCALE AS SHOWN
DESIGNED BY JCS
DRAWN BY LDH
CHECKED BY LTM

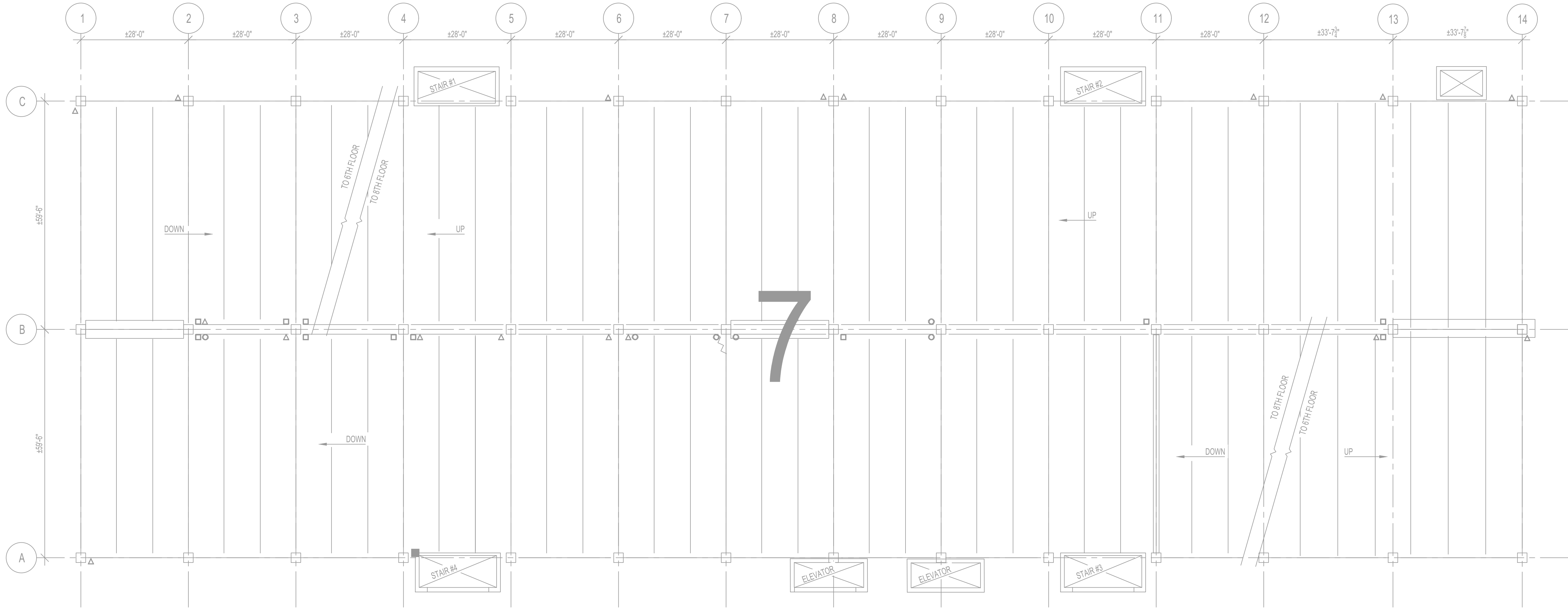


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1	ADDENDUM #4 REVISION	07/29/24	JCS
2	ADDENDUM #7 REVISION	08/16/24	JCS
No.	REVISIONS	DATE	BY

Plotted By: Erwin, Westin Sheet Set: PPA Garage Maintenance Repairs - Fashion District Layout: ED-106 August 19, 2024 09:19:49am K:\VAB_SYSTEMS\Other_Regions\PPA\CADD\Plans\Sheet\FASHION DISTRICT\ED-101.dwg

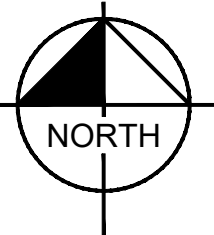
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1
ED-106

DEMO POWER PLAN - SEVENTH FLOOR

1"=15'



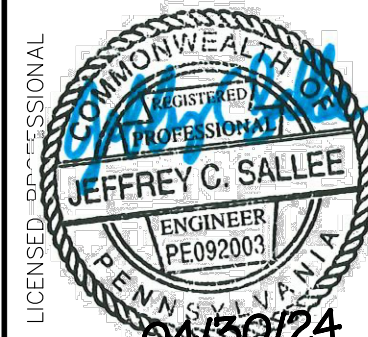
NO WORK IDENTIFIED ON THIS LEVEL

PPA GARAGE MAINTENANCE
REPAIRS - FASHION DISTRICT
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PHILADELPHIA
PENNSYLVANIA

SHEET NUMBER
ED-106

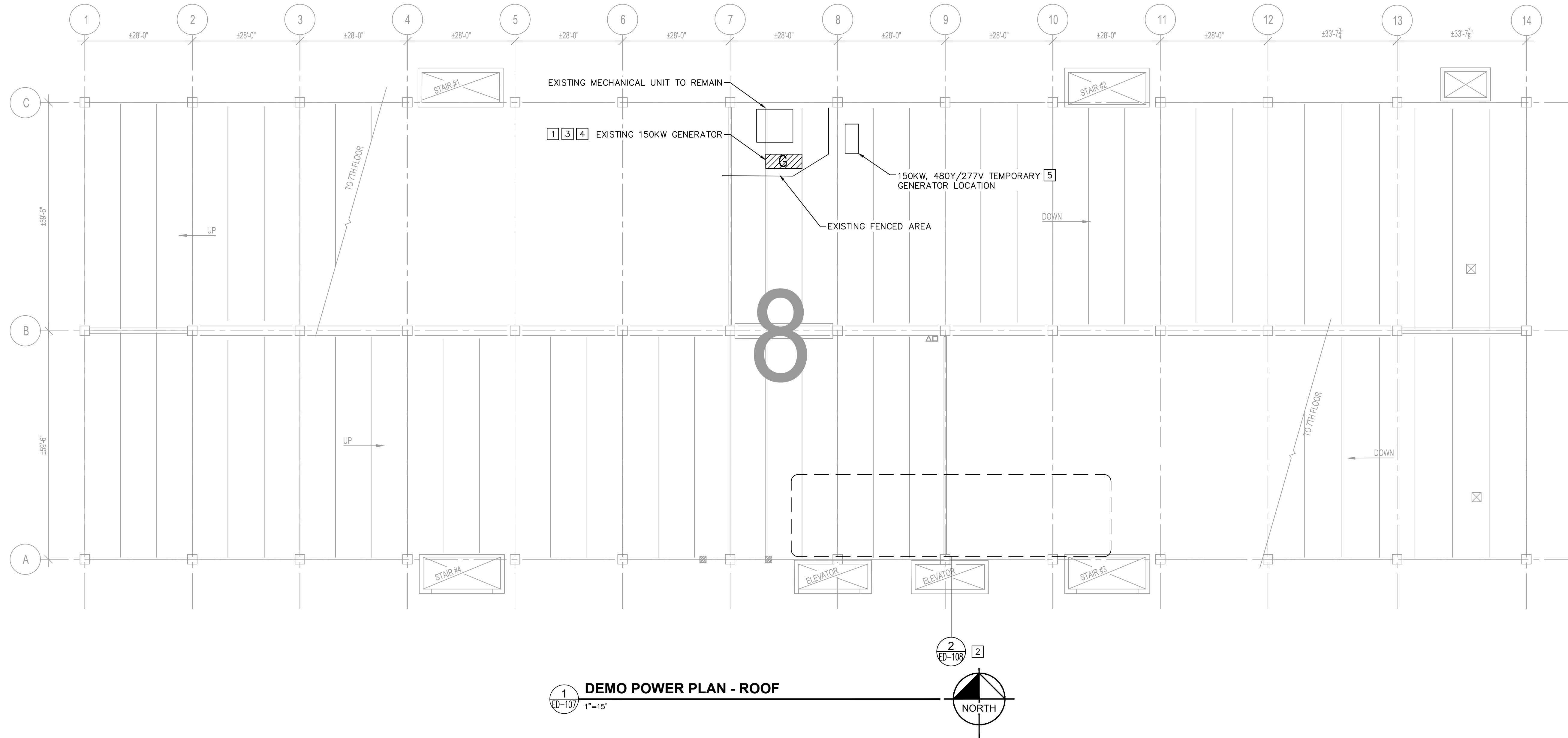
DEMO POWER PLAN -
SEVENTH FLOOR

KHA PROJECT
112359002
DATE
01/31/2024
SCALE AS SHOWN
DESIGNED BY JCS
DRAWN BY LDH
CHECKED BY LTM



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1	ADDENDUM #4 REVISION	07/29/24	JCS
2	ADDENDUM #7 REVISION	08/16/24	JCS
No.	REVISIONS	DATE	BY

 EQUIPMENT TO BE DEMOLISHED

1. DEMOLISHED EQUIPMENT AND MATERIALS WILL BECOME PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE STATED BY PPA. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING DEMOLISHED EQUIPMENT AND MATERIALS FROM THE SITE.

- 1 A 30-DAY LOAD STUDY WAS PERFORMED AT EACH FATS FROM AUGUST 31, 2023 TO OCTOBER 2, 2023 TO DETERMINE UTILIZATION OF EXISTING GENERATOR. SEE SHEET E-207 FOR MORE DETAILS.
- 2 APPROXIMATE LOCATION OF PENTHOUSE ELEVATOR MACHINE ROOM.
- 3 ENSURE DIESEL PIPING VALVES ARE CLOSED AND NOT DAMAGED DURING REMOVAL OF EXISTING GENERATOR.
- 4 CLEARANCE IN THE GARAGE IS ONLY 6'-2". CONTRACTOR SHALL PROVIDE A GENERATOR DEMOLITION PLAN TO PPA FOR APPROVAL PRIOR TO BEGINNING DEMOLITION.
- 5 CONTRACTOR SHALL PROVIDE TEMPORARY GENERATOR AFTER DEMOLISHING EXISTING GENERATOR AND PRIOR TO INSTALLATION OF PROPOSED GENERATOR.

1	ADDENDUM #4	REVISION	JCS
2	ADDENDUM #7	REVISION	JCS
No.	REVISIONS	DATE	BY

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01/31/2024	CHECKED BY				

DEMO POWER PLAN - ROOF

PPA GARAGE MAINTENANCE
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AUTHORITY
PHILADELPHIA
PENNSYLVANIA

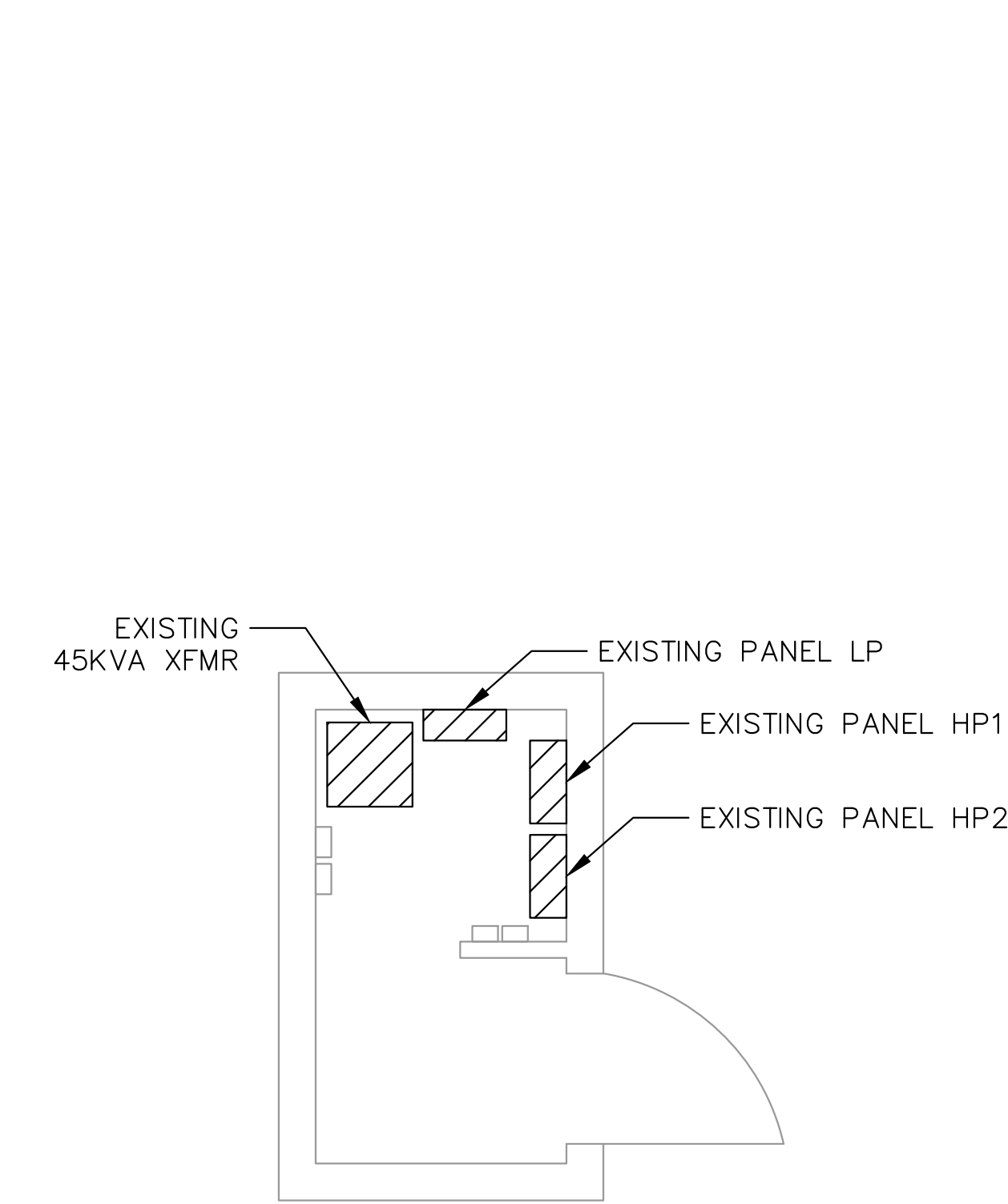
SHEET NUMBER
ED-107

Plotted By:Erwin, Westin Sheet Set:PPA, Garage Maintenance Repairs-- Fashion District Layout:ED-108 August 19, 2024 09:20:02am K:\VAB-SYSTEMS\Other-Regions\PPA\CADD\Plansheets\FASHION DISTRICT\NE-300.dwg

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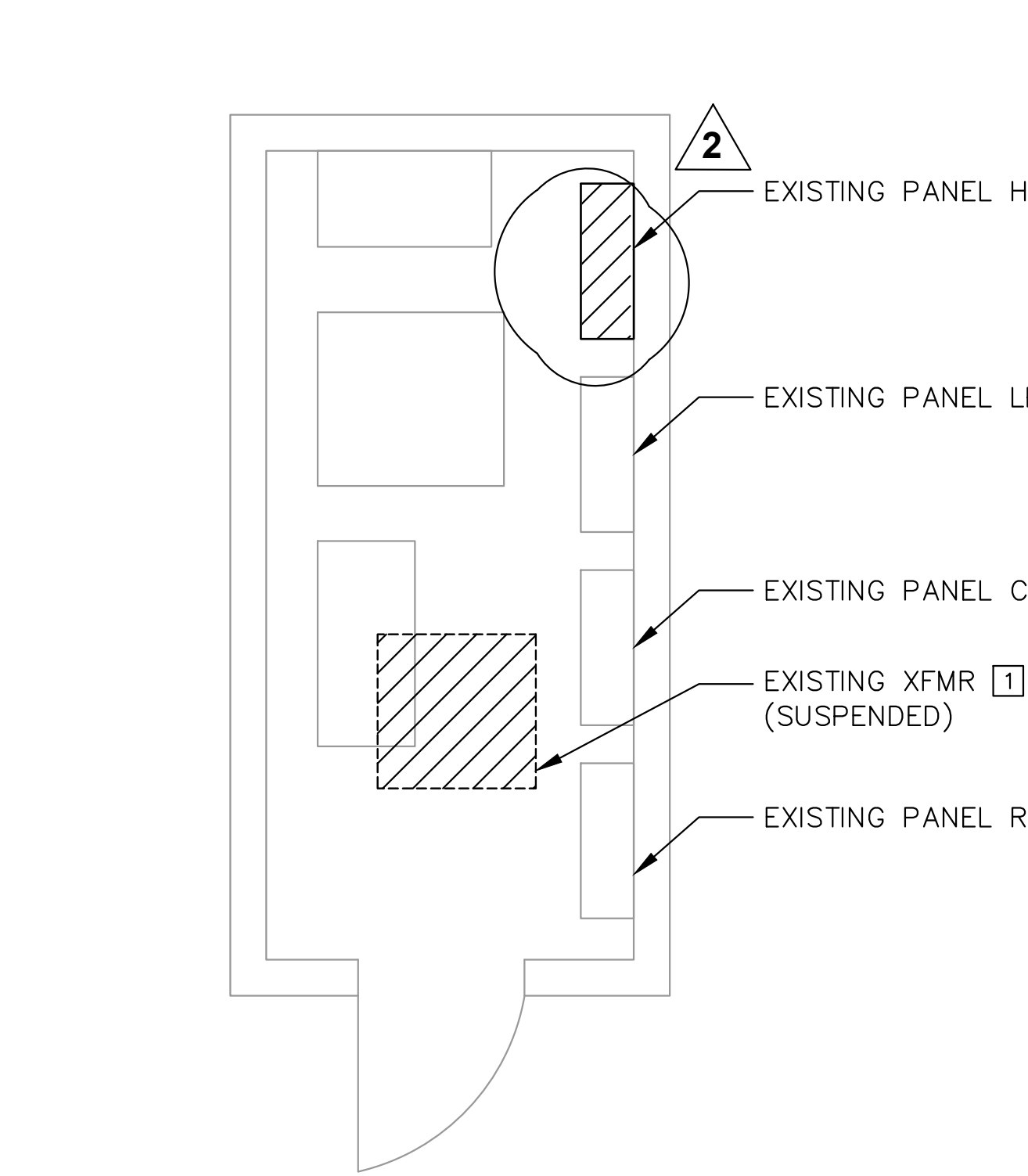
EQUIPMENT TO BE DEMOLISHED



4
ED-108

HALLWAY ELECTRICAL ROOM

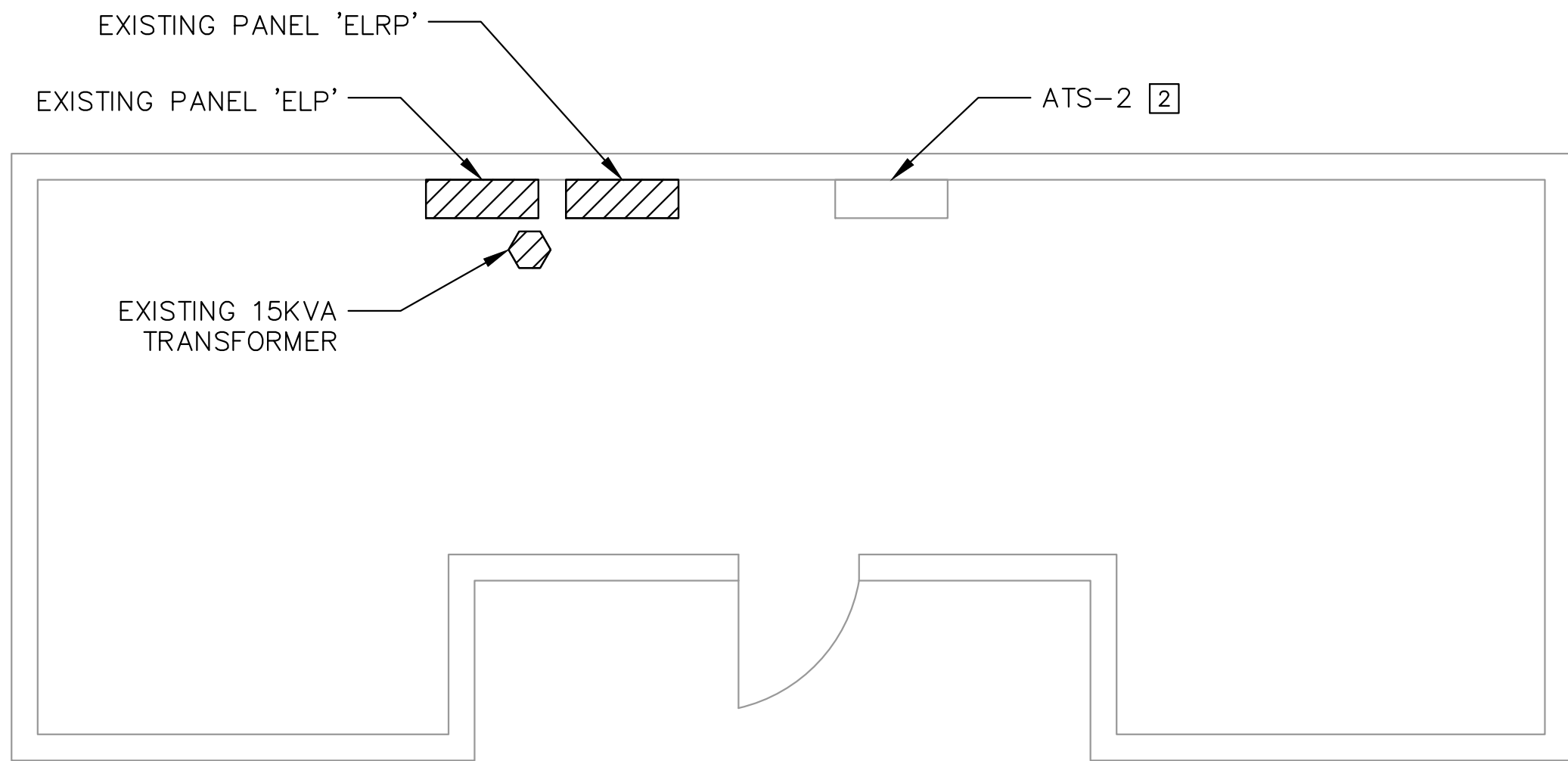
N.T.S.



3
ED-108

COURTS ELECTRICAL ROOM

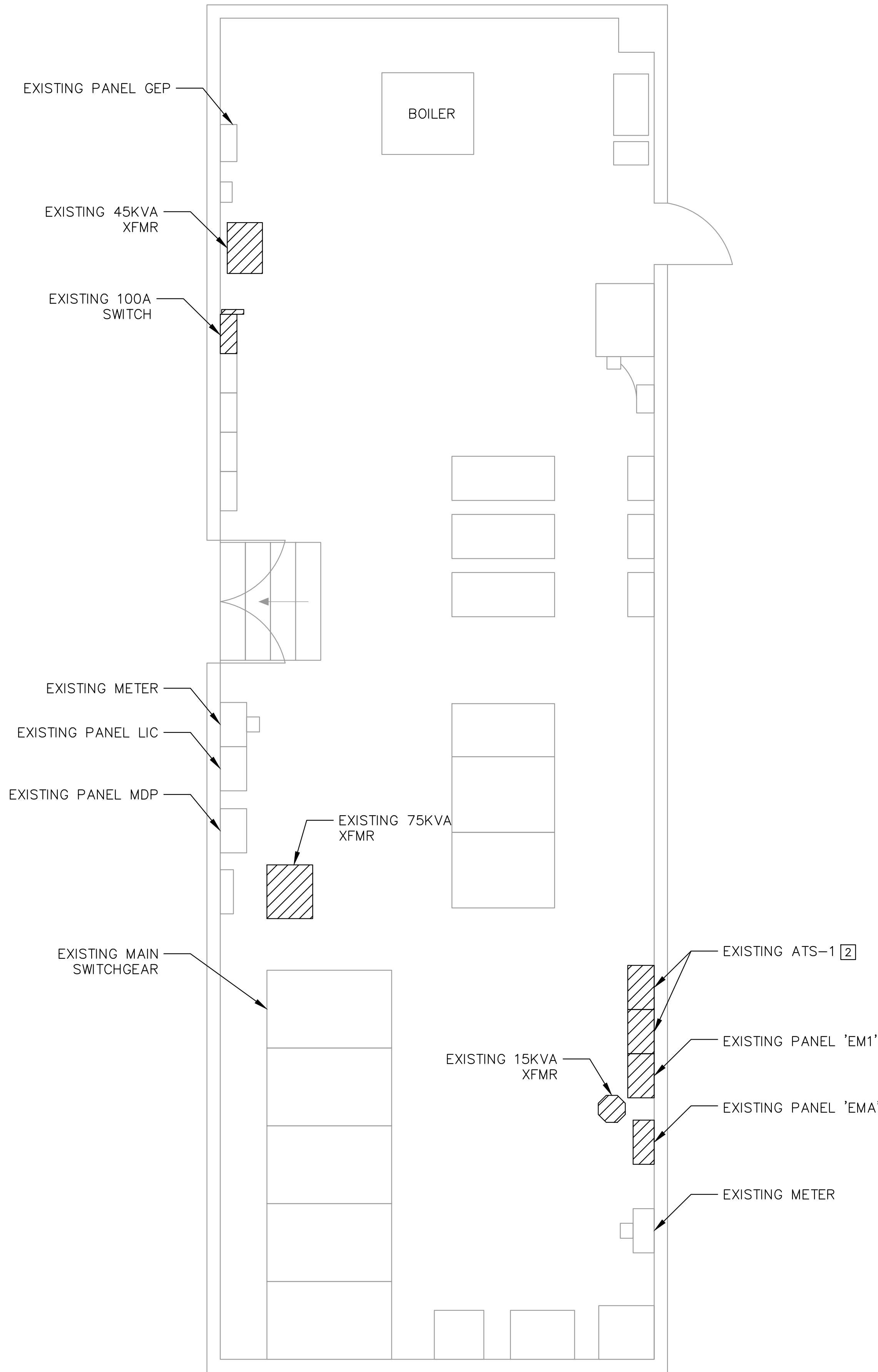
N.T.S.



2
ED-108

ELEVATOR MACHINE ROOM

N.T.S.



1
ED-108

MAIN ELECTRICAL ROOM

N.T.S.

- SHEET NOTES:
- 1

TRANSFORMER IS ABOVE DUCTWORK AND LIGHTING WHICH MAY IMPACT TRANSFORMER REPLACEMENT. VERIFY CONFLICTS IN PRE-BID WALK-THROUGH.
- 2

30-DAY LOAD STUDIES PERFORMED ON LOAD SIDE OF ATS-1 AND ATS-2. SEE E-207 FOR DATA.

PPA GARAGE MAINTENANCE
REPAIRS - FASHION DISTRICT
PREPARED FOR
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AUTHORITY

PHILADELPHIA
PENNSYLVANIA

DEMO POWER PLAN -
ENLARGED
ELECTRICAL ROOMS

KHA PROJECT
112359002

DATE
01/31/2024

SCALE AS SHOWN

DESIGNED BY

DRAWN BY

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LICENSED PROFESSIONAL
ENGINEER
JEFFREY C. SALLEE
PENN. REG. NO. PE092003
04/30/24

ADDENDUM #4 REVISION

ADDENDUM #7 REVISION

REVISIONS

NO.

DATE

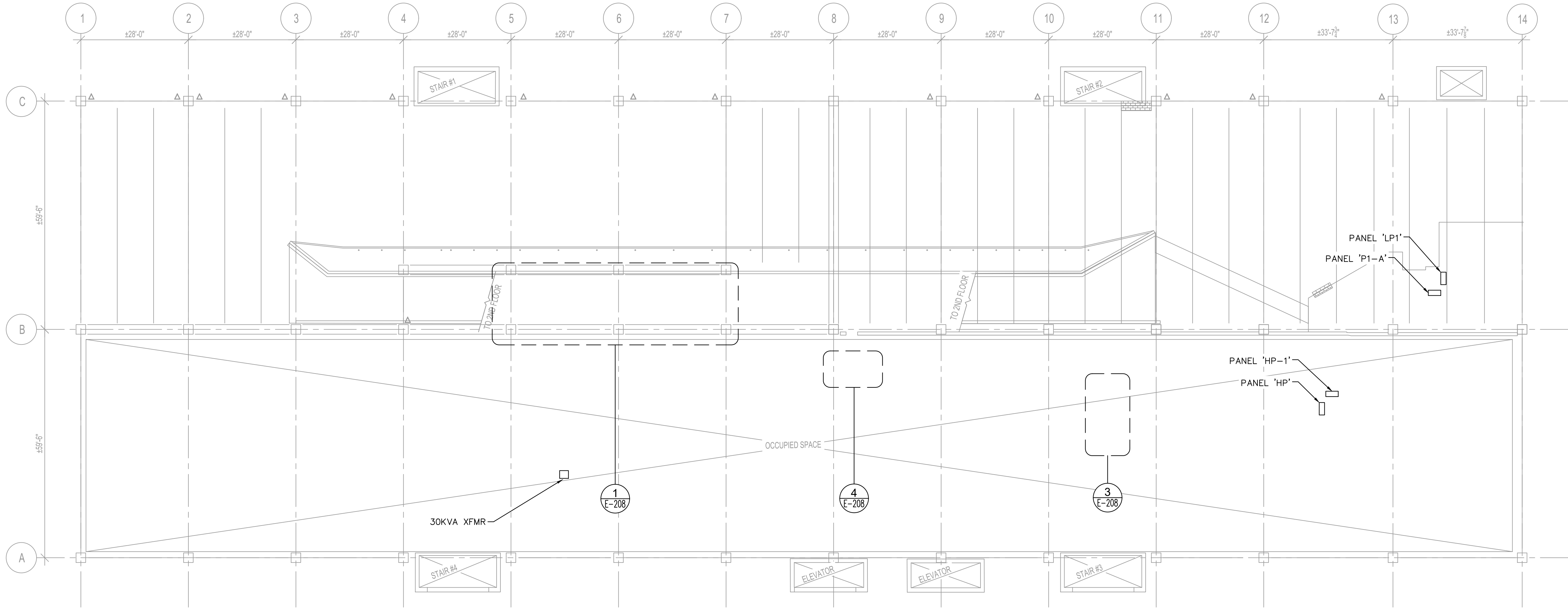
BY

SHEET NUMBER

ED-108

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs-- Fashion District Layout:E-200 August 19, 2024 09:20:07am k:\VAB-SYSTEMS\Other_Regions\PPA\CADD Plansheets\FASHION DISTRICT\E-201.dwg
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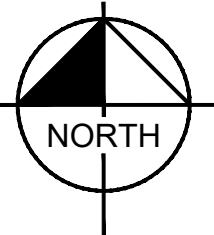
Equipment	Voltage	Amperage	KVA	Flush Mounted	Surface Mounted	Floor Mounted
Transformer			30KVA			X
Panel P1-A	120/208V	100A			X	
Panel HP	277/480V	225A			X	
Panel HP-1	277/480V	225A			X	
Panel LP-1	120/208V	100A			X	



1
E-200

PROPOSED POWER PLAN - GROUND FLOOR

1"=15'



GENERAL NOTES:

- EQUIPMENT SHOWN ON PLAN IS A ONE-FOR-ONE REPLACEMENT OF DEMOLISHED EQUIPMENT.
- CONTRACTOR SHALL RECONNECT ALL EXISTING CIRCUITS TO NEW EQUIPMENT. PROVIDE UPDATED, TYPED PANEL DIRECTORY.

1	ADDENDUM #4 REVISION	JCS	07/29/24	BY
2	ADDENDUM #7 REVISION	JCS	08/16/24	DATE
No.	REVISIONS			

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KHA PROJECT	112359002
DATE	01/31/2024
SCALE	AS SHOWN
DESIGNED BY	JCS
DRAWN BY	LDM
CHECKED BY	LTM

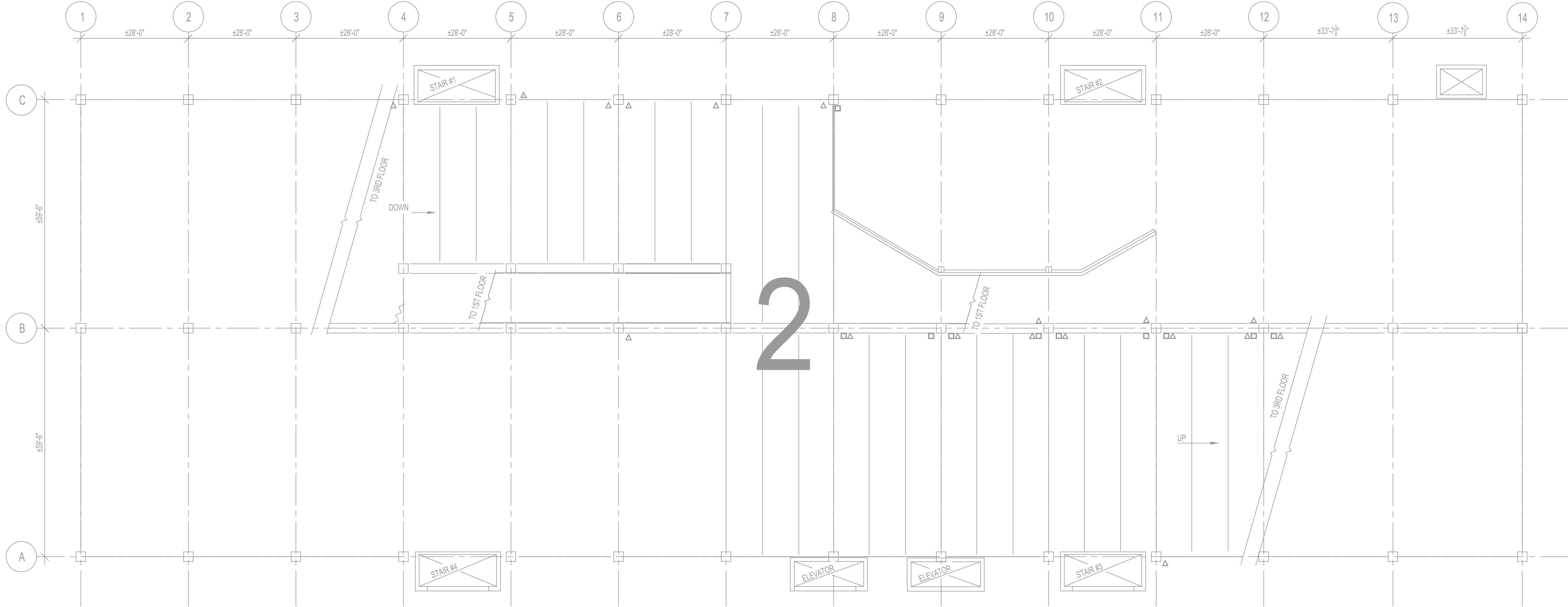
PROPOSED POWER
PLAN - GROUND
FLOOR

PPA GARAGE MAINTENANCE
REPAIRS - FASHION DISTRICT
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PHILADELPHIA
PENNSYLVANIA

SHEET NUMBER
E-200

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs-- Fashion District Layout:E-201 August 19, 2024 09:20:14pm K:\VAB-SYSTEMS\Other_Regions\PPA\CADD\Plansheets\FASHION DISTRICT\E-201.dwg

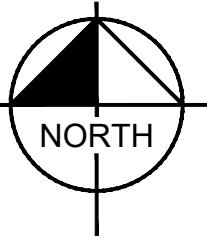
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1
E-201

PROPOSED POWER PLAN - SECOND FLOOR

1"=15'

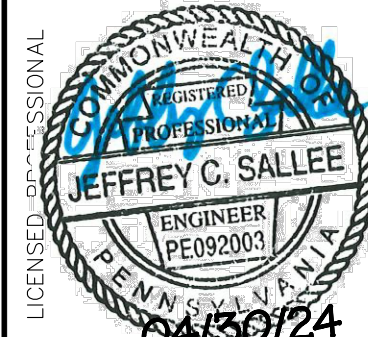


NO WORK IDENTIFIED ON THIS LEVEL

PPA GARAGE MAINTENANCE
REPAIRS - FASHION DISTRICT
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PHILADELPHIA
PENNSYLVANIA

PROPOSED POWER
PLAN - SECOND
FLOOR

KHA PROJECT
112359002
DATE
01/31/2024
SCALE AS SHOWN
DESIGNED BY JCS
DRAWN BY LDH
CHECKED BY LTM



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1	ADDENDUM #4 REVISION	07/29/24	JCS
2	ADDENDUM #7 REVISION	08/16/24	JCS
No.	REVISIONS	DATE	BY

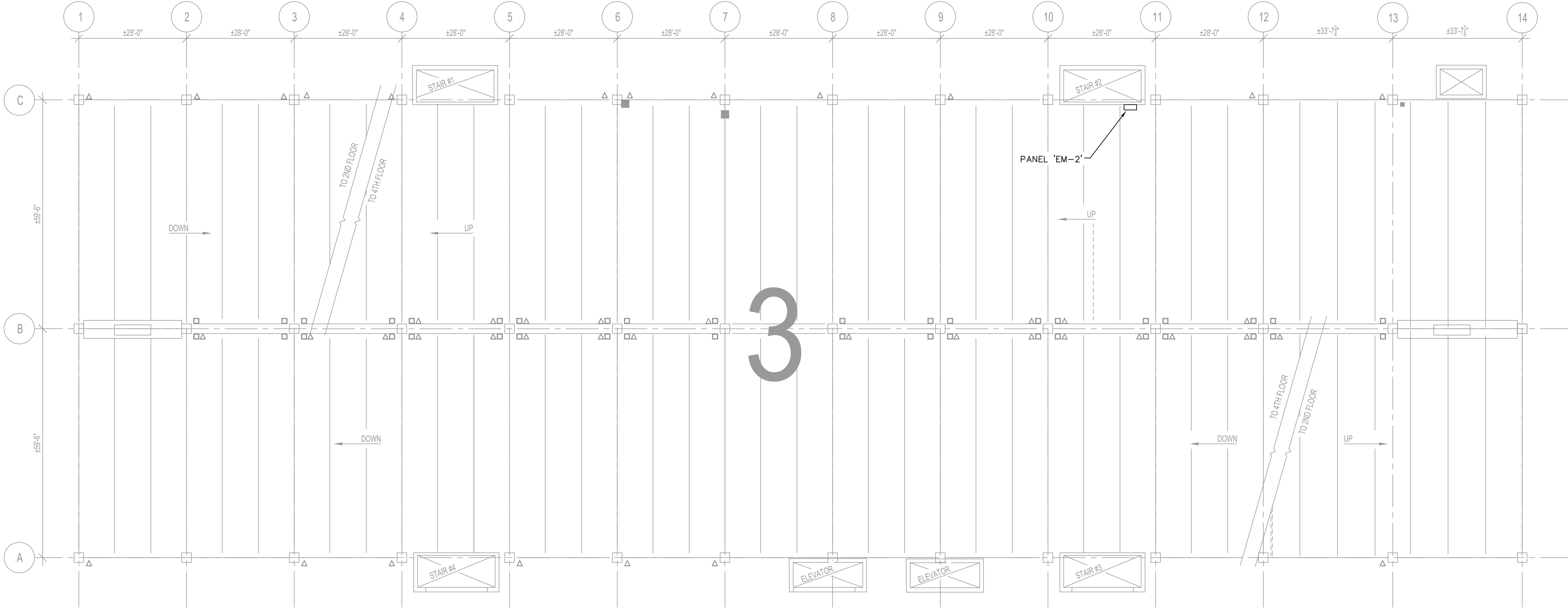
Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs— Fashion District Layout:E-202 August 19, 2024 09:20:19pm K:\VAB-SYSTEMS\Other_Regions\PPA\CAAD\Plansheets\FASHION DISTRICT\E-201.dwg

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Equipment	Voltage	Amperage	KVA	Flush Mounted	Surface Mounted	Floor Mounted
Panel EM-2	277/480V	100A			X	

GENERAL NOTES:

- EQUIPMENT SHOWN ON PLAN IS A ONE-FOR-ONE REPLACEMENT OF DEMOLISHED EQUIPMENT.
- CONTRACTOR SHALL RECONNECT ALL EXISTING CIRCUITS TO NEW EQUIPMENT. PROVIDE UPDATED, TYPED PANEL DIRECTORY.



1	ADDENDUM #4 REVISION	JCS	07/29/24
2	ADDENDUM #7 REVISION	JCS	08/16/24
No.	REVISIONS	DATE	BY



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KHA PROJECT	112359002
DATE	01/31/2024
SCALE	AS SHOWN
DESIGNED BY	JCS
DRAWN BY	LDM
CHECKED BY	LTM

PROPOSED POWER
PLAN - THIRD FLOOR

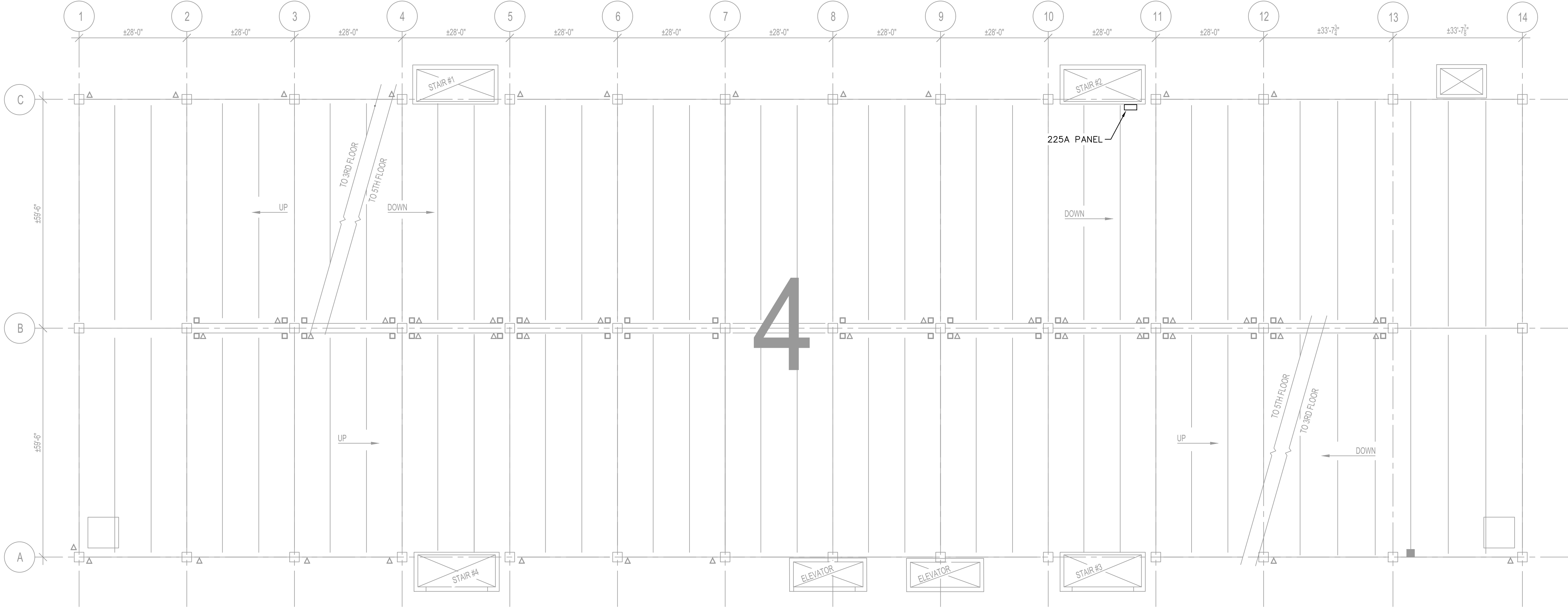
PPA GARAGE MAINTENANCE
REPAIRS - FASHION DISTRICT
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SHEET NUMBER
E-202

Plotted By: Erwin, Westin Sheet Set: PPA Garage Maintenance Repairs— Fashion District Layout: E-203 August 19, 2024 09:20:24am k:\VAB-SYSTEMS\Other_Regions\PPA\CADD_Plansheets\FASHION DISTRICT\E-201.dwg This document, together with the concepts and designs presented herein, is an instrument of service, and its use is limited to the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

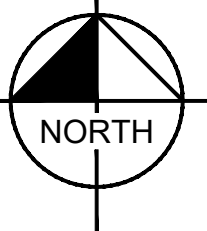
Equipment	Voltage	Amperage	KVA	Flush Mounted	Surface Mounted	Floor Mounted
Unlabeled Panel	277/480V	225A			X	



1
E-203

PROPOSED POWER PLAN - FOURTH FLOOR

1"=15'



GENERAL NOTES:

- EQUIPMENT SHOWN ON PLAN IS A ONE-FOR-ONE REPLACEMENT OF DEMOLISHED EQUIPMENT.
- CONTRACTOR SHALL RECONNECT ALL EXISTING CIRCUITS TO NEW EQUIPMENT. PROVIDE UPDATED, TYPED PANEL DIRECTORY.

1	ADDENDUM #4 REVISION	JCS	07/29/24
2	ADDENDUM #7 REVISION	JCS	08/16/24
No.	REVISIONS	DATE	BY

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KHA PROJECT	112359002
DATE	01/31/2024
SCALE	AS SHOWN
DESIGNED BY	JCS
DRAWN BY	LDM
CHECKED BY	LTM

PROPOSED POWER
PLAN - FOURTH
FLOOR

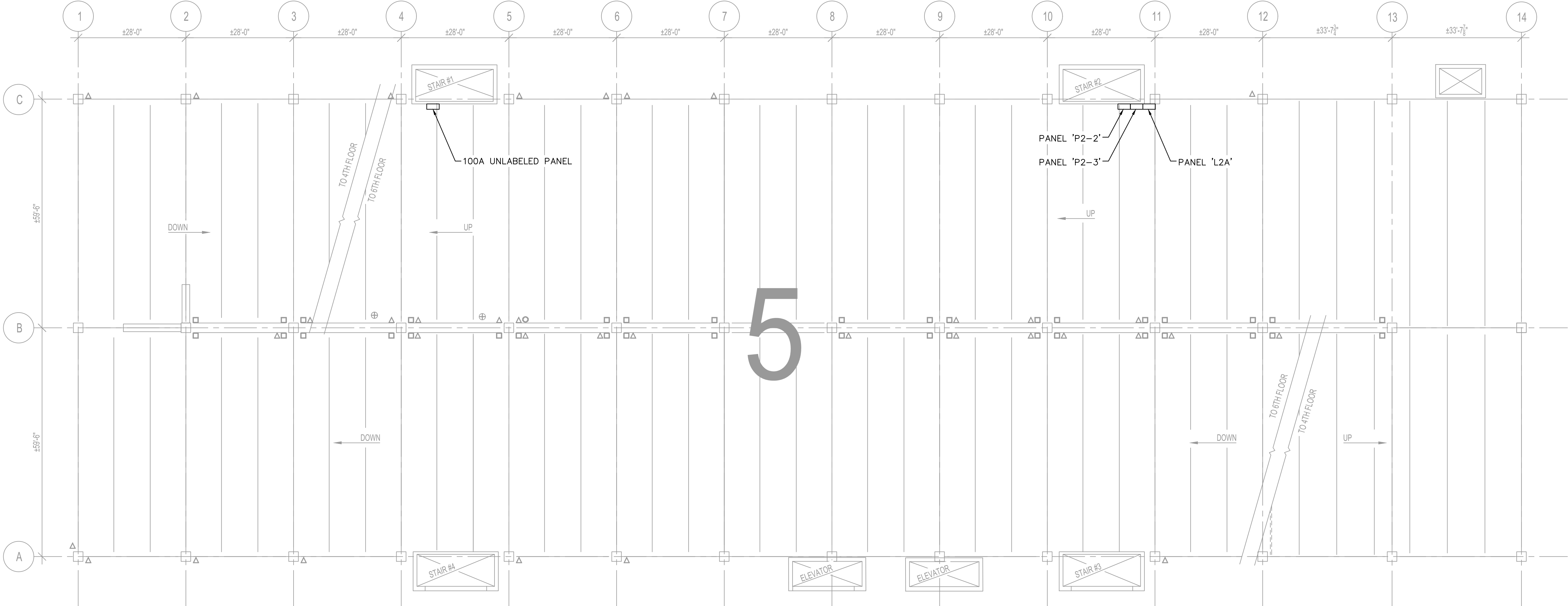
PPA GARAGE MAINTENANCE
REPAIRS - FASHION DISTRICT
PREPARED FOR
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AUTHORITY
PHILADELPHIA
PENNSYLVANIA

SHEET NUMBER
E-203

Plotted By: Erwin, Westin Sheet Set: PPA Garage Maintenance Repairs— Fashion District Layout: E-204 August 19, 2024 09:20:29am k:\VAB-SYSTEMS\Other_Regions\PPA\CADD_Plansheets\FASHION DISTRICT\E-204.dwg This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Equipment	Voltage	Amperage	KVA	Flush Mounted	Surface Mounted	Floor Mounted
Panel L2A	120/208V	100A			X	
Panel P2-2	277/480V	60A			X	
Panel P2-3	277/480V	60A			X	
Unlabeled Panel	120/280V	100A			X	

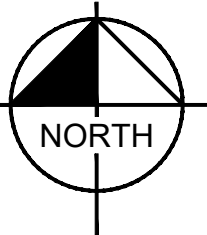
- GENERAL NOTES:
- EQUIPMENT SHOWN ON PLAN IS A ONE-FOR-ONE REPLACEMENT OF DEMOLISHED EQUIPMENT.
 - CONTRACTOR SHALL RECONNECT ALL EXISTING CIRCUITS TO NEW EQUIPMENT. PROVIDE UPDATED, TYPED PANEL DIRECTORY.



1
E-204

PROPOSED POWER PLAN - FIFTH FLOOR

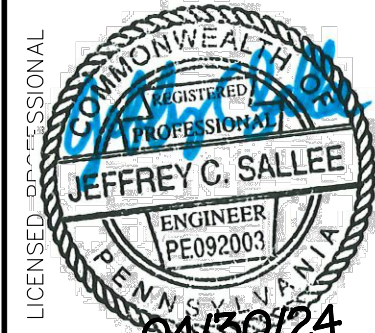
1"=15'



PPA GARAGE MAINTENANCE
REPAIRS - FASHION DISTRICT
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AUTHORITY
PHILADELPHIA
PENNSYLVANIA

PROPOSED POWER
PLAN - FIFTH FLOOR

KHA PROJECT
112359002
DATE
01/31/2024
SCALE AS SHOWN
DESIGNED BY JCS
DRAWN BY LDH
CHECKED BY LTM

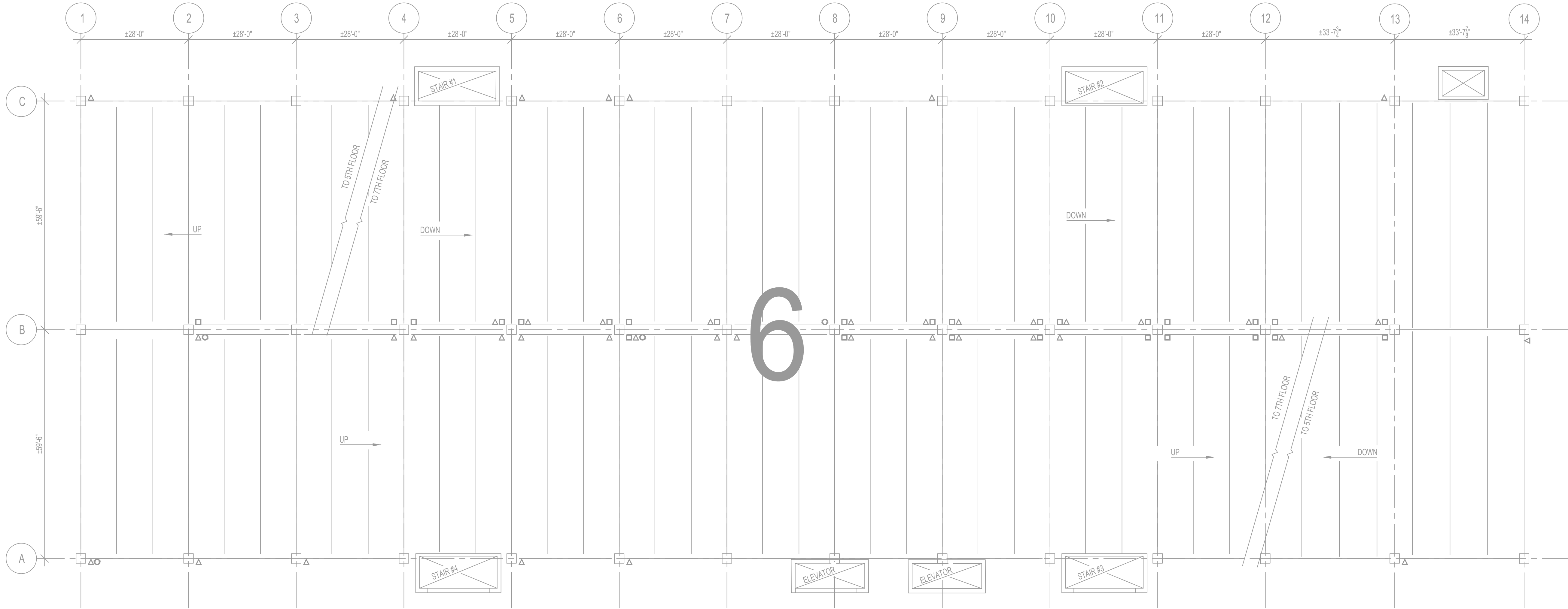


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1	ADDENDUM #4	REVISION	JCS
2	ADDENDUM #7	REVISION	JCS
No.		REVISIONS	BY
			DATE

Plotted By: Erwin, Westin Sheet Set: PPA Garage Maintenance Repairs - Fashion District Layout: E-205 August 19, 2024 09:20:34am k:\VAB-SYSTEMS\Other_Regions\PPA\CADD_Plansheets\FASHION DISTRICT\E-201.dwg

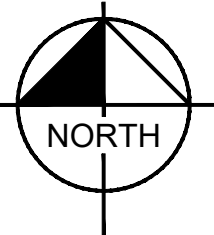
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1
E-205

PROPOSED POWER PLAN - SIXTH FLOOR

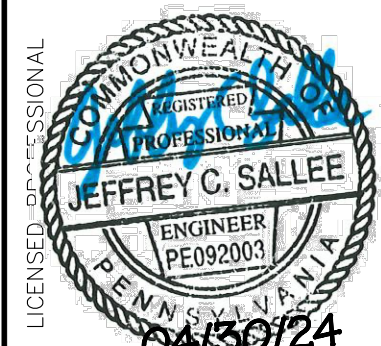
1"=15'



PPA GARAGE MAINTENANCE
REPAIRS - FASHION DISTRICT
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PHILADELPHIA PENNSYLVANIA

PROPOSED POWER
PLAN - SIXTH FLOOR

KHA PROJECT
112359002
DATE
01/31/2024
SCALE AS SHOWN
DESIGNED BY JCS
DRAWN BY LDH
CHECKED BY LTM

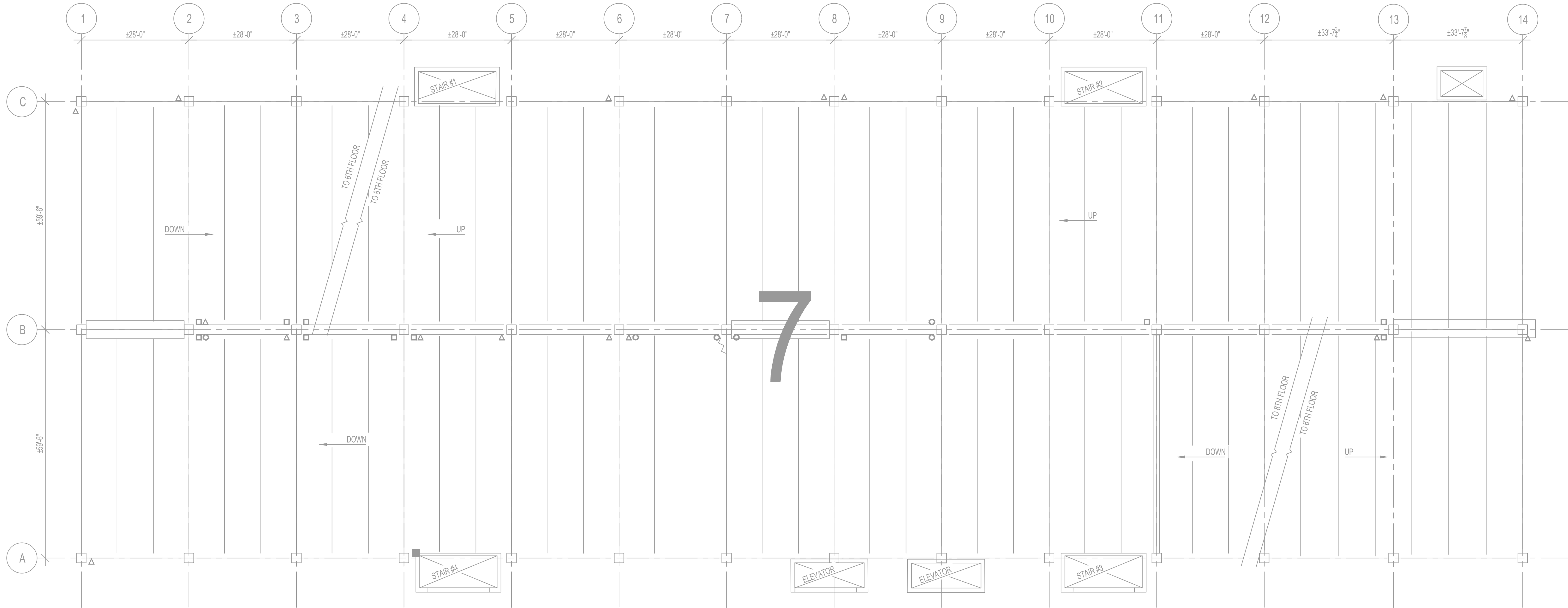


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1	ADDENDUM #4 REVISION	07/29/24	JCS
2	ADDENDUM #7 REVISION	08/16/24	JCS
No.	REVISIONS	DATE	BY

Plotted By: Erwin, Westin Sheet Set: PPA Garage Maintenance Repairs— Fashion District Layout: E-206 August 19, 2024 09:20:39am k:\VAB-SYSTEMS\Other_Regions\PPA\CADD\Plansheets\FASHION DISTRICT\E-201.dwg

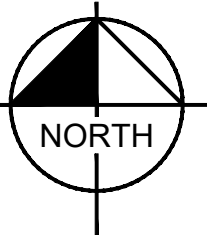
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1
E-206

PROPOSED POWER PLAN - SEVENTH FLOOR

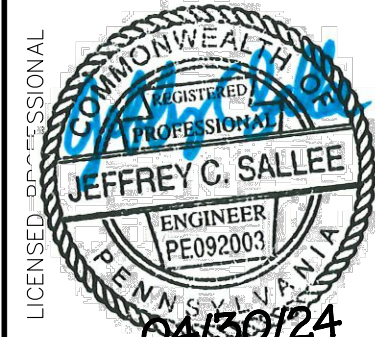
1"=15'



PPA GARAGE MAINTENANCE
REPAIRS - FASHION DISTRICT
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PHILADELPHIA
PENNSYLVANIA

PROPOSED POWER
PLAN - SEVENTH
FLOOR

KHA PROJECT
112359002
DATE
01/31/2024
SCALE AS SHOWN
DESIGNED BY JCS
DRAWN BY LDH
CHECKED BY LTM



Kimley»Horn
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PHILADELPHIA, PA 19102
PHONE: 267-687-0150
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1	ADDENDUM #4 REVISION	07/29/24	JCS
2	ADDENDUM #7 REVISION	08/16/24	JCS
No.	REVISIONS	DATE	BY

Plotted By: Erwin, Westin Sheet Set: PPA Garage Maintenance Repairs-- Fashion District Layout: E-207 August 19, 2024 09:20:44am k:\VAB-SYSTEMS\Other_Regions\PPA\CADD\Plansheets\FASHION DISTRICT\E-201.dwg
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ATS-1 Load Study Results	
Recorder Set Date:	8/31/23
Recorder End Date:	10/2/23
Voltage:	480Y/277V
ATS Amperage:	100A
Peak Demand:	6.516A
Peak Time:	9/14/23, 9:53am

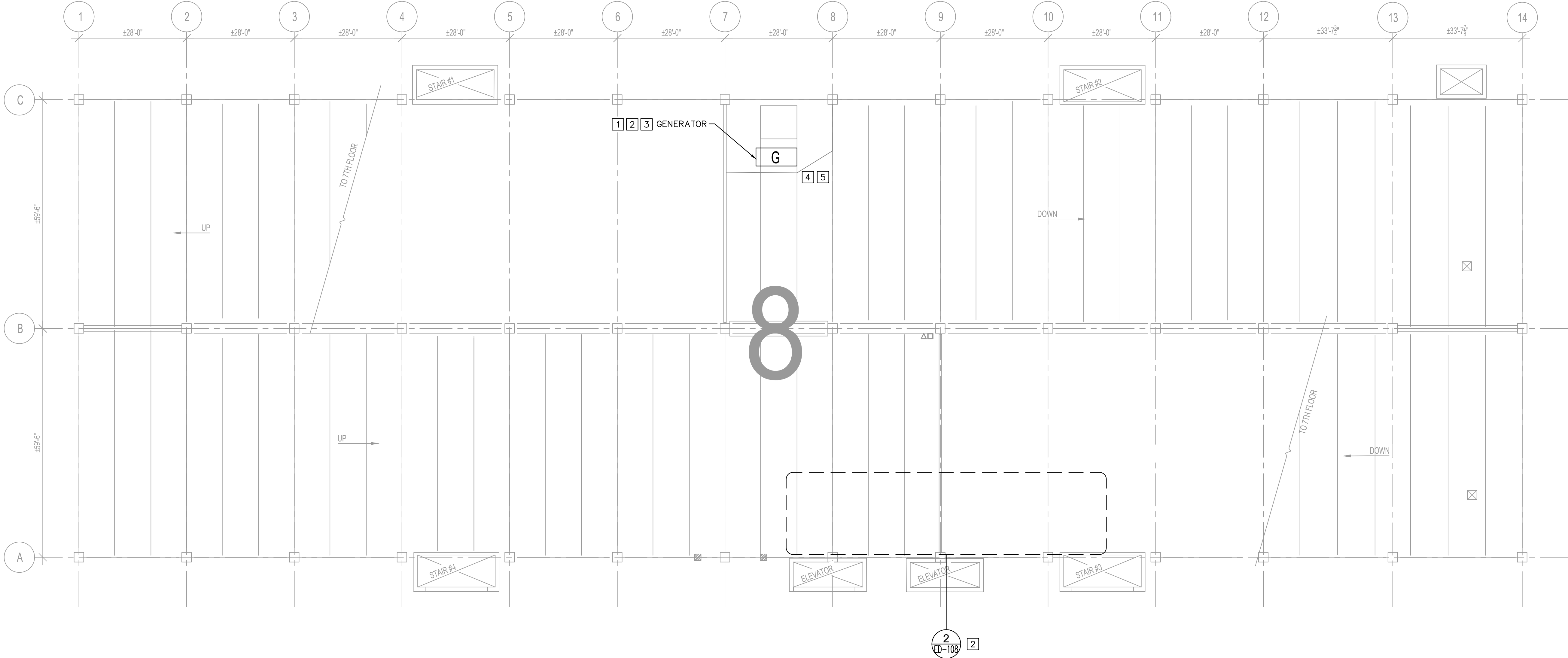
ATS-2 Load Study Results	
Recorder Set Date:	8/31/23
Recorder End Date:	10/2/23
Voltage:	480Y/277V
ATS Amperage:	200A
Peak Demand:	56.540A
Peak Time:	9/06/23, 8:34am

Proposed Generator Sizing			
Sizing based on Existing Generator Load plus PPA request to have all 1st Level tenant space on generator backup.			
Existing Utilization = 63A			52.4 kVA
Level 1 tenant space utilization = 24,000 SF * 21 VA/SF =			504 kVA
		Total	556.4 kVA
Inrush loads (motors) anticipated to be minimal			
Generator Selection: 480Y/277V, 600kW, 750kVA, Diesel Fuel			
Basis of Design: Caterpillar D600 GC or approved equal			

2
E-207

LOAD STUDY RESULTS AND GENERATOR CALCULATIONS

N.T.S.



1
E-207

PROPOSED POWER PLAN - ROOF

1"=15'

2
FD-108

2

NORTH

GENERAL NOTES:

- CONTRACTOR SHALL RECONNECT ALL EXISTING CIRCUITS TO NEW EQUIPMENT.

SHEET NOTES:

- BASIS OF DESIGN FOR GENERATOR IS CATERPILLAR 600KW, 480Y/277V WITH WEATHERPROOF ENCLOSURE OR APPROVED EQUAL.
- CLEARANCE IN THE GARAGE IS ONLY 6'-2". CONTRACTOR SHALL PROVIDE A GENERATOR INSTALLATION PLAN TO PPA FOR APPROVAL PRIOR TO BEGINNING INSTALLATION.
- CONTRACTOR SHALL PROVIDE A TEMPORARY 150KW, 480Y/277V GENERATOR AFTER DEMOLISHING EXISTING GENERATOR AND PRIOR TO INSTALLATION OF PROPOSED GENERATOR.
- CONTRACTOR SHALL ENLARGE FENCED AREA IF REQUIRED TO MAINTAIN AT LEAST 3' CLEARANCE AROUND GENERATOR.
- CONTRACTOR TO PROVIDE CONCRETE PAD FOR GENERATOR. SEE DETAIL (TYPICAL RAISED CURB ON SLOPE) ON SHEET E-601.

1	ADDENDUM #4	REVISION	07/29/24	JCS
2	ADDENDUM #7	REVISION	08/16/24	JCS
No.	REVISIONS		DATE	BY

Plotted By:Erwin, Westin Sheet Set:PPA, Garage Maintenance Repairs-- Fashion District Layout:E-208 August 19, 2024 09:20:54pm K:\VAB_SYSTEMS\Other_Regions\PPA\CADD_Plansheets\FASHION DISTRICT\E-300.dwg

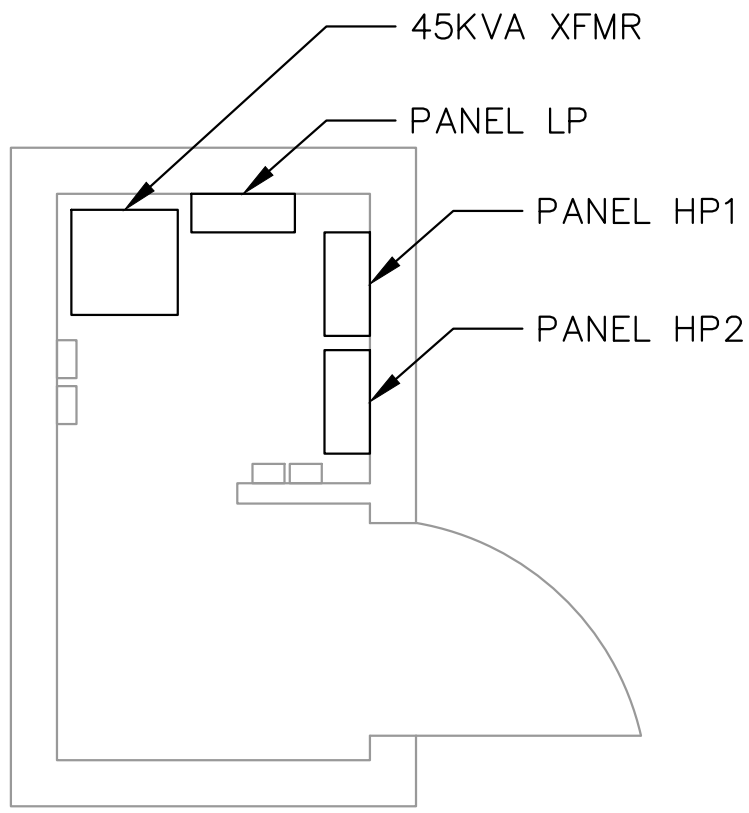
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4

E-208

HALLWAY ELECTRICAL ROOM

N.T.S.

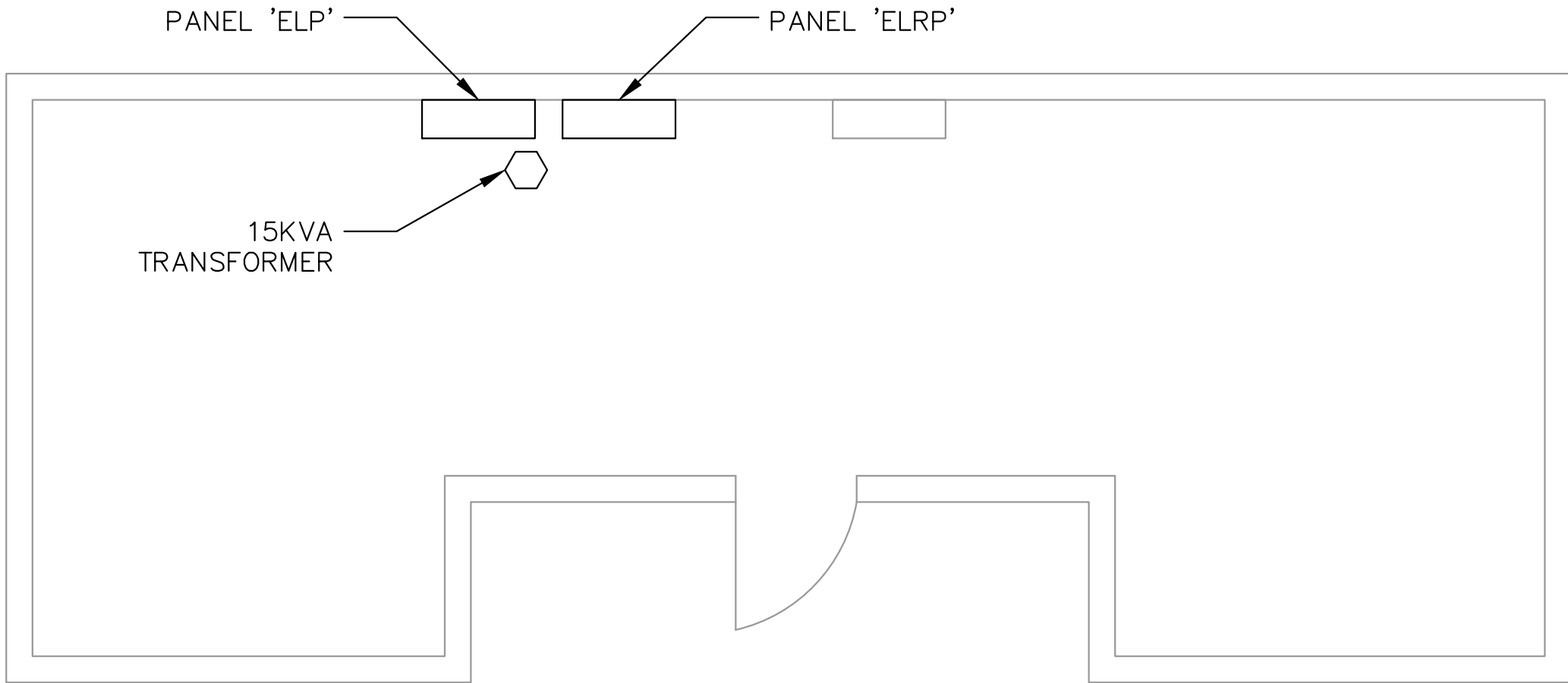


3

E-208

COURTS ELECTRICAL ROOM

N.T.S.



2

E-208

ELEVATOR MACHINE ROOM

N.T.S.

HALLWAY ELECTRICAL ROOM

Equipment	Voltage	Amperage	KVA	Flush Mounted	Surface Mounted	Floor Mounted
Transformer			45KVA			X
Panel LP	120/208V	225A			X	
Panel LHP1	277/480V	-			X	
Panel HP2	277/480V	125A			X	

COURTS ELECTRICAL ROOM

Equipment	Voltage	Amperage	KVA	Flush Mounted	Surface Mounted	Floor Mounted	Suspended
Transformer			30KVA				X
HP	277/480	225A			X		

ELEVATOR MACHINE ROOM

Equipment	Voltage	Amperage	KVA	Flush Mounted	Surface Mounted	Floor Mounted
Transformer			15KVA			X
Panel ELP	225A	277/480V			X	
Panel ELRP	40A	120/208V			X	

MAIN ELECTRICAL ROOM

Equipment	Voltage	Amperage	KVA	Flush Mounted	Surface Mounted	Floor Mounted
Transformer			45KVA			X
Transformer			75KVA			X
Transformer			15KVA		X	
Panel EM1	277/480V	100A			X	
Panel EMA	120/280V	100A			X	
ATS-1	277/480V	100A			X	
ATS-3	277/480V	400A			X	

MAIN ELECTRICAL ROOM

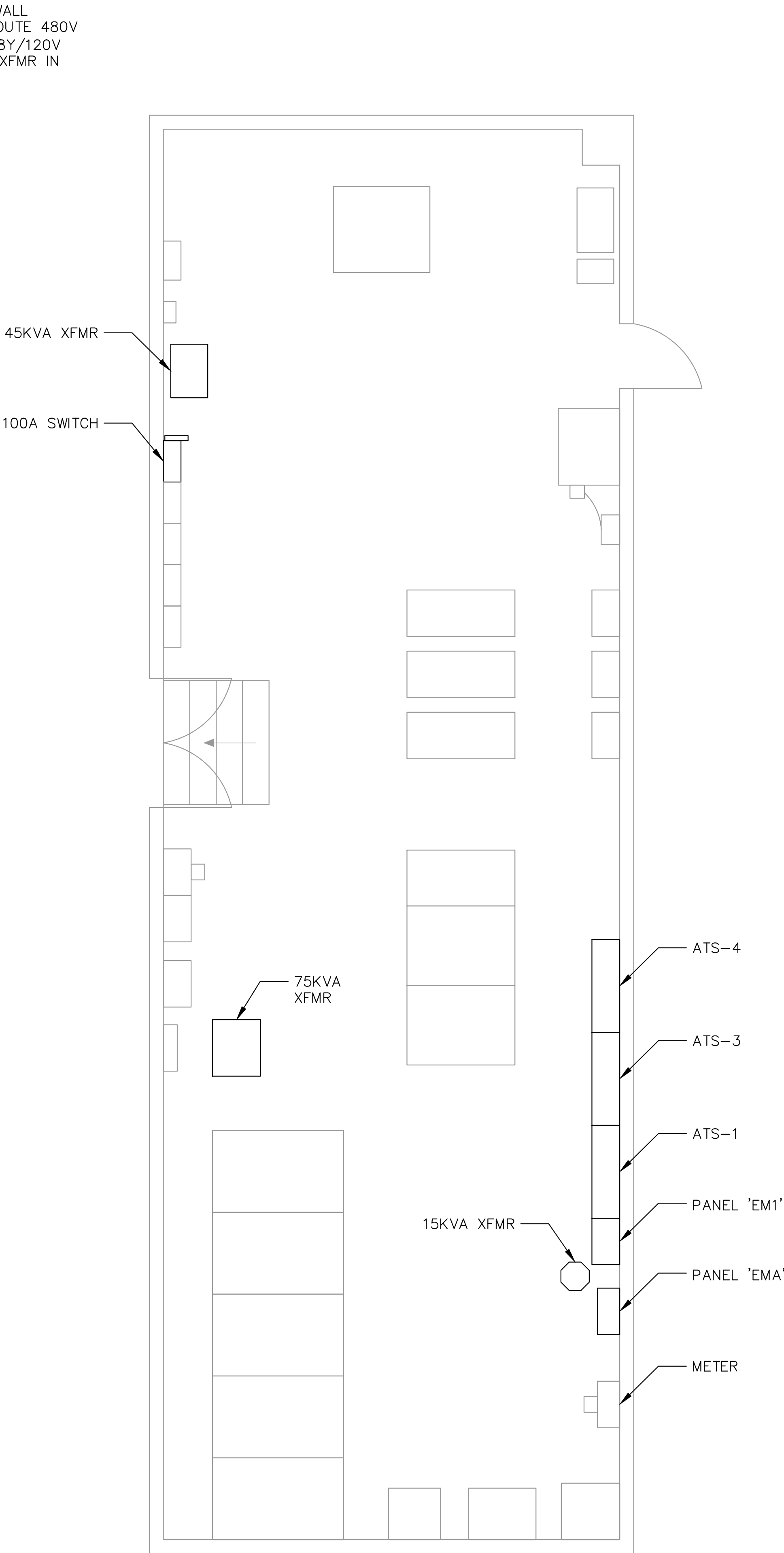
Equipment	Voltage	Amperage	KVA	Flush Mounted	Surface Mounted	Floor Mounted
Transformer			45KVA			X
Transformer			75KVA			X
Transformer			15KVA		X	
Panel EM1	277/480V	100A			X	
Panel EMA	120/280V	100A			X	
ATS-1	277/480V	100A			X	
ATS-3	277/480V	400A			X	
ATS-4	277/480V	400A			X	

1

E-208

MAIN ELECTRICAL ROOM

N.T.S.



PPA GARAGE MAINTENANCE
REPAIRS - FASHION DISTRICT
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY

PHILADELPHIA
PENNSYLVANIA

PROPOSED POWER
PLAN - ENLARGED
ELECTIRCAL ROOMS

KHA PROJECT
112359002

DATE
01/31/2024

SCALE AS SHOWN

DESIGNED BY JCS

DRAWN BY LDH

CHECKED BY LTM

ADDENDUM #4 REVISION
07/29/24 JCS

ADDENDUM #7 REVISION
08/16/24 JCS

REVISIONS

NO. DATE BY

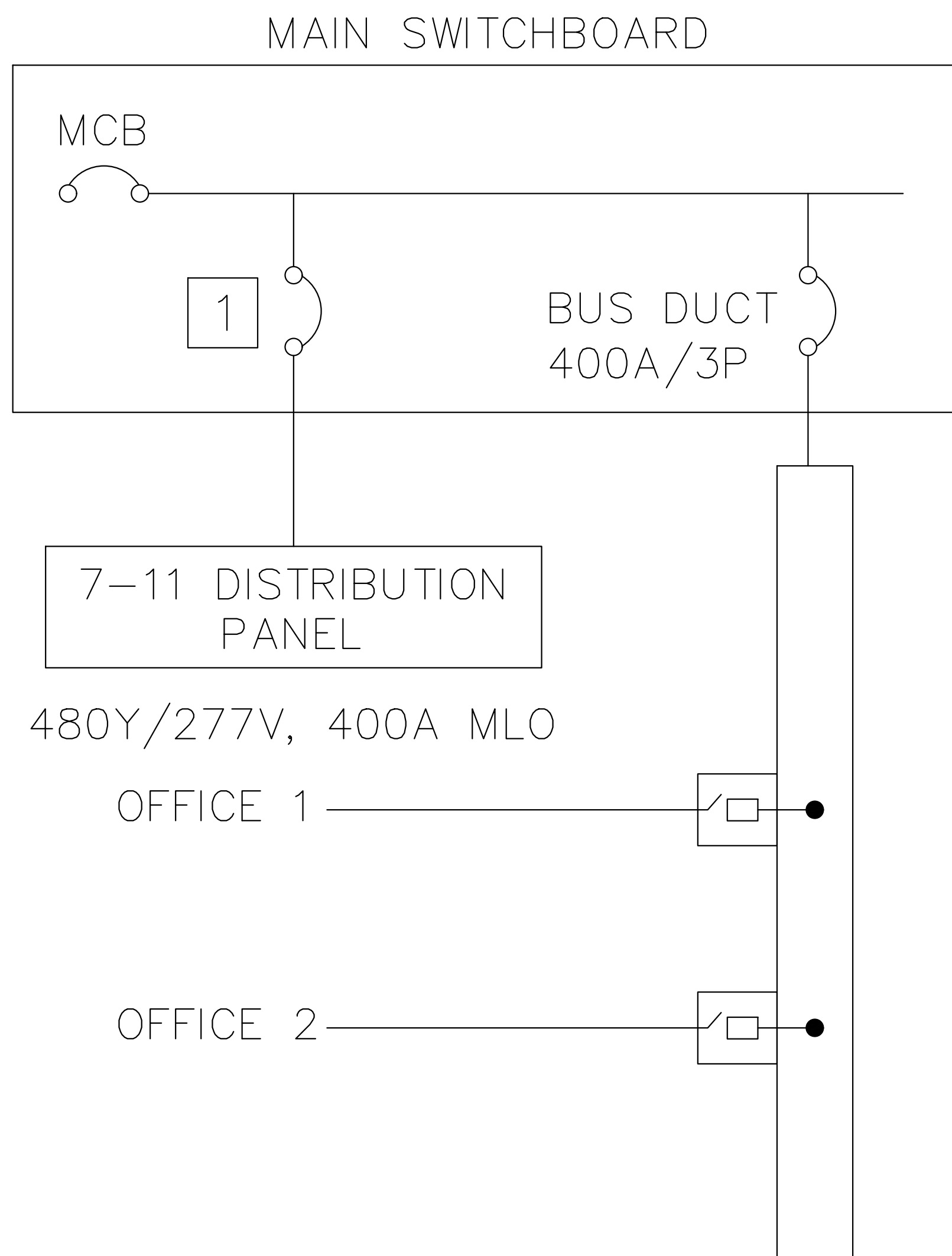
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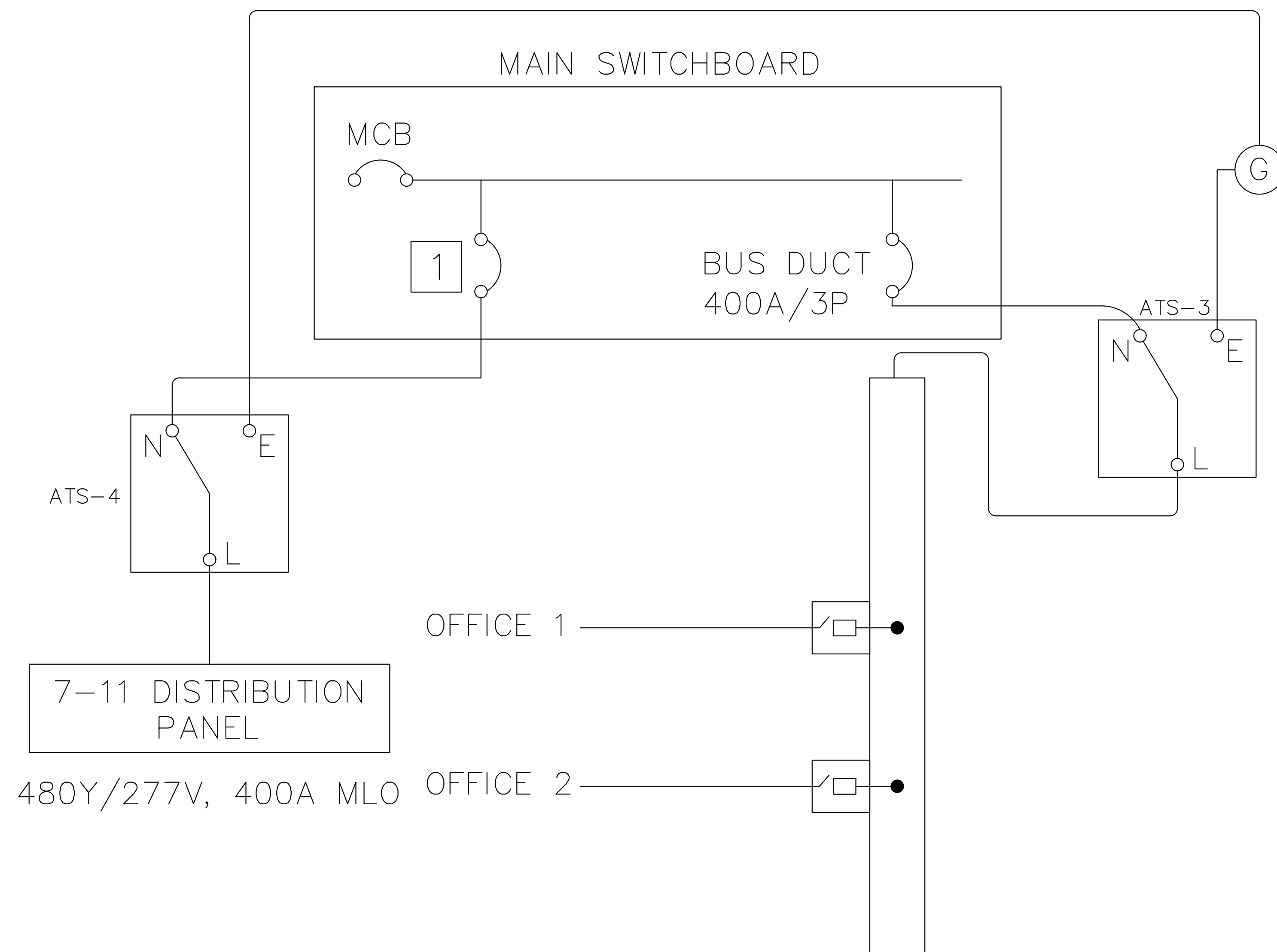
PROFESSIONAL
ENGINEER
PENNSYLVANIA
04350124

JEFFREY C. SALLEE
ENGINEER
PE092803

EXISTING PARTIAL ONE-LINE DIAGRAM



PROPOSED PARTIAL ONE-LINE DIAGRAM



SHEET NOTES:

- 1 CONTRACTOR SHALL VERIFY CIRCUIT BREAKER NAME AND SIZE ON MAIN SWITCHBOARD. SIZE ATS-4 FOR CIRCUIT BREAKER AMPERAGE OR 400A, WHICHEVER IS SMALLER.

PPA GARAGE MAINTENANCE REPAIRS - FASHION DISTRICT PREPARED FOR PHILADELPHIA PARKING AUTHORITY PHILADELPHIA PENNSYLVANIA	SHEET NUMBER E-600	EXISTING ONE-LINE DIAGRAM			KHA PROJECT 112359002 DATE 08/07/2024 SCALE AS SHOWN DESIGNED BY JCS DRAWN BY LDH CHECKED BY LTM	 0436724	LICENSED PROFESSIONAL ENGINEER MECHANICAL PENNSYLVANIA	 © 2024 KIMLEY-HORN AND ASSOCIATES, INC. 50 SOUTH 16TH ST, TWO LIBERTY PLACE SUITE 3300 PHILADELPHIA, PA 19102 PHONE: 267-687-0150 WWW.KIMLEY-HORN.COM	1 ADDENDUM #4 REVISION 2 ADDENDUM #7 REVISION		07/29/24 JCS 08/16/24 JCS		
No.										REVISIONS		DATE	BY

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs- Fashion District Layout:E-602 August 19, 2024 09:21:13am K:\VAB_SYSTEMS\Other_Regions\PPA\CADD\Plansheets\FASHION_DISTRICT\E-402.dwg



NOTES:

- ## NOTES

- NOTE:**

SHEET NUMBER
E-601

Plotted By:Erwin, Westin Sheet Set:PPA, Garage Maintenance Repairs-- Fashion District Layout:E-602 August 19, 2024 09:21:23am K:\VAB-SYSTEMS\Other_Regions\PPA\CADD\Plansheets\FASHION DISTRICT\E-602 Panel Schedules.dwg
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GENERAL NOTE:
CONTRACTOR SHALL VERIFY PANEL SCHEDULE
ON PLANS WITH PANELS ON SITE. NOTIFY THE
ENGINEER OF ANY DISCREPANCIES.

2

1

Existing Panel LP1 Location: Existing Electrical Room Volts: 208Y/120V Phase: 3 Wire: 4 Hertz: 60																
MLO Main AIC: N/A Branch AIC: 10,000 ENCL. (NEMA): 1 MTG: Surface																
100 Amp Frame , Ground Bar, Locking Cover, Panel Card.																
Description of Load Served	Breaker		Wire	A/Phase			CKT No.	CKT No.	A/Phase			Wire	Breaker		Description of Load Served	
	Amp	Pole		A	B	C			A	B	C		Amp	Pole		
EXISTING	20	1	EXIST	EX			1	2	EX			EXIST	20	1	EXISTING	
EXISTING	20	1	EXIST		EX		3	4		EX		EXIST	20	1	EXISTING	
EXISTING	30	2	EXIST			EX	5	6				EXIST	20	2	EXISTING	
			EXIST	EX			7	8	EX			EXIST				
EXISTING	20	1	EXIST		EX		9	10		EX		EXIST	20	1	EXISTING	
EXIT GATE	20	1	EXIST			EX	11	12			EX	EXIST	20	1	EXISTING	
HOWD DRY	20	2	EXIST	EX			13	14	EX			EXIST	20	1	EXISTING	
			EXIST		EX		15	16		EX		EXIST				
AC OFFICE	20	2	EXIST			EX	17	18			EX	EXIST	20	1	JOCKEY PUMP	
			EXIST	EX			19	20	EX			EXIST				
CU3	30	2	EXIST		EX		21	22		EX		EXIST	20	1	EXISTING	
			EXIST			EX	23	24			EX	EXIST				
EXISTING	20	2	EXIST		EX		25	26			EX	EXIST	20	2	AC	
SPARE	20	1	EXIST		EX	EX	27	28		EX		EXIST	20	2	AC2	
							29	30								

1

E-602

PANEL LP1 - GROUND FLOOR

N.T.S.

4

E-602

PANEL HP-1 - GROUND FLOOR

N.T.S.

Panel Schedule																
Existing Panel P1-A Location: Existing Electrical Room Volts: 480Y/277V Phase: 3 Wire: 4 Hertz: 60																
MLO Main AIC: N/A Branch AIC: 10,000 ENCL. (NEMA): 1 MTG: Surface																
100 Amp Frame , Ground Bar, Locking Cover, Panel Card.																
Description of Load Served	Breaker		Wire	A/Phase			CKT No.	CKT No.	A/Phase			Wire	Breaker		Description of Load Served	
	Amp	Pole		A	B	C			A	B	C		Amp	Pole		
FIRE PUMP	20	3	EXIST	EX			1	2	EX			EXIST	20	1	MENS ROOM HEAT	
					EX		3	4		EX		EXIST			HEAT COMP	
LEFT TURN SIGN 1ST EXIT	20	1	EXIST	EX			5	6				EXIST	20	1	OFFICE HEAT	
HEATER JANITOR CLOSET	20	1	EXIST		EX		7	8	EX			EXIST	20	1	HEAT SFC OFFICE	
HEAT LADIES ROOM	20	1	EXIST			EX	9	10			EX	EXIST	20	1	SPARE	
LIGHTS IN OFFICE	20	1	EXIST	EX			11	12		EX		EXIST	20	1	SPARE	
SFC OFFICE LITES COMP. RM	20	1	EXIST		EX		13	14			EX	EXIST	20	1	SPARE	
SPARE	20	1	EXIST			EX	15	16			EX	EXIST	20	1	SPARE	
SPARE	20	1	EXIST	EX			17	18				EXIST	20	1	SPARE	
SPARE	20	1	EXIST				19	20				EXIST	20	3	SPARE	
SPARE		1					21	22								
SPARE		1					23	24								

2

E-602

PANEL P1-A - GROUND FLOOR

N.T.S.

Panel Schedule																
Existing Panel HP Location: Existing Server Room Volts: 480Y/277V Phase: 3 Wire: 4 Hertz: 60																
MLO Main AIC: N/A Branch AIC: 18,000 ENCL. (NEMA): 1 MTG: Surface																
225 Amp Frame , Ground Bar, Locking Cover, Panel Card.																
Description of Load Served	Breaker		Wire	A/Phase			CKT No.	CKT No.	A/Phase			Wire	Breaker		Description of Load Served	
	Amp	Pole		A	B	C			A	B	C		Amp	Pole		
SPACE		1					1	2	EX						SPACE	
AC		3	EXIST		EX		3	4		EX		EXIST	20	2	HOT WATER HEATER	
			EXIST			EX	5	6				EXIST				
AC		3	EXIST	EX			7	8					20	3	NC	
			EXIST		EX		9	10								
AC + HEAT	30	3	EXIST			EX	11	12					20	3	NC	
			EXIST	EX			13	14								
AC + HEAT	30	3	EXIST		EX		15	16					20	3	NC	
			EXIST	EX			17	18								
NC		3	EXIST				19	20					20	3	NC	
			EXIST	EX			21	22								
TRANSFORMER		3	EXIST		EX		23	24					20	3	NC	
			EXIST			EX	25	26								
SPACE		1	EXIST				27	28					20	1	32	
			EXIST			EX	29	30		EX		EXIST				
SPACE		1	EXIST				31	32				EXIST	20	1	34	
SPACE		1	EXIST				33	34				EXIST	20	1	36	
SPACE		1	EXIST				35	36				EXIST	20	1	38	
SPACE		1	EXIST				25	26		EX		EXIST	20	1	40	
SPACE		1	EXIST				27	28		EX		EXIST	20	1	SPACE	
SPACE		1	EXIST				29	30			EX	EXIST	20	1	SPACE	
SPACE		1	EXIST				31	32				EXIST	20	1	SPACE	

3

E-602

PANEL HP - GROUND FLOOR

N.T.S.

Panel Schedule																
Existing Panel HP-1 Location: Existing SERVER Room Volts: 480Y/277V Phase: 3 Wire: 4 Hertz: 60																
MLO Main AIC: N/A Branch AIC: 14,000 ENCL. (NEMA): 1 MTG: Surface																
225 Amp Frame , Ground Bar, Locking Cover, Panel Card.																
Description of Load Served	Breaker		Wire	A/Phase			CKT No.	CKT No.	A/Phase			Wire	Breaker		Description of Load Served	
	Amp	Pole		A	B	C			A	B	C		Amp	Pole		
A/C COND. UNIT LEVEL 2	30	3	EXIST	EX			1	2	EX			EXIST	-	1	SPACE	
			EXIST		EX		3	4		EX		EXIST	-	1	SPACE	
			EXIST			EX	5	6			EX		EXIST	-	1	SPACE
A/C COND. UNIT LEVEL 2	30	3	EXIST	EX			7	8				EXIST				
			EXIST		EX		9	10				EXIST	60	3	SPARE	
			EXIST			EX	11	12				EXIST				
SPARE	30	3	EXIST				13	14				EXIST				
			EXIST				15	16				EXIST	60	3	SPARE	
			EXIST				17	18				EXIST				
SPARE	20	1	EXIST				19	20				EXIST	20	1	SPARE	
HEATER	20	1	EXIST		EX		21	22		EX		EXIST	20	1	HEATER	
HEATER	20	1	EXIST			EX	23	24				EXIST	20	1	SPARE	
SPARE	20	1	EXIST				25	26				EXIST	20	1	SPARE	
SPARE	20	1	EXIST				27	28				EXIST				
SPARE	20	1	EXIST				29	30				EXIST	30	2	SPARE	

Plotted By:Erwin, Westin Sheet Set:PPA, Garage Maintenance Repairs— Fashion District L0Yout:E-603 August 19, 2024 09:21:28am K:\VAB-SYSTEMS\Other_Regions\PPA\OAD\Plansheets\FASHION DISTRICT\E-602 Panel Schedules.dwg
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ENGINEER OF ANY DISCREPANCIES.

2

1

Panel Schedule															
Existing 100A Unlabeled Panel Location: 5th Floor Volts:208Y/120 Phase:3 Wire: 4 Hertz: 60															
MLO Main AIC: N/A Branch AIC: 10,000 ENCL (NEMA): 1 MTG: Surface															
100 Amp Frame , Ground Bar, Locking Cover, Panel Card:															
Description of Load Served	Breaker		Wire	A/Phase			CKT No.	CKT No.	A/Phase			Wire	Breaker		Description of Load Served
	Amp	Pole		A	B	C			A	B	C		Amp	Pole	
EXISTING	20	1	EXIST	EX			1	2	EX			EXIST	20	1	EXISTING
EXISTING	20	1	EXIST		EX		3	4		EX		EXIST	20	1	EXISTING
EXISTING	20	1	EXIST			EX	5	6			EX	EXIST	20	1	EXISTING
EXISTING	20	1	EXIST	EX			7	8	EX			EXIST	20	1	EXISTING
EXISTING	20	1	EXIST		EX		9	10		EX		EXIST	20	1	EXISTING
SPACE							11	12							SPACE
SPACE							13	14							SPACE
SPACE							15	16							SPACE
SPACE							17	18							SPACE

1
E-603

100A UNLABELED PANEL - FLOOR 5

N.T.S.

Panel Schedule															
Existing Panel P2-2 Location: 5th Floor Volts:480Y/277V Phase: 3 Wire: 4 Hertz: 60															
MLO Main AIC: N/A Branch AIC: 10,000 ENCL (NEMA): 1 MTG: Surface															
60 Amp Frame , Ground Bar, Locking Cover, Panel Card:															
Description of Load Served	Breaker		Wire	A/Phase			CKT No.	CKT No.	A/Phase			Wire	Breaker		Description of Load Served
	Amp	Pole		A	B	C			A	B	C		Amp	Pole	
5th FLOOR LIGHTING - WEST	20	1	EXIST	EX			1	2	EX			EXIST	20	1	6TH FLOOR LIGHTING - WEST
6TH OUT	20	1	EXIST		EX		3	4					20	1	SPARE
SPARE	20	1					5	6					20	1	SPARE
SPARE	20	1					7	8					20	1	SPARE
SPARE	20	1					9	10					20	1	SPARE
7TH FLOOR WEST	20	1	EXIST			EX	11	12					20	1	SPARE
SPARE	20	1					13	14					20	1	SPARE
SPARE	20	1					15	16					20	1	SPARE
SPARE	20	1					17	18					20	1	SPARE
SPACE	20	1					19	20					20	1	SPACE
SPACE	20	1					21	22					20	1	SPACE

2
E-603

PANEL P2-2 - FLOOR 5

N.T.S.

Panel Schedule															
Existing Panel P2-3 Location: 5th Floor Volts:480Y/277V Phase: 3 Wire: 4 Hertz: 60															
MLO Main AIC: N/A Branch AIC: 10,000 ENCL. (NEMA): 1 MTG: Surface															
60 Amp Frame , Ground Bar, Locking Cover, Panel Card:															
Description of Load Served	Breaker		Wire	A/Phase			CKT No.	CKT No.	A/Phase			Wire	Breaker		Description of Load Served
	Amp	Pole		A	B	C			A	B	C		Amp	Pole	
5TH AND 6TH FLOOR LIGHTING - EAST	20	1	EXIST	EX			1	2	EX			EXIST	20	1	6TH FLOOR LIGHTING - EAST
SPARE	20	1					3	4					20	1	SPARE
7TH FLOOR LIGHTING - EAST	20	1	EXIST			EX	5	6					20	1	SPARE
SPARE	20	1					7	8					20	1	SPARE
SPARE	20	1					9	10					20	1	SPARE
7TH FLOOR LIGHTING - WEST	20	1	EXIST			EX	11	12					20	1	SPARE
SPARE	20	1					13	14					20	1	SPARE
SPARE	20	1					15	16					20	1	SPARE
SPARE	20	1					17	18					20	1	SPARE
SPACE							19	20							SPACE
SPACE							21	22							SPACE

3
E-603

PANEL P2-3 - FLOOR 5

N.T.S.

Panel Schedule															
Existing Panel L2A Location: 5th Floor Volts:208Y/120V Phase: 3 Wire: 4 Hertz: 60															
MLO Main AIC: N/A Branch AIC: 10,000 ENCL. (NEMA): 1 MTG: Surface															
100 Amp Frame , Ground Bar, Locking Cover, Panel Card:															
Description of Load Served	Breaker		Wire	A/Phase			CKT No.	CKT No.	A/Phase			Wire	Breaker		Description of Load Served
	Amp	Pole		A	B	C			A	B	C		Amp	Pole	
S	20	1		EX			1	2					20	1	SPARE
SPARE	20	1					3	4					20	1	SPARE
B	20	1				EX	5	6			EX		20	1	SOUTH EAST
H	20	1		EX			7	8					20	1	SPARE
SPARE	20	1					9	10					20	1	SPARE
SPARE	20	1					11	12					20	1	SPARE
SPARE	20	1					13	14					20	1	SPARE
TEMP W/ LOOP	20	1			EX		15	16					20	1	SPARE
SPACE	20	1											20	1	SPACE

4
E-603

PANEL L2A - FLOOR 5

N.T.S.

Panel Schedule															
Panel LP Location: Hallway Electric Room Volts: 208Y/120V Phase: 3 Wire: 4 Hertz: 60															
150A MCB Main AIC: N/A Branch AIC: 10,000 ENCL (NEMA): 1 MTG: Surface															
125 Amp Frame , Ground Bar, Locking Cover, Panel Card.															
Description of Load Served	Breaker		Wire	A/Phase			CKT No.	CKT No.	A/Phase			Wire	Breaker		Description of Load Served
	Amp	Pole		A	B	C			A	B	C		Amp	Pole	
EXISTING	20	1	EX	EX			1	2	EX			EX	20	1	EXISTING
EXISTING	20	1	EX		EX		3	4		EX		EX	20	1	EXISTING
EXISTING	20	1	EX			EX	5	6			EX	EX	20	1	EXISTING
EXISTING	20	1	EX	EX			7	8	EX			EX	20	1	EXISTING
EXISTING	20	1	EX		EX		9	10		EX		EX	20	1	EXISTING
EXISTING	20	1	EX			EX	11	12			EX	EX	20	1	EXISTING
EXISTING	20	1	EX	EX			13	14	EX			EX	20	1	EXISTING
EXISTING	20	1	EX		EX		15	16		EX		EX	20	1	EXISTING
EXISTING	20	1	EX			EX	17	18			EX	EX	20	1	EXISTING
EXISTING	20	1	EX	EX			19	20	EX			EX	20	1	EXISTING
EXISTING	20	1	EX		EX		21	22		EX		EX	20	1	EXISTING
EXISTING	20	1	EX			EX	23	24			EX	EX	20	1	EXISTING
EXISTING	20	1	EX	EX			25	26	EX			EX	20	1	EXISTING
EXISTING	20	2	EX		EX		27	28		EX		EX	20	1	EXISTING
					EX		29	30			EX	20	1	EXISTING	
EXISTING	20	1	EX	EX			31	32	EX			EX	20	1	EXISTING
EXISTING	20	1	EX		EX		33	34		EX		EX	20	1	EXISTING
EXISTING	20	1	EX			EX	35	36			EX	EX	20	1	EXISTING
EXISTING	20	1	EX	EX			37	38	EX			EX	20	1	EXISTING
EXISTING	20	1	EX		EX		39	40		EX		EX	20	1	EXISTING
EXISTING	15	1	EX			EX	41	42			EX	EX	20	1	EXISTING

5
E-603

PANEL LP - HALLWAY ELECTRIC ROOM

N.T.S.

Panel Schedule																
Panel HP1 Location: Hallway Electric Room Volts: 480Y/277V Phase: 3 Wire: 4 Hertz: 60																
MLO Main AIC: N/A Branch AIC: 14,000 ENCL (NEMA): 1 MTG: Surface																
125 Amp Frame , Ground Bar, Locking Cover, Panel Card:																
Description of Load Served	Breaker		Wire	A/Phase			CKT No.	CKT No.	A/Phase			Wire	Breaker		Description of Load Served	
	Amp	Pole		A	B	C			A	B	C		Amp	Pole		
SPACE		1					1	2						1	SPACE	
HEAT PUMP 12	20	3	EX		EX		3	4		EX			EX	20	3	HEAT PUMP 13
					EX		5	6			EX					
				EX			7	8	EX							
HEAT PUMP 14	20	3	EX		EX		9	10		EX			EX	20	3	HEAT PUMP 15
					EX	EX	11	12		EX						
				EX			13	14	EX							
HEAT PUMP 16	20	3	EX				15	16		EX			EX	20	3	HEAT PUMP 17
						EX	17	18		EX						
				EX			19	20	EX							
HEAT PUMP 18	20	3	EX		EX		21	22		EX			EX	20	3	HEAT PUMP 19
						EX	23	24		EX						
				EX			25	26	EX							
HEAT PUMP 20	20	3	EX		EX		27	28		EX			EX	20	3	HEAT PUMP 21
						EX	29	30		EX						
				EX			31	32	EX							
PANEL HP2	100	3	EX		EX		33	34		EX			EX	60	3	PANEL LP
						EX	35	36		EX						
				EX			37	38	EX							
SPARE	20	1	EX				39	40				EX	20	1	SPARE	
SPARE	20	1	EX				41	42				EX	20	1	SPARE	
SPARE	20	1	EX				43	44				EX	20	1	SPARE	

$$\triangle 2$$

1

1
E-604

N.T.S.

$$\begin{array}{r} 2 \\ -604 \end{array}$$

N.T.S.

3
E-604

N.T.S.

4
E-604

N.T.S.

5
E-604

N.T.S.

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PANEL SCHEDULES

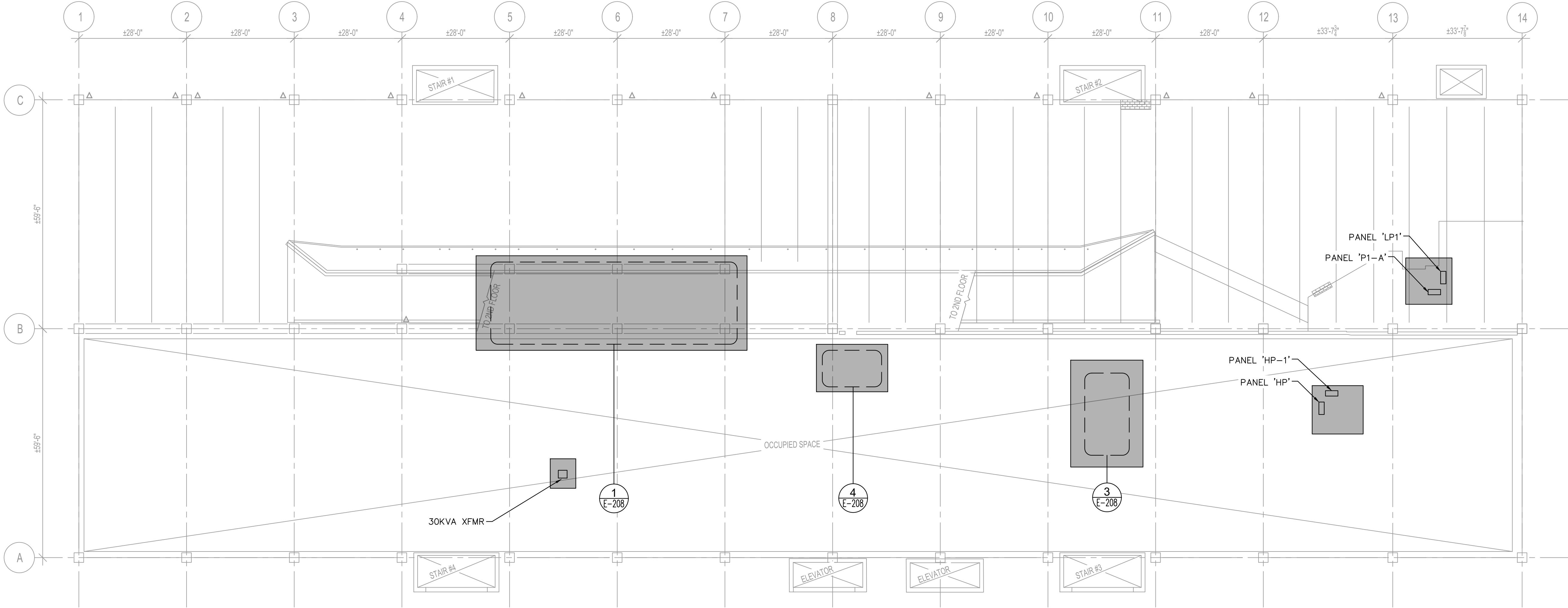
PENNsylvania

SHEET NUMBER
E-604

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs-- Fashion District Layout:E-700 August 19, 2024 09:21:45am K:\VAB-SYSTEMS\Other_Regions\PA\CAAD\Plansheets\FASHION DISTRICT\PHASE WORK.dwg

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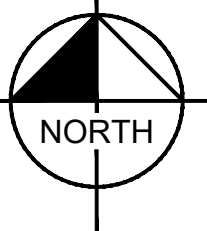
WORK AREAS



1
E-200

PHASING POWER PLAN - GROUND FLOOR

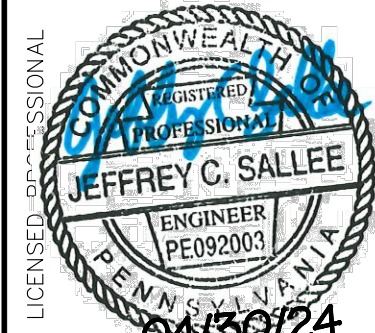
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PPA GARAGE MAINTENANCE
REPAIRS - FASHION DISTRICT
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PHILADELPHIA
PENNSYLVANIA

PHASING POWER
PLAN - GROUND
FLOOR

KHA PROJECT
112359002
DATE
01/31/2024
SCALE AS SHOWN
DESIGNED BY JCS
DRAWN BY LDH
CHECKED BY LTM

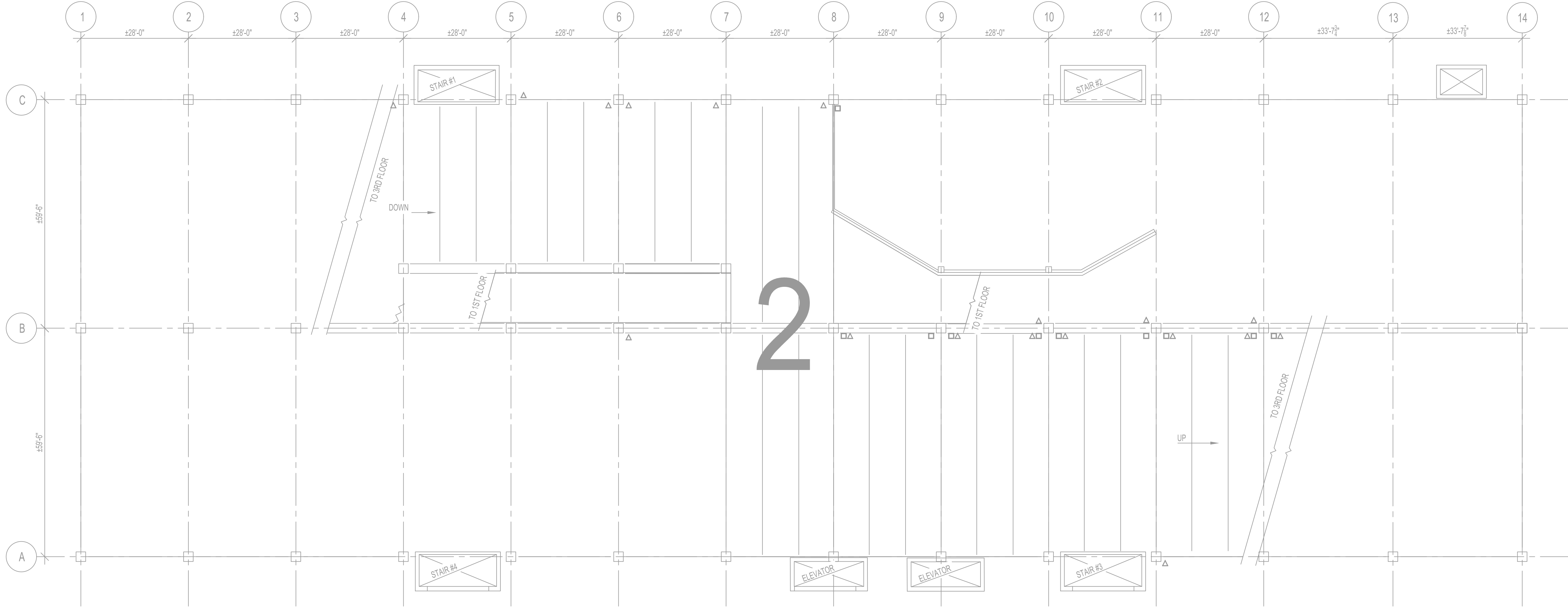


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1	ADDENDUM #4 REVISION	07/29/24	JCS
2	ADDENDUM #7 REVISION	08/16/24	JCS
No.	REVISIONS	DATE	BY

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs-- Fashion District Layout:E-701 August 19, 2024 09:21:48pm K:\VAB-SYSTEMS\Other_Regions\PPA\CADD\Plansheets\FASHION DISTRICT\PHASE WORK.dwg

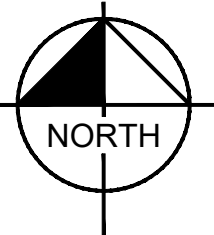
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1
E-201

PHASING POWER PLAN - SECOND FLOOR

1"=15'



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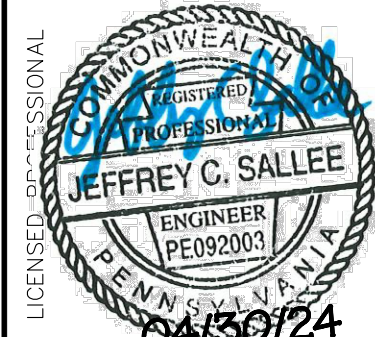
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PHASING POWER
PLAN - SECOND
FLOOR

KHA PROJECT
112359002
DATE
01/31/2024
SCALE AS SHOWN
DESIGNED BY JCS
DRAWN BY LDH
CHECKED BY LTM

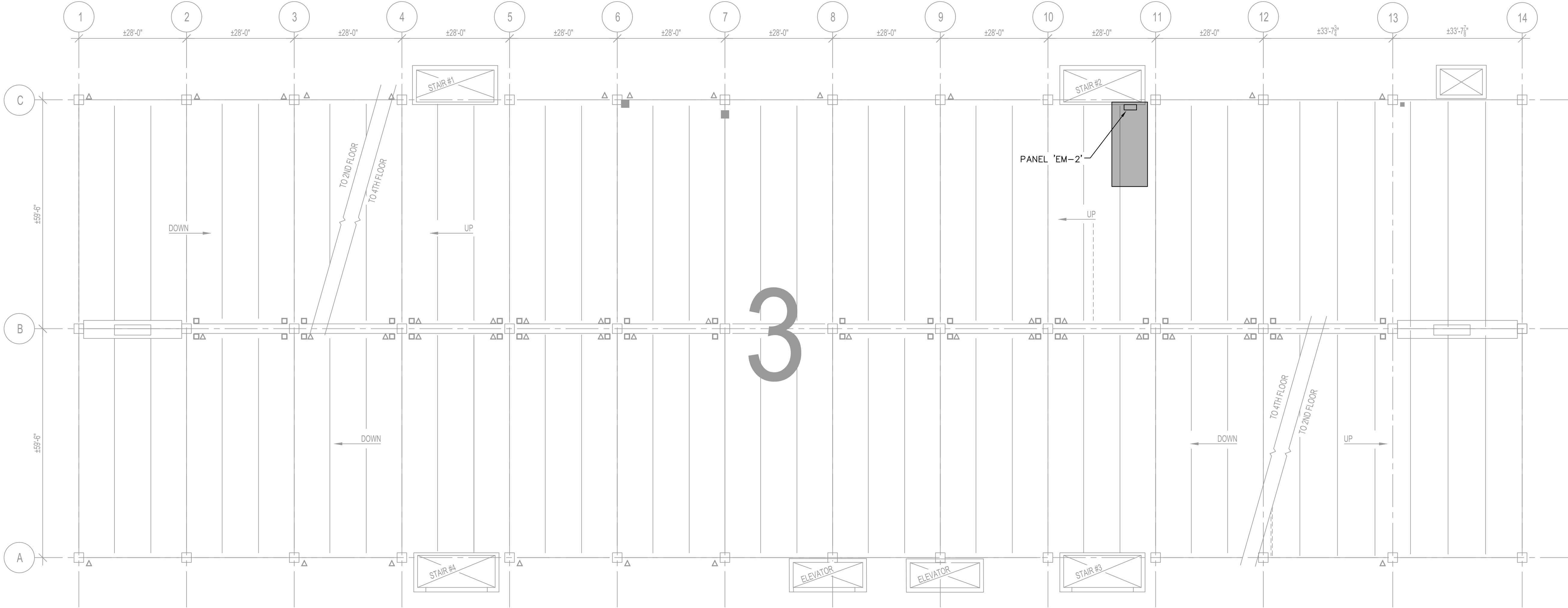


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2	ADDENDUM #7 REVISION	08/16/24	JCS
No.	REVISIONS	DATE	BY

Plotted By: Erwin, Westin Sheet Set: PPA Garage Maintenance Repairs— Fashion District Layout: E-702 August 19, 2024 09:21:53am K:\VAB-SYSTEMS\Other_Regional\PPA\CAD\Plansheets\FASHION DISTRICT\PHASE WORK.dwg
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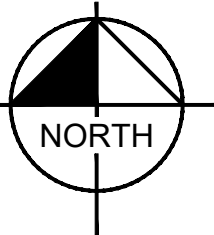
WORK AREAS



1
E-702

PHASING POWER PLAN - THIRD FLOOR

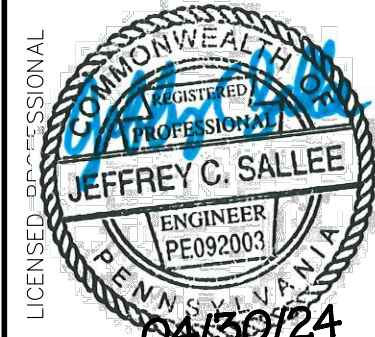
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PHASING POWER
PLAN - THIRD FLOOR

KHA PROJECT
112359002
DATE
01/31/2024
SCALE AS SHOWN
DESIGNED BY JCS
DRAWN BY LDH
CHECKED BY LTM

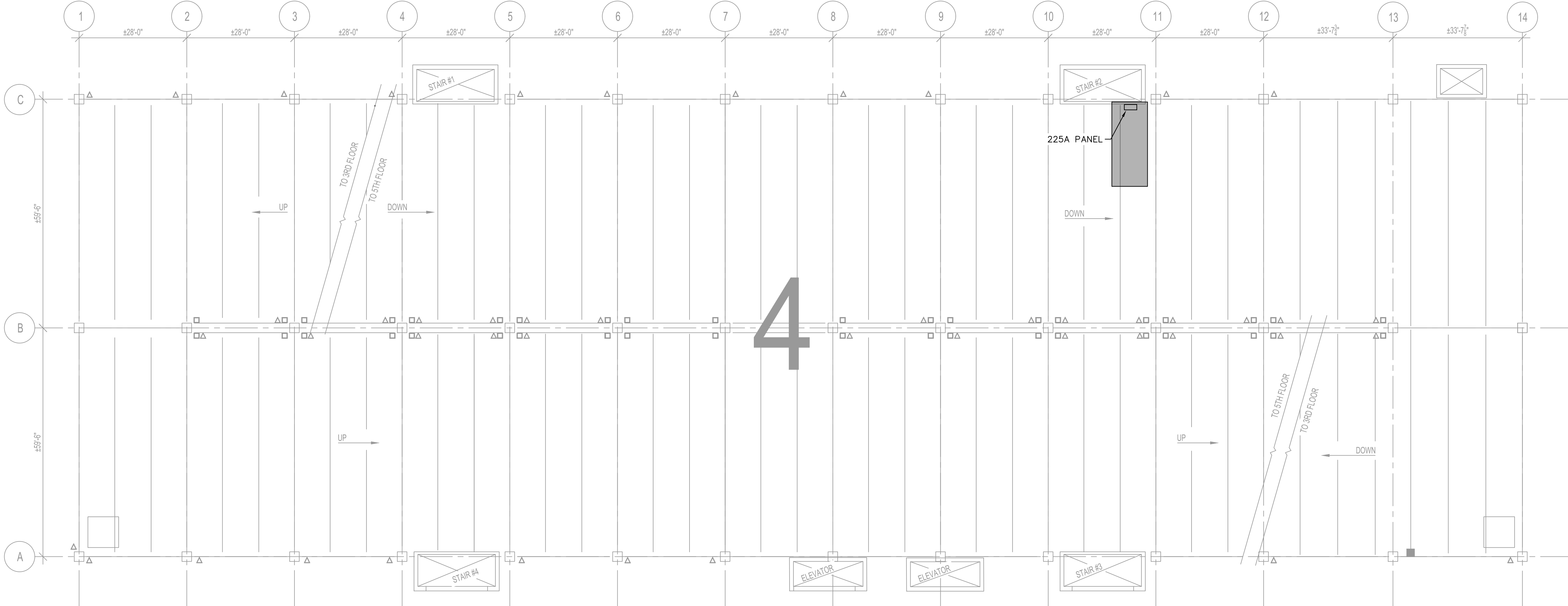


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2	ADDENDUM #7 REVISION	08/16/24	JCS
No.	REVISIONS	DATE	BY

Plotted By: Erwin, Westin Sheet Set: PPA Garage Maintenance Repairs— Fashion District Layout: E-703 August 19, 2024 09:21:59am K:\VAB-SYSTEMS\Other_Regions\PA\CAAD\Plansheets\FASHION DISTRICT\PHASE WORK.dwg
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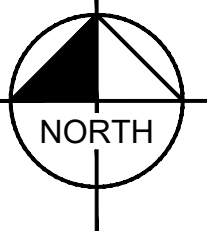
WORK AREAS



1
E-703

PHASING POWER PLAN - FOURTH FLOOR

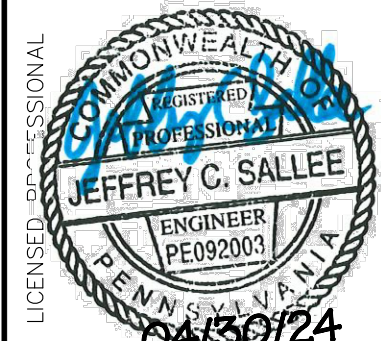
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PHASING POWER
PLAN - FOURTH
FLOOR

KHA PROJECT	112359002
DATE	01/31/2024
SCALE	AS SHOWN
DESIGNED BY	JCS
DRAWN BY	LDM
CHECKED BY	LTM



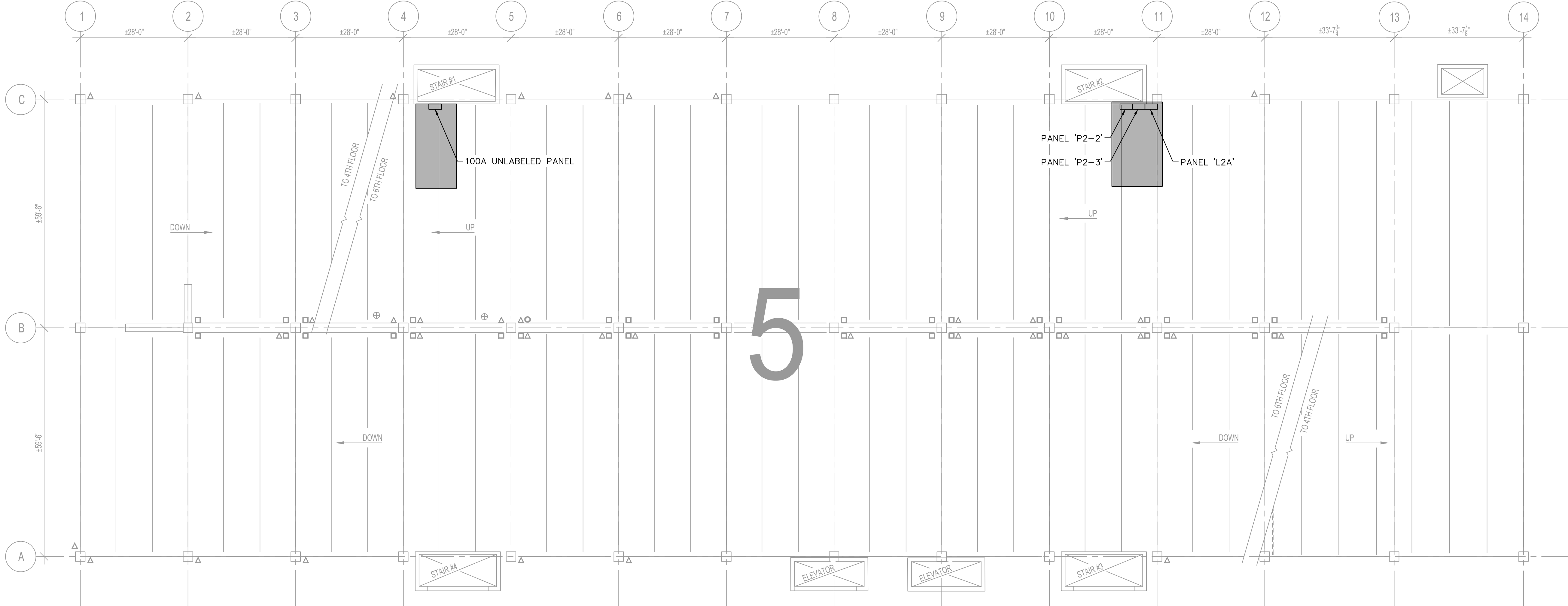
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2	ADDENDUM #7 REVISION	08/16/24	JCS
No.	REVISIONS	DATE	BY

Plotted By: Erwin, Westin Sheet Set: PPA Garage Maintenance Repairs— Fashion District Layout: E-704 August 19, 2024 09:22:04am k:\VAB-SYSTEMS\Other_Regions\PPA\CADD_Plansheets\FASHION DISTRICT\PHASE WORK.dwg
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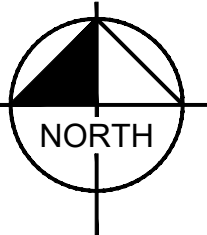
WORK AREAS



1
E-204

PHASING POWER PLAN - FIFTH FLOOR

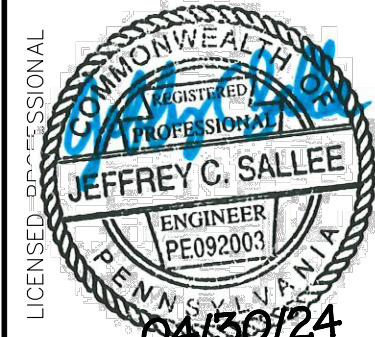
1"=15'



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PHASING POWER
PLAN - FIFTH FLOOR

KHA PROJECT
112359002
DATE
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SCALE AS SHOWN
DESIGNED BY JCS
DRAWN BY LDH
CHECKED BY LTM

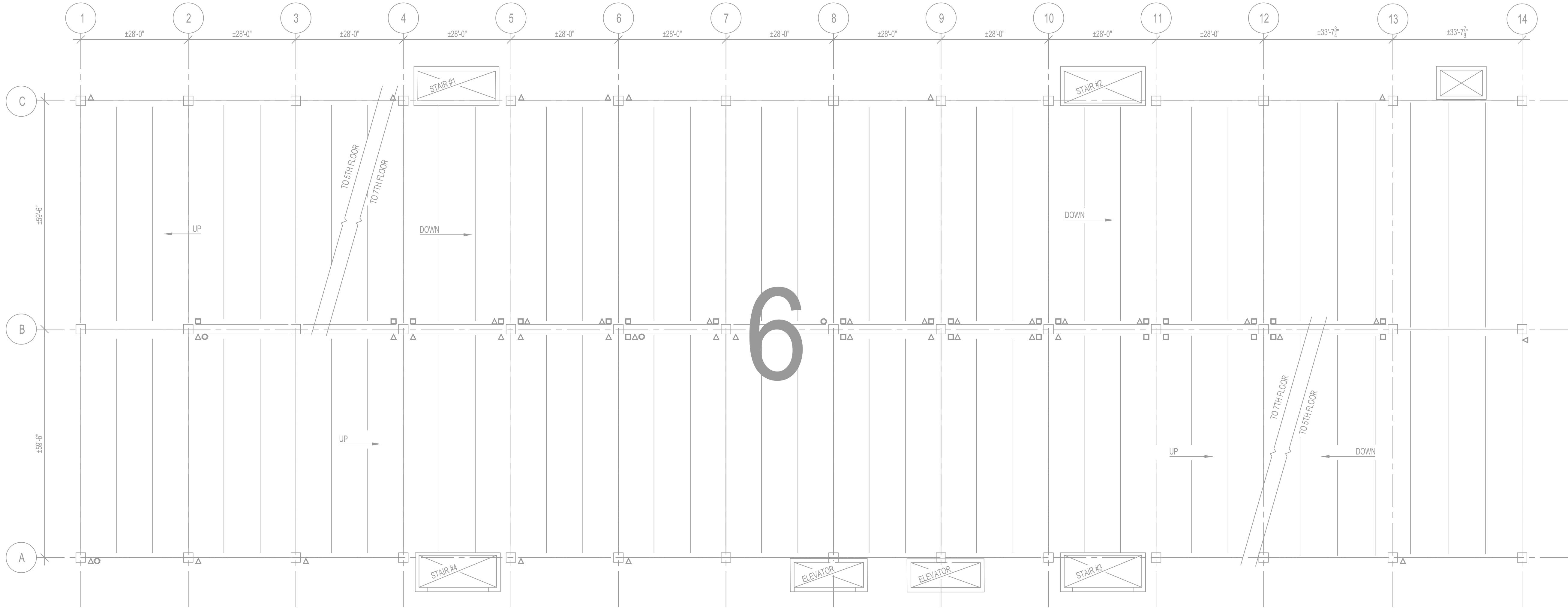


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No.	REVISIONS	DATE	BY

Plotted By: Erwin, Westin Sheet Set: PPA Garage Maintenance Repairs - Fashion District Layout: E-705 August 19, 2024 09:22:09am k:\VAB-SYSTEMS\Other_Regions\PPA\CADD_Plansheets\FASHION DISTRICT\PHASE WORK.dwg

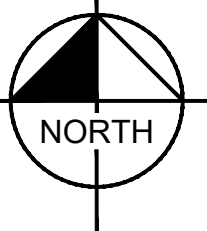
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1
E-205

PHASING POWER PLAN - SIXTH FLOOR

1"=15'



NO WORK IDENTIFIED ON THIS LEVEL

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PHASING POWER
PLAN - SIXTH FLOOR

KHA PROJECT
112359002
DATE
01/31/2024
SCALE AS SHOWN
DESIGNED BY JCS
DRAWN BY LDH
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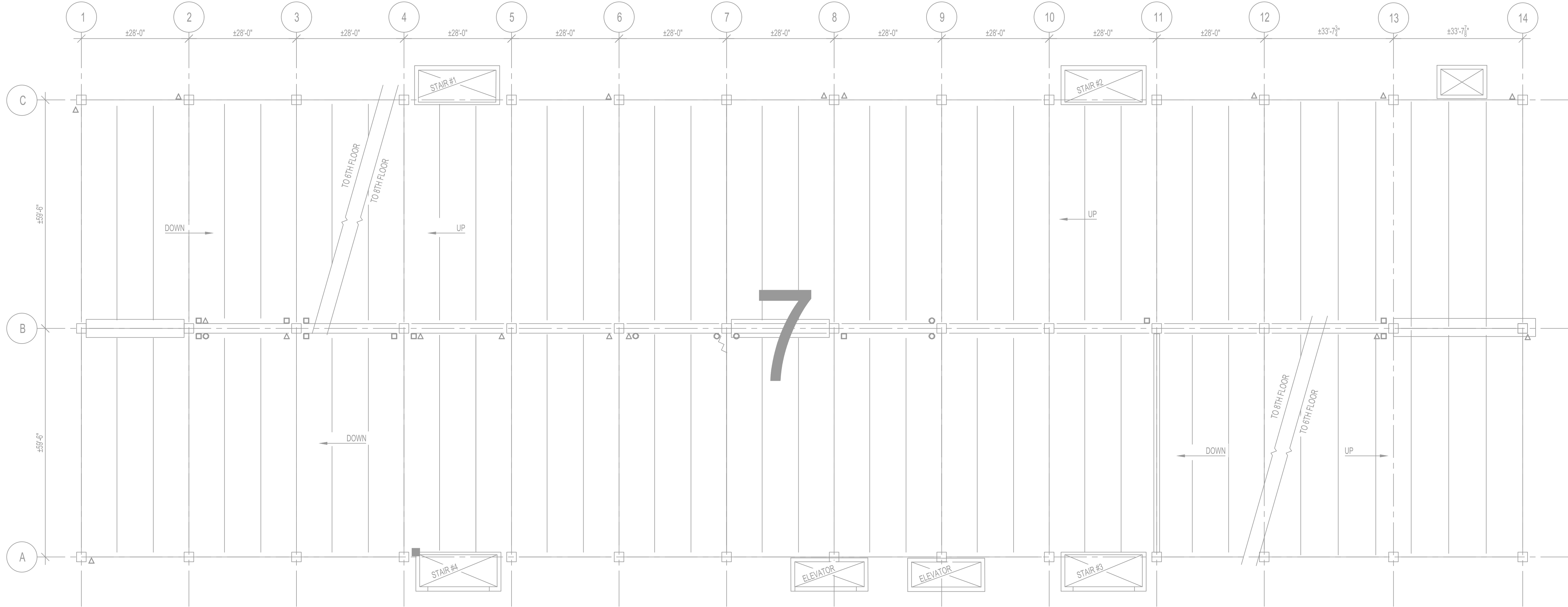


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2	ADDENDUM #7 REVISION	08/16/24	JCS
No.	REVISIONS	DATE	BY

Plotted By: Erwin, Westin Sheet Set: PPA Garage Maintenance Repairs - Fashion District Layout: E-706 August 19, 2024 09:22:14am K:\VAB-SYSTEMS\Other_Regional\PPA\GADD\Plansheets\FASHION DISTRICT\PHASE WORK.dwg

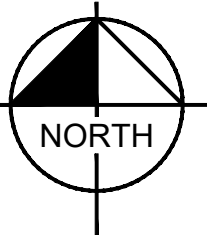
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1
E-206

PHASING POWER PLAN - SEVENTH FLOOR

1"=15'



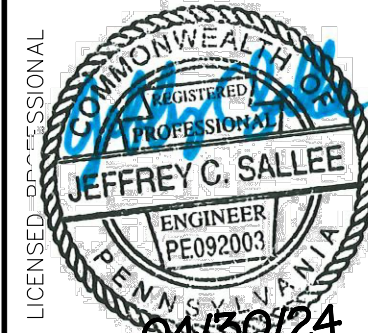
NO WORK IDENTIFIED ON THIS LEVEL

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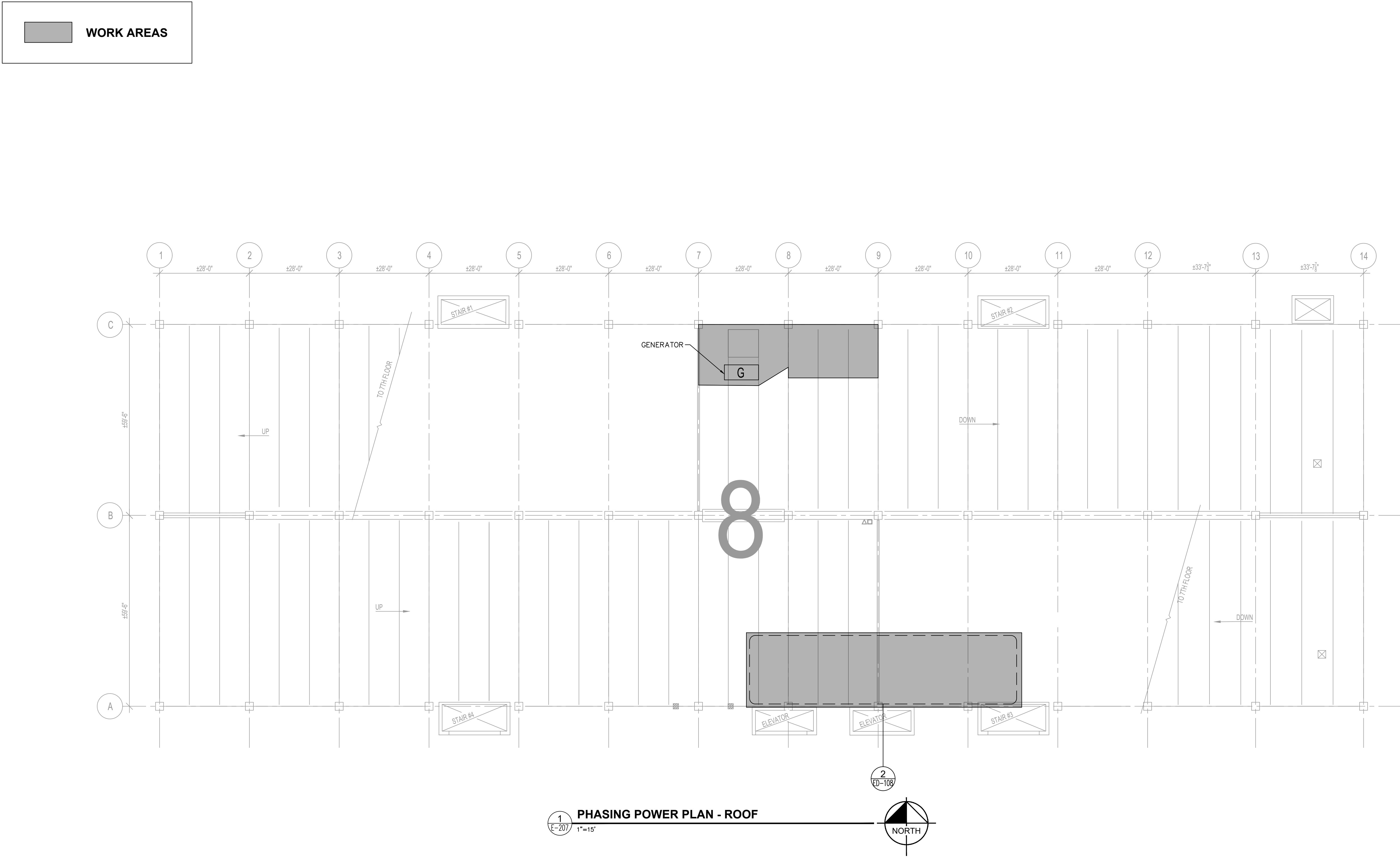
PHASING POWER
PLAN - SEVENTH
FLOOR

KHA PROJECT
112359002
DATE
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SCALE AS SHOWN
DESIGNED BY JCS
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Bid No. 24-17 Addendum #7 - Appendix B

Revised Olde City Drawings

Plotted By:Erwin, Westin Sheet Set:PPFA Garage Maintenance Repairs - Old City Layout: E-002 August 19, 2024 08:12:08am K:\VAB-SYSTEMS\Other_Regions\PPFA\CADD\PlanSheets\OLD_CITY\E-002.dwg This document, together with the concepts and designs presented herein, is an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. THE GENERAL PROVISIONS OF THE CONTRACT INCLUDING GENERAL AND SPECIAL CONDITIONS AND GENERAL REQUIREMENTS SHALL APPLY TO ALL WORK UNDER THIS SECTION.

1.02 REQUIREMENTS OF REGULATORY AGENCIES AND STANDARDS

A. EQUIPMENT, FIXTURES, MATERIAL AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT, THE SERVING UTILITY COMPANIES, THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, LIFE SAFETY CODE, OCCUPATIONAL SAFETY AND HEALTH ACT, AND APPLICABLE NATIONAL, STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.

B. ALL EQUIPMENT SHALL BE EQUAL TO OR EXCEED THE MINIMUM REQUIREMENTS OF NEMA, IEEE, AND UL.

C. SHOULD ANY CHANGE IN DRAWINGS OR SPECIFICATIONS BE REQUIRED TO COMPLY WITH GOVERNMENTAL REGULATIONS, THE CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER PRIOR TO EXECUTION OF THE WORK. THE WORK SHALL BE CARRIED OUT ACCORDING TO THE REQUIREMENTS OF SUCH CODE IN ACCORDANCE WITH THE INSTRUCTION OF THE ARCHITECT/ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.

D. THE PROVISIONS OF STANDARDS, CODES, LAWS, ORDINANCES, ETC., SHALL BE CONSIDERED MINIMUM REQUIREMENTS. IN CASE OF CONFLICT BETWEEN THEIR PUBLISHED REQUIREMENTS, THE OWNER'S REPRESENTATIVE SHALL DETERMINE WHICH IS TO BE FOLLOWED AND HIS DECISION SHALL BE BINDING. SPECIFIC REQUIREMENTS OF THIS SPECIFICATION OR THE DRAWINGS, WHICH EXCEED THE PUBLISHED REQUIREMENTS, SHALL TAKE PRECEDENCE OVER THEM.

1.03 FEES

A. ALL LOCAL FEES, PERMITS, AND SERVICES OF INSPECTION AUTHORITIES SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL COOPERATE FULLY WITH LOCAL COMPANIES WITH RESPECT TO THEIR SERVICES. CONTRACTOR SHALL INCLUDE IN HIS BID ANY COSTS TO BE INCURRED RELATIVE TO POWER SERVICE .

1.04 SCOPE OF WORK

A. THIS DIVISION OF THE SPECIFICATIONS COVERS THE ELECTRICAL SYSTEMS OF THE PROJECT. IT INCLUDES WORK PERFORMED BY THE ELECTRICAL TRADES AS WELL AS TRADES NOT NORMALLY CONSIDERED AS ELECTRICAL TRADES.

B. PROVIDE ALL INCIDENTALS, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, SUPERVISION, LABOR CONSUMABLE ITEMS, FEES, LICENSES, ETC., NECESSARY TO PROVIDE COMPLETE SYSTEMS. PERFORM START-UP AND CHECKOUT ON EACH ITEM AND SYSTEM TO PROVIDE FULLY OPERABLE SYSTEMS.

C. EXAMINE AND COMPARE THE ELECTRICAL DRAWINGS WITH THESE SPECIFICATIONS, AND REPORT ANY DISCREPANCIES BETWEEN THEM TO THE ARCHITECT/ENGINEER AND OBTAIN FROM HIM WRITTEN INSTRUCTIONS FOR CHANGES NECESSARY IN THE WORK. AT TIME OF BID THE MOST STRINGENT REQUIREMENTS MUST BE INCLUDED IN THE BID.

D. INSTALL AND COORDINATE THE ELECTRICAL WORK IN COOPERATION WITH OTHER TRADES INSTALLING INTERRELATED WORK. BEFORE INSTALLATION, MAKE PROPER PROVISIONS TO AVOID INTERFERENCES IN A MANNER APPROVED BY THE ARCHITECT/ENGINEER. ALL CHANGES REQUIRED IN THE WORK OF THE CONTRACTOR, CAUSED BY HIS NEGLIGENCE TO DO SO, SHALL BE MADE BY HIM AT HIS OWN EXPENSE.

E. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO PROVIDE A COMPLETE WORKABLE SYSTEM READY FOR THE OWNER'S OPERATION. ANY ITEM NOT SPECIFICALLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, BUT NORMALLY REQUIRED TO CONFORM WITH THE INTENT, ARE TO BE CONSIDERED A PART OF THE CONTRACT.

F. ALL MATERIALS FURNISHED BY THE CONTRACTOR SHALL BE NEW AND UNUSED (TEMPORARY LIGHTING AND POWER PRODUCTS ARE EXCLUDED) AND FREE FROM DEFECTS. ALL MATERIALS USED SHALL BEAR THE UNDERWRITER'S LABORATORY, INC. LABEL PROVIDED A STANDARD HAS BEEN ESTABLISHED FOR THE MATERIAL IN QUESTION.

G. EXCEPT FOR CONDUIT, CONDUIT FITTINGS, OUTLET BOXES, WIRE AND CABLE, ALL ITEMS OF EQUIPMENT OR MATERIAL SHALL BE THE PRODUCT OF ONE MANUFACTURER THROUGHOUT THE ENTIRE PROJECT. MULTIPLE MANUFACTURERS WILL NOT BE PERMITTED.

1.05 REFERENCES

A. UTILIZE THE FOLLOWING ABBREVIATIONS AND DEFINITIONS FOR DISCERNMENT WITHIN THE DRAWINGS AND SPECIFICATIONS.

1. ABBREVIATIONS

a) NEC NATIONAL ELECTRICAL CODE.

b) OSHA OCCUPATIONAL SAFETY AND HEALTH ACT.

c) ANSI AMERICAN NATIONAL STANDARDS INSTITUTE.

d) NFPA NATIONAL FIRE PROTECTION ASSOCIATION.

e) ASA AMERICAN STANDARDS ASSOCIATION.

f) IEEE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS.

g) NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.

h) UL UNDERWRITERS' LABORATORIES, INC.

i) IES ILLUMINATING ENGINEERING SOCIETY.

j) ICEA INSULATED CABLE ENGINEERS ASSOCIATION.

k) ASTM AMERICAN SOCIETY OF TESTING MATERIALS.

l) ETL ELECTRICAL TESTING LABORATORIES, INC.

m) OBM CERTIFIED BALLAST MANUFACTURERS.

n) EIA ELECTRONIC INDUSTRIES ASSOCIATION.

o) LED LIGHT EMITTING DIODE.

p) OEM ORIGINAL EQUIPMENT MANUFACTURER.

1.06 DEFINITIONS

A. "PROVIDE" MEANS TO SUPPLY, PURCHASE, TRANSPORT, PLACE, ERECT, CONNECT, TEST, AND TURN OVER TO OWNER, COMPLETE AND READY FOR REGULAR OPERATION, THE PARTICULAR WORK REFERRED TO.

B. "INSTALL" MEANS TO JOIN, UNITE, FASTEN, LINK, ATTACH, SET UP, OR OTHERWISE CONNECT TOGETHER BEFORE TESTING AND TURNING OVER TO OWNER, COMPLETE AND READY FOR REGULAR OPERATION, THE PARTICULAR WORK REFERRED TO.

C. "FURNISH" MEANS TO SUPPLY ALL MATERIALS, LABOR, EQUIPMENT, TESTING APPARATUS, CONTROLS, TESTS, ACCESSORIES, AND ALL OTHER ITEMS CUSTOMARILY REQUIRED FOR THE PROPER AND COMPLETE APPLICATION FOR THE PARTICULAR WORK REFERRED TO.

D. "WIRING" MEANS THE INCLUSION OF ALL RACEWAYS, FITTINGS, CONDUCTORS, CONNECTORS, TAPE, JUNCTION AND OUTLET BOXES, CONNECTIONS, SPLICES, AND ALL OTHER ITEMS NECESSARY AND REQUIRED IN CONNECTION WITH SUCH WORK.

E. "CONDUIT" MEANS THE INCLUSION OF ALL FITTINGS, HANGERS, SUPPORTS, SLEEVES, ETC.

F. "AS DIRECTED" MEANS AS DIRECTED BY THE ARCHITECT/ENGINEER, OR HIS REPRESENTATIVE.

G. "CONCEALED" MEANS EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, INSTALLED BEHIND WALL FURRING OR WITHIN DOUBLE PARTITIONS, OR INSTALLED ABOVE HUNG CEILINGS.

1.07 COORDINATION OF THE WORK

A. CERTAIN MATERIALS WILL BE PROVIDED BY OTHER TRADES. EXAMINE THE CONTRACT DOCUMENTS TO ASCERTAIN THESE REQUIREMENTS.

B. CAREFULLY CHECK SPACE REQUIREMENTS WITH OTHER TRADES AND THE PHYSICAL CONFINES OF THE AREA TO INSURE THAT ALL MATERIAL CAN BE INSTALLED IN THE SPACES ALLOTTED THERETO INCLUDING FINISHED SUSPENDED CEILINGS AND THE SPACES WITHIN THE EXISTING BUILDING. MAKE MODIFICATIONS THERETO AS REQUIRED AND APPROVED.

C. TRANSMIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLE TIME FOR INSTALLATION.

D. WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES, COORDINATE WITH OTHER TRADES TO INSURE THAT ALL TRADES HAVE THE INFORMATION NECESSARY SO THAT THEY MAY PROPERLY INSTALL ALL THE NECESSARY CONNECTIONS AND EQUIPMENT. IDENTIFY ALL ITEMS OF WORK THAT REQUIRE ACCESS SO THAT THE CEILING TRADE WILL KNOW WHERE TO INSTALL ACCESS DOORS AND PANELS.

E. COORDINATE, PROJECT AND SCHEDULE WORK WITH OTHER TRADES IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE.

F. THE DRAWINGS SHOW ONLY THE GENERAL RUN OF RACEWAYS AND APPROXIMATE LOCATION OF OUTLETS. ANY SIGNIFICANT CHANGES IN LOCATION OF OUTLETS, CABINETS, ETC., NECESSARY IN ORDER TO MEET FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER AND RECEIVE HIS APPROVAL BEFORE SUCH ALTERATIONS ARE MADE. ALL SUCH MODIFICATIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.

G. OBTAIN FROM THE ARCHITECT/ENGINEER IN THE FIELD THE LOCATION OF SUCH OUTLETS OR EQUIPMENT NOT DEFINITELY LOCATED ON THE DRAWINGS.

H. CIRCUIT "TAGS" IN THE FORM OF ARROWS ARE USED WHERE SHOWN TO INDICATE THE HOME RUNS OF RACEWAYS TO ELECTRICAL DISTRIBUTION POINTS. THESE TAGS SHOW THE CIRCUITS IN EACH HOME RUN AND THE PANEL DESIGNATION. SHOW THE ACTUAL CIRCUITS NUMBERS ON THE FINISHED RECORD DRAWINGS AND ON PANEL DIRECTORY

CARD. WHERE CIRCUITING IS NOT INDICATED, ELECTRICAL CONTRACTOR MUST PROVIDE REQUIRED CIRCUITING IN ACCORDANCE WITH THE LOADING INDICATED ON THE DRAWINGS OR AS DIRECTED.

I. ADJUST LOCATION OF CONDUITS, PANELS, EQUIPMENT, PULL BOXES, FIXTURES, ETC. TO ACCOMMODATE THE WORK TO PREVENT INTERFERENCES, BOTH ANTICIPATED AND ENCOUNTERED. DETERMINE THE EXACT ROUTE AND LOCATION OF EACH RACEWAY PRIOR TO FABRICATION.

1. RIGHT-OF-WAY:

a) LINES THAT PITCH HAVE THE RIGHT-OF-WAY OVER THOSE THAT DO NOT PITCH. FOR EXAMPLE: STEAM, CONDENSATE, AND PLUMBING DRAINS NORMALLY HAVE RIGHT-OF-WAY. LINES WHOSE ELEVATIONS CANNOT BE CHANGED TO HAVE RIGHT-OF-WAY OVER LINES WHOSE ELEVATIONS CAN BE CHANGED.

b) MAKE OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION IN RACEWAYS AS REQUIRED TO MAINTAIN PROPER HEADROOM IN PITCH OF SLOPING LINES WHETHER OR NOT INDICATED ON THE DRAWINGS.

J. WHEREVER THE WORK IS OF SUFFICIENT COMPLEXITY, PREPARE ADDITIONAL DETAIL DRAWINGS TO SCALE SIMILAR TO THAT OF THE BIDDING DRAWINGS, PREPARED ON TRACING MEDIUM OF THE SAME SIZE AS CONTRACT DRAWINGS. WITH THESE LAYOUTS, COORDINATE THE WORK WITH THE WORK OF OTHER TRADES. SUCH DETAILED WORK TO BE CLEARLY IDENTIFIED ON THE DRAWINGS AS TO THE AREA TO WHICH IT APPLIES. SUBMIT FOR REVIEW DRAWINGS CLEARLY SHOWING THE WORK AND ITS RELATION TO THE WORK OF OTHER TRADES BEFORE COMMENCING SHOP FABRICATION OR ERECTION IN THE FIELD. COORDINATE WITH LOCAL UTILITY COMPANY AS TO THEIR REQUIREMENTS FOR SERVICE CONNECTIONS AND PROVIDE ALL NECESSARY MATERIALS, LABOR AND TESTING.

K. COORDINATE WITH CONTRACTORS FOR WORK UNDER OTHER DIVISIONS OF THIS SPECIFICATION FOR ALL WORK NECESSARY TO ACCOMPLISH THIS CONTRACTOR'S WORK.

1.08 EXAMINATION OF SITE

A. PRIOR TO THE SUBMITTING OF BIDS, THE CONTRACTOR SHALL VISIT THE SITE OF THE JOB AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED INSTALLATION AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. FAILURE TO COMPLY WITH THE INTENT OF THIS PARAGRAPH WILL IN NO WAY RELIEVE THE CONTRACTOR OF PERFORMING ALL NECESSARY WORK SHOWN ON THE DRAWINGS.

1.09 PROGRESS OF WORK

A. THE CONTRACTOR SHALL ORDER THE PROGRESS OF HIS WORK TO CONFORM TO THE PROGRESS OF THE WORK OF OTHER TRADES AND SHALL COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE CONDITIONS OF THE BUILDING WILL PERMIT. ANY COST RESULTING FROM THE DEFECTIVE OR ILL-TIMED WORK PERFORMED UNDER THIS SECTION SHALL BE BORNE BY THE CONTRACTOR.

1.10 DELIVERY, STORAGE, AND HANDLING

A. SHIP AND STORE ALL PRODUCTS AND MATERIALS IN A MANNER THAT WILL PROTECT THEM FROM DAMAGE, WEATHER AND ENTRY OF DEBRIS. IF ITEMS ARE DAMAGED, DO NOT INSTALL, BUT TAKE IMMEDIATE STEPS TO OBTAIN REPLACEMENT OR REPAIR. ANY SUCH REPAIRS SHALL BE SUBJECT TO REVIEW AND ACCEPTANCE OF THE ARCHITECT/ENGINEER.

B. DELIVER MATERIALS IN MANUFACTURER'S UNOPENED CONTAINER FULLY IDENTIFIED WITH MANUFACTURER'S NAME, TRADE NAME, TYPE, CLASS, GRADE, SIZE AND COLOR.

C. STORE MATERIALS SUITABLY SHELTERED FROM THE ELEMENTS, BUT READILY ACCESSIBLY FOR INSPECTION BY THE ARCHITECT/ENGINEER UNTIL INSTALLED. STORE ALL ITEMS SUBJECT TO MOISTURE DAMAGE IN DRY, HEATED SPACES.

1.11 EQUIPMENT ACCESSORIES

A. PROVIDE SUPPORTS, HANGERS AND AUXILIARY STRUCTURAL MEMBERS REQUIRED FOR SUPPORT OF THE WORK.

B. FURNISH AND SET ALL SLEEVES FOR PASSAGE OF RACEWAYS THROUGH STRUCTURAL, MASONRY AND CONCRETE WALLS OF FLOORS AND ELSEWHERE AS WILL BE REQUIRED FOR THE PROPER PROTECTION OF EACH RACEWAY PASSING THROUGH BUILDING SURFACES.

C. WALL MOUNTED EQUIPMENT MAY BE DIRECTLY SECURED TO WALL BY MEANS OF STEEL BOLTS. MAINTAIN AT LEAST 1" AIR SPACE BETWEEN EQUIPMENT AND SUPPORTING WALL. GROUPS OF EQUIPMENT MAY BE MOUNTED ON SUBSTANTIALLY SIZED STEEL ANGLES, CHANNELS, OR BARS. PREFABRICATED STEEL CHANNELS PROVIDING A HIGH DEGREE OF MOUNTING FLEXIBILITY, SUCH AS THOSE MANUFACTURED BY KINDORF, GLOB-STRUTT AND UNISTRUT, MAY BE USED FOR MOUNTING ARRAYS OF EQUIPMENT.

1.12 OPERATIONS AND MAINTENANCE MANUALS

A. GENERAL: PROVIDE OPERATIONS & MAINTENANCE (O&M) MANUALS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

1. PROVIDE TWO (2) COPIES OF EACH MANUAL.

2. MANUALS SHALL BE 8-1/2" INCHES X 11" INCHES IN HARD COVER 3-RING LOOSE-LEAF BINDERS.

3. MANUALS SHALL BE COMPLETE AND IN OWNER'S HANDS PRIOR TO TURNING BUILDING OVER TO OWNER AND AT LEAST 10 DAYS PRIOR TO INSTRUCTION TO OPERATING PERSONNEL.

B. PROVIDE MANUFACTURER'S LITERATURE AS REGULARLY PUBLISHED BY THE RESPECTIVE MANUFACTURERS FOR PROPER PREVENTATIVE AND COMPREHENSIVE MAINTENANCE.

C. PROVIDE O&M MANUALS INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

1. ALPHABETICAL LIST OF ALL SYSTEM COMPONENTS, WITH THE NAME, ADDRESS, AND 24-HOUR PHONE NUMBER OF THE COMPANY RESPONSIBLE FOR SERVICING EACH ITEM DURING THE FIRST YEAR OF OPERATION.

2. OPERATING INSTRUCTIONS FOR COMPLETE SYSTEM INCLUDING:

a) NORMAL STARTING, OPERATING, AND SHUT-DOWN.

b) EMERGENCY PROCEDURES FOR FIRE OR FAILURE OF MAJOR EQUIPMENT.

c) SUMMER AND WINTER SPECIAL PROCEDURES, IF ANY.

d) DAY AND NIGHT SPECIAL PROCEDURES, IF ANY.

3. MAINTENANCE INSTRUCTION INCLUDING:

a) PROPER LUBRICANTS AND LUBRICATING INSTRUCTIONS FOR EACH PIECE OF EQUIPMENT, AND DATE WHEN LUBRICATED.

b) NECESSARY CLEANING, REPLACEMENT OR ADJUSTMENT SCHEDULE.

4. MANUFACTURER'S DATA FOR EACH PIECE OF EQUIPMENT INCLUDING:

a) INSTALLATION INSTRUCTIONS.

b) DRAWINGS AND SPECIFICATIONS.

c) PARTS LIST, INCLUDING RECOMMENDED ITEMS TO BE STOCKED.

d) COMPLETE WIRING DIAGRAMS.

e) MARKED OR CHANGED PRINTS LOCATING ALL CONCEALED PARTS AND ALL VARIATIONS FROM THE ORIGINAL SYSTEM DESIGN.

f) TEST AND INSPECTION CERTIFICATES.

D. REFER TO INDIVIDUAL SPECIFICATION SECTIONS FOR ADDITIONAL O&M REQUIREMENTS.

1.13 RECORD DOCUMENTS

A. DURING CONSTRUCTION, KEEP AN ACCURATE RECORD OF ALL DEVIATIONS BETWEEN THE WORK AS SHOWN ON DRAWINGS AND THAT WHICH IS ACTUALLY INSTALLED. KEEP THIS RECORD SET OF PRINTS AT THE JOB SITE FOR REVIEW BY THE ARCHITECT/ENGINEER.

B. UPON COMPLETION OF THE INSTALLATION AND ACCEPTANCE BY THE OWNER, TRANSFER ALL RECORD DRAWING INFORMATION TO ONE NEAT AND LEGIBLE SET OF PRINTS, THEN DELIVER THEM TO THE ARCHITECT/ENGINEER FOR TRANSMITTAL TO THE OWNER.

C. PROVIDE IN EACH MAIN ELECTRICAL SWITCHBOARD ROOM A FRAMED COPY UNDER GLASS OF THE APPROPRIATE SINGLE LINE RISER DIAGRAM AS REVIEWED BY THE ELECTRICAL ENGINEER. MEDIA SHALL BE A HIGH QUALITY PRESENTATION TYPE PAPER. BLUEPRINTS OR OTHER MEDIA WHICH FADE SHALL NOT BE USED.

1.14 GUARANTEE

A. GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER, EXCEPT THAT WHERE GUARANTEES OR WARRANTIES FOR LONGER TERMS ARE SPECIFIED HEREIN, SUCH LONGER TERM TO APPLY. WITHIN 24 HOURS AFTER NOTIFICATION, CORRECT ANY DEFICIENCIES THAT OCCUR DURING THE GUARANTEE PERIOD AT NO ADDITIONAL COST TO THE OWNER. ALL TO THE SATISFACTION OF THE OWNER AND ARCHITECT/ENGINEER. OBTAIN SIMILAR GUARANTEES FROM SUBCONTRACTORS, MANUFACTURERS, SUPPLIERS AND SUBTRADE SPECIALISTS.

PART 2 - PRODUCTS

2.01 MATERIALS

A. APPLICABLE EQUIPMENT AND MATERIALS SHALL BE LISTED BY UNDERWRITERS' LABORATORIES AND MANUFACTURED IN ACCORDANCE WITH ASME, NEMA, ANSI OR IEEE STANDARDS, AND AS APPROVED BY LOCAL AUTHORITIES HAVING JURISDICTION AS MENTIONED IN DIVISION 1.

B. IF PRODUCTS AND MATERIALS ARE SPECIFIED OR INDICATED ON THE DRAWINGS FOR A SPECIFIC ITEM OR SYSTEM, USE THOSE PRODUCTS OR MATERIALS. IF PRODUCTS AND MATERIALS ARE NOT LISTED IN EITHER OF THE ABOVE, USE FIRST CLASS PRODUCTS AND MATERIALS, SUBJECT TO REVIEW OF SHOP DRAWINGS WHERE SHOP DRAWINGS ARE REQUIRED OR AS REVIEWED IN WRITING WHERE SHOP DRAWINGS ARE NOT REQUIRED.

C. ALL EQUIPMENT CAPACITIES, ETC. ARE LISTED FOR JOB SITE OPERATING CONDITIONS. ALL

EQUIPMENT SENSITIVE TO ALTITUDES OR AMBIENT TEMPERATURES TO BE DERATED AND METHOD OF DERATING SHOWN ON SHOP DRAWINGS. WHERE OPERATING CONDITIONS SHOWN DIFFER FROM THE LABORATORY TEST CONDITIONS, THE EQUIPMENT TO BE DERATED AND THE METHOD OF DERATING SHOWN ON SHOP DRAWINGS.

2.02 SUBSTITUTION OF MATERIALS OR EQUIPMENT

A. ALL REQUESTS FOR SUBSTITUTION OF MATERIALS OR EQUIPMENT SHALL BE MADE IN WRITING BY THE CONTRACTOR. THE REQUEST MUST BE IN THE ENGINEERS OFFICE NOT LESS THAN 10 DAYS PRIOR TO THE BID DATE. SAMPLES OF PROPOSED SUBSTITUTE MATERIALS OR EQUIPMENT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW WHENEVER THEY ARE REQUESTED. BIDS SHALL BE BASED ONLY UPON THE SPECIFIED MATERIALS AND EQUIPMENT, OR SUBSTITUTES THAT HAVE RECEIVED WRITTEN ACCEPTANCE FROM THE ENGINEER PRIOR TO THE BID.

B. WHEREVER THE WORDS "FOR APPROVAL" OR "APPROVED" ARE USED IN REGARD TO MANUFACTURED SPECIALTIES, OR WHEREVER IT IS DESIRED TO SUBSTITUTE A DIFFERENT MAKE OR TYPE OF APPARATUS FOR THAT SPECIFIED, SUBMIT ALL INFORMATION PERTINENT TO THE ADEQUACY AND ADAPTABILITY OF THE PROPOSED APPARATUS, AND SECURE ARCHITECT/ENGINEER'S REVIEW BEFORE APPARATUS IS ORDERED.

C. WHEREVER QUANTITIES OR A DEFINITE MAKE AND SIZE OF APPARATUS IS SPECIFIED, THE MAKE AND SIZE OF APPARATUS WHICH IS PROPOSED MUST CONFORM SUBSTANTIALLY (IN REGARD TO THE OPERATING RESULTS) TO THAT SPECIFIED OR IMPLIED. SAME SHALL APPLY TO IMPORTANT DIMENSIONS RELATING TO OPERATION OF APPARATUS IN COORDINATION WITH THE REST OF THE SYSTEM, OR TO PROPERLY FITTING IT INTO AVAILABLE SPACE. CONDITIONS, ANY SUBSTITUTION OF EQUIPMENT OR APPARATUS SHALL INCLUDE ALL NECESSARY REVISIONS, AS REQUIRED TO COMPLETE THE INSTALLATION, ACCEPTANCE OF SUBSTITUTIONS, FOR EQUIPMENT SPECIFIED HEREIN, WILL NOT BE GIVEN MERELY UPON SUBMISSION OF MANUFACTURER'S NAMES AND WILL BE GIVEN ONLY AFTER RECEIPT OF COMPLETE AND SATISFACTORY PERFORMANCE DATA COVERING THE COMPLETE RANGE OF OPERATING CONDITIONS IN TABULAR AND GRAPHICAL FORM. FURNISH COMPLETE AND SATISFACTORY INFORMATION RELATIVE TO EQUIPMENT DIMENSIONS, WEIGHT, ETC. ACCEPTANCE OF ALL EQUIPMENT SPECIFIED OR SHOWN ON THE DRAWINGS, OR SUBSTITUTIONS SUBMITTED FOR THAT SPECIFIED OR SHOWN ON THE DRAWINGS, WILL BE GRANTED IF SUCH EQUIPMENT, IN THE OPINION OF THE ARCHITECT/ENGINEER, CONFORMS TO THE PERFORMANCE REQUIREMENTS, SPACE CONDITIONS, WEIGHT REQUIREMENTS AND QUALITY REQUIREMENTS. ANY ADDITIONAL CONSTRUCTION AND DESIGN COSTS INCURRED AS A RESULT OF ANY ACCEPTED SUBSTITUTION SHALL BE BORNE BY THE CONTRACTOR. THE OPINION AND JUDGEMENT OF THE ARCHITECT/ENGINEER SHALL BE FINAL, CONCLUSIVE, AND BINDING.

2.03 SHOP DRAWINGS

A. PREPARE AND SUBMIT DETAILED SHOP DRAWINGS FOR MATERIALS, SYSTEMS, AND EQUIPMENTS AS LISTED HEREIN, INCLUDING LOCATIONS AND SIZES OF ALL OPENINGS IN FLOOR DECKS, WALLS, AND FLOORS.

B. THE WORK DESCRIBED IN ANY SHOP DRAWING SUBMISSION SHALL BE CAREFULLY CHECKED FOR ALL CLEARANCES (INCLUDING THOSE REQUIRED FOR MAINTENANCE AND SERVICING), FIELD CONDITIONS, MAINTENANCE OF ARCHITECTURAL CONDITIONS, AND PROPER COORDINATION WITH ALL TRADES ON THE JOB. EACH SUBMITTED SHOP DRAWING SHALL INCLUDE A CERTIFICATION THAT ALL RELATED JOB CONDITIONS HAVE BEEN CHECKED AND THAT NO CONFLICT EXISTS.

C. ALL DRAWINGS SHALL BE SUBMITTED SUFFICIENTLY IN ADVANCE OF FIELD REQUIREMENTS TO ALLOW AMPLE TIME FOR CHECKING AND RESUBMITTAL AS MAY BE REQUIRED. ALL SUBMITTALS SHALL BE COMPLETE AND CONTAIN ALL REQUIRED AND DETAILED INFORMATION.

D. ACCEPTANCE OF ANY SUBMITTED DATA OR SHOP DRAWINGS FOR MATERIAL, EQUIPMENT APPARATUS, DEVICES, ARRANGEMENTS, AND LAYOUT SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY OF FURNISHING SAME OF PROPER DIMENSIONS AND WEIGHT, CAPACITIES, SIZES, QUANTITY, QUALITY AND INSTALLATION DETAILS. TO EFFICIENTLY PERFORM THE REQUIREMENTS AND INTENT OF THE CONTRACT. SUCH ACCEPTANCE SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS, OMISSIONS, OR INADEQUACIES OF EQUIPMENT OR SUBSTANTIALLY SIZED SHOP DRAWINGS.

E. EACH SHOP DRAWING SHALL CONTAIN THE FOLLOWING INFORMATION:

1. PROVIDE GENERAL INFORMATION ON EACH COPY OF THE SUBMITTAL.

a) PROJECT TITLE.

b) REFERENCE TO THE APPLICABLE DRAWING AND SPECIFICATION ARTICLE.

c) CONTRACTOR AND SUPPLIER IDENTIFICATION, ADDRESSES AND TELEPHONE NUMBERS.

d) SUBMITTAL DATE.

2. CERTIFICATION THAT THE CONTRACTOR HAS REVIEWED THE SUBMITTAL. REFER TO INDIVIDUAL SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION REQUIREMENTS.

F. SHOP DRAWING SUBMITTALS SHALL BE PROVIDED FOR EACH SPECIFIC MATERIAL, SYSTEM, OR EQUIPMENT AS IDENTIFIED HEREIN.

1. AS A MINIMUM, MAKE SUBMITTALS ON THE FOLLOWING ITEMS:

a) PANELBOARD AND METER ENCLOSURE

b) RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

c) LIGHTING FIXTURES, LIGHTING POLES, AND BOLLARDS

PART 3 - EXECUTION

3.01 INSTALLATION

B. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLING, CONNECTING, AND ADJUSTING ALL EQUIPMENT. PROVIDE ONE COPY OF SUCH INSTRUCTIONS TO THE ARCHITECT/ENGINEER BEFORE INSTALLING ANY EQUIPMENT. PROVIDE A COPY OF SUCH INSTRUCTIONS AT THE EQUIPMENT DURING ANY WORK ON THE EQUIPMENT. PROVIDE ALL SPECIAL SUPPORTS, CONNECTIONS, WIRING, ACCESSORIES, ETC.

C. USE MECHANICS SKILLED IN THEIR TRADE FOR ALL WORK.

D. KEEP ALL ITEMS PROTECTED BEFORE AND AFTER INSTALLATION. CLEAN UP ALL DEBRIS.

E. BEFORE COMMENCING WORK, EXAMINE ALL ADJOINING, UNDERLYING, ETC., WORK ON WHICH THIS WORK IS IN ANY WAY DEPENDENT FOR PERFECT WORKMANSHIP AND REPORT ANY CONDITION WHICH PREVENTS PERFORMANCE OF FIRST CLASS WORK. BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS TO WHICH CONNECTIONS MUST BE MADE OR WHICH MUST BE CHANGED OR ALTERED.

3.02 PREMIUM TIME WORK

A. THE FOLLOWING WORK SHALL BE PERFORMED AT NIGHT OR WEEKEND OTHER THAN HOLIDAY WEEKENDS AS DIRECTED AND COORDINATED WITH THE OWNER.

1. ALL TIE-IN, CUT-OUT AND MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEM AND OTHER EXISTING SYSTEM REQUIRING TIE-INS OR MODIFICATIONS SHALL BE ARRANGED AND SCHEDULED WITH THE OWNER TO BE DONE AT A TIME AS TO MAINTAIN CONTINUITY OF THE SERVICE AND NOT INTERFERE WITH NORMAL BUILDING OPERATIONS.

2. ALL ELECTRIC TIE-INS OR POWER DISRUPTIONS SHALL REQUIRE A MINIMUM OF 72-HOUR NOTICE.

3.03 CUTTING, PATCHING AND REPAIRING

A. THE WORK SHALL BE CAREFULLY LAID OUT IN ADVANCE. WHERE CUTTING, CHANNELING, CHASING OR DRILLING OF FLOORS, WALLS, PARTITIONS, CEILINGS OR OTHER SURFACES IS NECESSARY FOR THE PROPER INSTALLATION, SUPPORT OR ANCHORAGE OF RACEWAY, OUTLETS OR OTHER EQUIPMENT, THE WORK SHALL BE CAREFULLY DONE. ANY DAMAGE TO THE BUILDING, PIPING, EQUIPMENT OR DEFACED FINISH PLASTER, WOODWORK, METALWORK, ETC. SHALL BE REPAIRED BY SKILLED MECHANICS OF THE TRADES INVOLVED AT NO ADDITIONAL COST TO THE OWNER.

B. WHERE CONDUITS, MOUNTING CHANNELS, OUTLET, JUNCTION, OR PULL BOXES ARE MOUNTED ON A PAINTED SURFACE, OR A SURFACE TO BE PAINTED, THEY SHALL BE PAINTED TO MATCH THE SURFACE. WHENEVER SUPPORT CHANNELS ARE CUT, THE BARE METAL SHALL BE COLD GALVANIZED.

3.05 DEMOLITION AND CONTINUANCE OF EXISTING SERVICES

A. ALL EXISTING ELECTRICAL SERVICES NOT SPECIFICALLY INDICATED TO BE REMOVED OR ALTERED SHALL REMAIN AS THEY PRESENTLY EXIST.

B. SHOULD ANY EXISTING SERVICES INTERFERE WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL (AFTER OBTAINING WRITTEN APPROVAL FROM THE ARCHITECT/ENGINEER) ALTER OR REROUTE SUCH EXISTING EQUIPMENT TO FACILITATE NEW CONSTRUCTION.

C. UNDER NO CIRCUMSTANCES SHALL EXISTING SERVICES BE TERMINATED OR ALTERED UNLESS DEEMED NECESSARY BY THE ARCHITECT/ENGINEER OR SPECIFIED HEREIN; ALSO, PRIOR TO ALTERING ANY EXISTING SITUATION, THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING GIVING TWO (2) WEEKS ADVANCE NOTICE OF PLANNED ALTERATION.

D. IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO GUARANTEE CONTINUITY OF PRESENT FACILITIES (WITH RESPECT TO DAMAGE OR ALTERATION DUE TO NEW CONSTRUCTION) AND ANY UNAUTHORIZED ALTERATION TO EXISTING EQUIPMENT SHALL BE

CORRECTED BY THE CONTRACTOR TO THE ARCHITECT/ENGINEER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.

3.06 CLEANING UP

A. CONTRACTOR SHALL TAKE CARE TO AVOID ACCUMULATION OF DEBRIS, BOXES, CRATES, ETC. RESULTING FROM THE INSTALLATION OF HIS WORK. CONTRACTOR SHALL REMOVE FROM THE PREMISES EACH DAY ALL DEBRIS, BOXES, ETC., AND KEEP THE PREMISES CLEAN.

B. CONTRACTOR SHALL CLEAN UP ALL FIXTURES AND EQUIPMENT AT THE COMPLETION OF THE PROJECT.

C. ALL SWITCHBOARDS, PANELBOARDS, WIREWAYS, TRENCH DUCTS, CABINETS AND ENCLOSURES SHALL BE THOROUGHLY VACUUMED CLEAN PRIOR TO ENERGIZING EQUIPMENT AND AT THE COMPLETION OF THE PROJECT. EQUIPMENT SHALL BE OPENED FOR OBSERVATION BY THE ARCHITECT/ENGINEER AS REQUIRED.

3.07 WATERPROOFING

A. AVOID, IF POSSIBLE, THE PENETRATION OF ANY WATERPROOF MEMBRANES SUCH AS ROOFS, MACHINE ROOM FLOORS, BASEMENT WALLS, AND THE LIKE. IF SUCH PENETRATION IS NECESSARY, PERFORM IT PRIOR TO THE WATERPROOFING AND FURNISH ALL SLEEVES OR PITCH-POCKETS REQUIRED. ADVISE THE ARCHITECT/ENGINEER AND OBTAIN WRITTEN PERMISSION BEFORE PENETRATING ANY WATERPROOF MEMBRANE, EVEN WHERE SUCH PENETRATION IS SHOWN ON THE DRAWINGS.

B. IF CONTRACTOR PENETRATES ANY WALLS OR SURFACES AFTER THEY HAVE BEEN WATERPROOFED, HE SHALL RESTORE THE WATERPROOF INTEGRITY OF THAT SURFACE AS DIRECTED BY THE ARCHITECT/ENGINEER AT HIS OWN EXPENSE.

3.08 SUPPORTS

A. SUPPORT WORK IN ACCORDANCE WITH THE BEST INDUSTRY PRACTICE AND THE FOLLOWING.

B. INCLUDE SUPPORTING FRAMES OR RACKS EXTENDING FROM BUILDING STRUCTURE FOR WORK INDICATED AS BEING SUPPORTED FROM WALLS WHERE THE WALLS ARE INCAPABLE OF SUPPORTING THE WEIGHT. IN PARTICULAR, PROVIDE SUCH FRAMES OR RACKS IN ELECTRIC CLOSETS.

C. INCLUDE SUPPORTING FRAMES OR RACKS FOR EQUIPMENT, INTENDED FOR VERTICAL SURFACE MOUNTING, WHICH IS REQUIRED IN A FREE STANDING POSITION.

D. SUPPORTING FRAMES OR RACKS SHALL BE OF STANDARD ANGLE, STANDARD CHANNEL OR SPECIALTY SUPPORT SYSTEM STEEL MEMBERS. THEY SHALL BE RIGIDLY BOLTED OR WELDED TOGETHER AND ADEQUATELY BRACED TO FORM A SUBSTANTIAL STRUCTURE. RACKS SHALL BE OF AMPLE SIZE TO ASSURE A WORKMANLIKE ARRANGEMENT OF ALL EQUIPMENT MOUNTED ON THEM.

E. NOTHING, (INCLUDING OUTLET, PULL AND JUNCTION BOXES AND FITTINGS) SHALL DEPEND ON ELECTRIC CONDUITS, RACEWAYS, OR CABLES FOR SUPPORT, EXCEPT THAT THREADED HUB TYPE FITTINGS HAVING A GROSS VOLUME NOT IN EXCESS OF 100 CUBIC INCHES MAY BE SUPPORTED FROM HEAVY WALL CONDUIT, WHERE THE CONDUIT IS SECURELY SUPPORTED FROM THE STRUCTURE WITHIN FIVE INCHES OF THE FITTING ON TWO OPPOSITE SIDES.

F. NOTHING SHALL REST ON, OR DEPEND FOR SUPPORT ON, SUSPENDED CEILINGS MEDIA (TILES, LATH, PLASTER, AS WELL AS SPLINES, RUNNERS, BARS AND THE LIKE IN THE PLANE OF THE CEILING).

G. PROVIDE REQUIRED SUPPORTS AND HANGERS FOR CONDUIT, EQUIPMENT, ETC., SO THAT LOADING WILL NOT EXCEED ALLOWABLE LOADINGS OF STRUCTURE.

3.09 FASTENINGS

A. FASTEN ELECTRIC WORK TO BUILDING STRUCTURE IN ACCORDANCE WITH THE BEST INDUSTRY PRACTICE AND THE FOLLOWING.

B. FLOOR OR PAD MOUNTED EQUIPMENT SHALL NOT BE HELD IN PLACE SOLELY BY ITS OWN DEAD WEIGHT. INCLUDE ANCHOR FASTENING IN ALL CASES.

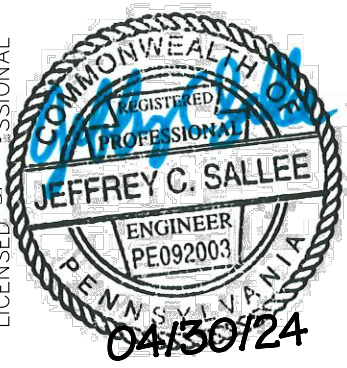
C. FOR ITEMS WHICH ARE SHOWN AS BEING CEILING MOUNTED AT LOCATIONS WHERE FASTENING TO THE BUILDING CONSTRUCTION ELEMENT ABOVE IS NOT POSSIBLE, PROVIDE SUITABLE AUXILIARY CHANNEL OR ANGLE IRON BRIDGING, TYING TO THE BUILDING STRUCTURAL ELEMENTS.

3.10 TESTING EQUIPMENT AND MATERIALS

A. THE CONTRACTOR SHALL PROVIDE ALL TESTING INSTRUMENTS, EQUIPMENT AND ALL MATERIALS, CONNECTIONS, LABOR, ETC., REQUIRED TO PERFORM TESTS.

B. TEST ALL CIRCUITS, FIXTURES, EQUIPMENT, AND SYSTEMS FOR PROPER OPERATION AND FREEDOM FROM GROUNDS, SHORTS AND OPEN CIRCUITS BEFORE ACCEPTANCE IS REQUESTED.

C. MEASURE VOLTAGE AT PANELBOARDS AND OUTLETS AFTER THE BUILDING IS FULLY OCCUPIED. MAKE FINAL TRANSFORMER TAP ADJUSTMENTS BASED ON THESE MEASUREMENTS. PERFORM ALL TESTS REQUIRED BY LOCAL AUTHORITIES, SUCH AS TESTS OF LIFE SAFETY SYSTEMS, IN ADDITION TO TESTS SPECIFIED HEREIN. PERFORM TESTS REQUIRED BY OTHER SPECIFICATION SECTIONS.

PPA GARAGE MAINTENANCE REPAIRS - OLD CITY	SHEET NUMBER E-002	KHA PROJECT 112359002	DATE 01/31/2024	SCALE AS SHOWN	DESIGNED BY JCS	DRAWN BY LDH	CHECKED BY LTM		Kimley»Horn © 2024 KIMLEY-HORN AND ASSOCIATES, INC. 50 SOUTH 16TH ST, TWO LIBERTY PLACE SUITE 3300 PHILADELPHIA, PA 19102 PHONE: 267-687-0150 WWW.KIMLEY-HORN.COM	ADDENDUM #4 REVISION	ADDENDUM #7 REVISION	1	2	NO.	REVISIONS	DATE	BY
										JCS	JCS	07/29/24	08/16/24				

GENERAL NOTES

PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PHILADELPHIA
PENNSYLVANIA

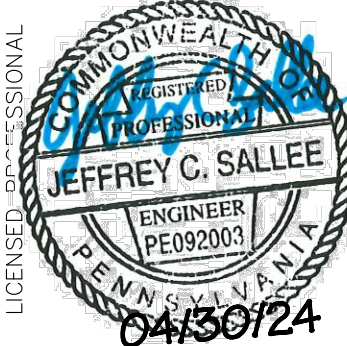
ELECTRICAL ABBREVIATIONS

A	AMPERES	LTG	LIGHTING
AC	ALTERNATING CURRENT		
AFF	ABOVE FINISHED FLOOR	M	METER OR MOTOR
AFG	ABOVE FINISHED GRADE	MAX	MAXIMUM
AIC	AMPERES INTERRUPTING CAPACITY	MCC	MOTOR CONTROL CENTER
AL	ALUMINUM	MCP	MOTOR CIRCUIT PROTECTOR
AT	AMP TRIP	MH	METAL HALIDE OR MANHOLE
AWG	AMERICAN WIRE GAUGE	MIN	MINIMUM
AUX	AUXILLIARY	mm	MILLIMETER
		MTD	MOUNTED
BACS	BUILDING AUTOMATION CONTROL SYSTEM	MTG	MOUNTING
BCU	BUILDING CONTROL UNIT	MTR	MOTOR
BIL	BASIC IMPULSE LEVEL	MV	MEDIUM VOLTAGE
BOT	BOTTOM OF TRAY		
		N	NEUTRAL OR NORTH
C	CONTACTOR/CONDUIT/COIL	NA	NON-AUTOMATIC
CB	CIRCUIT BREAKER	NC	NORMALLY CLOSED
CD	CANDELA	NEC	NATIONAL ELECTRICAL CODE
CKT	CIRCUIT	N.I.C.	NOT IN CONTRACT
CL	CENTERLINE	NF	NON-FUSED
CP	CONTROL PANEL	NO	NORMALLY OPEN
CPT	CONTROL POWER TRANSFORMER	NTS	NOT TO SCALE
CR	CARD READER		
CT	CURRENT TRANSFORMER	OC	ON CENTER
		OCB	OIL CIRCUIT BREAKER
D	DEEP	OL	OVERLOAD RELAY
DC	DIRECT CURRENT	O/W	OIL/WATER
DCS	DISTRIBUTED CONTROL SYSTEM		
DDC	DIRECT DIGITAL CONTROL	P	POLE
DISC	DISCONNECT	PA	PUBLIC ADDRESS
DPST	DOUBLE POLE SINGLE THROW	PB	PUSH BUTTON OR PULL BOX
DPU	DATA PROCESSING UNIT	PC	PHOTOCELL
DWG	DRAWING	PCM	PROGRAMMABLE CONTROL MODULE
		PNL	PANEL
EC	EMPTY CONDUIT	PP	POWER PANEL
EF	EXHAUST FAN	PVC	POLY VINYL CHLORIDE
EMCS	EMERGENCY MANAGEMENT CONTROL SYSTEM		
		RH	RADIANT HEATER
EMT	ELECTRICAL METALLIC TUBING	RMS	ROOT MEAN SQUARE
EP	EXPLOSION PROOF	RTU	ROOF TOP UNIT
EPO	EMERGENCY POWER OFF	RU	RACK UNIT
ETM	ELAPSED TIME METER	RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
ETR	EXISTING TO REMAIN	RVNR	REDUCED VOLTAGE, NON-REVERSING
		S	SLIP FIT
F	FIXED-FIT	SB	SPICE BOX
FACP	FIRE ALARM CONTROL PANEL	SCADA	SUPERVISORY CONTROL AND DATA
FAAP	FIRE ALARM ANNUNCIATOR PANEL		
FM	FREQUENCY MONITOR	SEL	AQUISITION
FNVR	FULL VOLTAGE, NON-REVERSING	SPDT	SELECTOR SWITCH
		SOL	SINGLE POLE DOUBLE THROW
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SS	SOLENOID
GFP	GROUND FAULT PROTECTION	SS	SELECTOR SWITCH
GND	GROUND	STR	STARTER
GRS	GALVANIZED RIGID CONDUIT	STRS	STARTERS
		SW	SWITCH
H	PHASE OR HOT CONDUCTOR		
HH	HANDHOLE	TC	TIME CLOCK
HP	HORSEPOWER	TTB	TELEPHONE TERMINAL BOARD
HACR	HEATING, AIR CONDITIONING & REFRIGERATION TYPE CIRCUIT BREAKER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
HID	HIGH INTENSITY DISCHARGE		
HPS	HIGH PRESSURE SODIUM	UCP	UNIVERSAL CONTROL PANEL
HVAC	HEATING VENTILATION & AIR CONDITIONING	UE	UNDERGROUND ELECTRICAL
		UON	UNLESS OTHERWISE NOTED
I&C	INSTRUMENTATION AND CONTROLS	V	VOLTS
IG	ISOLATION GROUND	VA	VOLT AMPERES
INS	INSULATION	VFD	VARIABLE FREQUENCY DRIVE
IPS	IRON PIPE SIZE	VRLA	VALVE REGULATED LEAD ACID
J	JUNCTION BOX	W	WIRE OR WATT
		WP	WEATHER PROOF
K	KILO		
KCMIL	THOUSAND CIRCULAR MILS	XFMR	TRANSFORMER
KVA	KILOVOLT AMPERE		
KVAR	KILOVOLT AMPERE REACTIVE	2SNR	TWO SPEED, NON REVERSING
KW	KILOWATT		
LP	LIGHTING PANEL		
LTC	LOAD TAP CHANGER		







ELECTRICAL GENERAL NOTES

1. CONTRACTOR SHALL BE FULLY INFORMED OF ALL EXISTING CONDITIONS THAT AFFECT THE WORK AND COST OF THE INTENDED WORK. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND EXAMINE THE DRAWINGS AS THEY RELATE TO SITE CONDITIONS. BIDDERS WHO DO NOT VISIT THE SITE MAY BE UNILATERALLY NOT PERMITTED TO SUBMIT A BID IF THE OWNER SO DECIDES.
2. ELECTRICAL CONTRACTOR SHALL FULLY UNDERSTAND DESIGN PRIOR TO BID. ANY ALLEGED MISUNDERSTANDING OF THE SCOPE, DESIGN OR WORK TO BE PERFORMED WILL REMOVE CONSIDERATION FOR SELECTION. SELECTED ELECTRICAL CONTRACTOR SHALL BE IN FULL AGREEMENT TO THE ITEMS AND CONDITIONS INDICATED IN THE PLANS AND SPECIFICATIONS. ANY DISCREPANCIES OR OMISSIONS FOUND IN THE CONTRACT DOCUMENTS OR DOUBT AS TO THE INTENT SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER OR PROJECT MANAGER. WHERE CLARIFICATION CAN NOT BE PROVIDED PRIOR TO BID, CONTRACTOR SHALL ASSUME THE MORE EXPENSIVE METHOD FOR BID.
3. EXISTING LOCATIONS AND CONDITIONS OF ELECTRICAL EQUIPMENT SHOWN ON DRAWINGS HAVE BEEN OBTAINED FROM IMAGES AND RECORD DRAWINGS TO INDICATE A CLOSE REPRESENTATION AS TO EXISTING SITE CONDITIONS. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDS AND VERIFY THE ITEMS SHOWN AS WELL AS EXISTING CONDITIONS NOT DISPLAYED ON THE DRAWINGS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FULLY COMPLETE AND FUNCTIONAL SYSTEM AS INTENDED IN THE PLANS. ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, EQUIPMENT, ACCESSORIES AND PERMITS SHALL BE FURNISHED BY THE CONTRACTOR. CONTRACTOR SHALL ASSUME THE RESPONSIBILITY OF COORDINATION WITH ALL OTHER TRADES IN ORDER TO COMPLETE THE WORK INTENDED. ALL COORDINATION ITEMS RESULTING IN ADDITIONAL EXPENSE SHALL NOT BE EXPENSED TO THE OWNER. DRAWINGS AND SPECIFICATIONS DO NOT INDICATE EVERY ITEM OF MATERIAL, EQUIPMENT OR LABOR REQUIRED TO PRODUCE A COMPLETE AND PROPERLY OPERATING INSTALLATION.
5. CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS, LICENSES AND INSPECTIONS AS REQUIRED BY LOCAL AND NATIONAL REGULATIONS. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR EXPENSES CREATED IN CONNECTION WITH THE WORK.
6. CONTRACTOR SHALL NOT CONCEAL ANY WORK UNTIL APPROVED BY ELECTRICAL INSPECTOR OR ENGINEER.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH APPLICABLE STANDARDS AND REGULATIONS INCLUDING ACCORDANCE WITH THE LATEST ADOPTED NATIONAL ELECTRICAL CODE (NEC) AND ALL ADDITIONAL REQUIREMENTS BY LOCAL AHJ.
8. ALL WORKMANSHIP SHALL BE NEAT AND ORGANIZED IN ACCORDANCE WITH APPLICABLE STANDARDS AND SHALL BE SUBJECT TO APPROVAL OF THE OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE. RACEWAY, FIXTURES AND WIRING DEVICES SHALL BE PROPERLY ALIGNED, LEVELED AND SUPPORTED. RACEWAY SHALL BE GROUPED AND INSTALLED IN RUNS WHICH ARE PARALLEL AND PERPENDICULAR WITH BUILDING LINES.
9. LOCATIONS ON ELECTRICAL PLANS ARE APPROXIMATE. FINAL LOCATION OF EQUIPMENT AND DEVICES TO BE FIELD COORDINATED WITH OWNER AND/OR OWNER'S REPRESENTATIVE. CONTRACTOR SHALL COORDINATE ALL TEMPORARY INTERRUPTIONS TO POWER WITH ALL AFFECTED PARTIES PRIOR TO INTERRUPTION. ALL INTERRUPTIONS SHALL BE KEPT TO A MINIMUM DURATION. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL TEMPORARY POWER REQUESTED BY AFFECTED PARTIES THROUGHOUT THE DURATION OF THE INTERRUPTION.
10. ALL ELECTRICAL MATERIALS SHALL BE NEW UNLESS SPECIFICALLY OTHERWISE STATED. DEFECTIVE EQUIPMENT AND/OR EQUIPMENT DAMAGED DURING INSTALLATION
- AND/OR TESTING SHALL BE REPLACED OR REPAIRED TO MEET APPROVAL FROM ENGINEER OR INSPECTOR AT THE EXPENSE OF THE CONTRACTOR. PROPOSED EQUIPMENT SHALL BE NEMA RATED AND APPROVED.
11. CONTRACTOR SHALL SUBMIT MANUFACTURER'S STANDARD PRODUCT INFORMATION, PERFORMANCE SPECIFICATIONS, ELECTRICAL RATINGS, PHYSICAL DIMENSIONS AND ALL OTHER NECESSARY INFORMATION FOR ENGINEER TO ENSURE COMPLIANCE WITH SPECIFICATIONS. SHOP DRAWINGS AND SUBMITTALS SHALL BE REVIEWED BY ENGINEER PRIOR TO ORDERING AND INSTALLING ANY EQUIPMENT. CONTRACTOR SHALL HIGHLIGHT ITEMS TO BE REVIEWED. EQUIPMENT ORDERED WITHOUT A REVIEWED SUBMITTAL IS DONE AT THE CONTRACTOR'S OWN RISK.
12. SUBMITTALS SUBMITTED AS VALUE ENGINEERING SUBMITTALS SHALL BE LABELED AS SUCH AND OFFER A DEDUCTION OR CREDIT BACK TO THE OWNER.
13. ANY DEVIATIONS, SUBSTITUTIONS OR ALTERATIONS WITHOUT APPROVAL BY ENGINEER SHALL BE ASSUMED AS THE RESPONSIBILITY OF THE CONTRACTOR.
14. ALL LISTED CABLE SIZES ARE SIZED PER NEC REQUIREMENTS. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR MEETING CONDUIT FILL REQUIREMENTS IF A LARGER SIZED CABLE IS USED. CONTRACTOR SHALL NOT USE CABLE SMALLER THAN SPECIFIED ON PLANS.
15. LOW VOLTAGE WIRING IS NOT SHOWN IN PLANS, UNLESS SPECIFICALLY CALLED OUT. CONTRACTOR SHALL REFER TO MANUFACTURER DETAIL SHEETS FOR ADDITIONAL LOW VOLTAGE WIRING AND CONDUITS.
16. CONTRACTOR SHALL COLOR CODE NEW CABLE PER INDUSTRY STANDARD.
17. ALL CIRCUITS SHALL BE PROVIDED WITH AN INSULATED GREEN COPPER EQUIPMENT GROUND CONDUCTOR SIZED PER NEC. EQUIPMENT GROUNDS SHALL BE BONDED TO ALL EQUIPMENT AND DEVICES. USE OF METALLIC CONDUIT SHALL NOT TAKE THE PLACE OF AN EQUIPMENT GROUND CONDUCTOR.
18. ALL WIRING SHALL ADHERE TO NEC CONDUIT FILL REQUIREMENTS. ANY DEVIATION FROM CONDUIT SIZE SPECIFIED ON PLANS IS ASSUMED TO BE THE CONTRACTOR'S RESPONSIBILITY.
19. HOMERUNS REPRESENT CONDUIT AND CABLE TO SPECIFIED PANEL. CONTRACTOR SHALL FIELD ROUTE CONDUIT AS NECESSARY. CONFIRM ROUTING WITH OWNER AND ENGINEER
20. CONTRACTOR SHALL INSPECT AREA OF WORK AND PERFORM GROUND PENETRATING RADAR SCAN OR X-RAY ALL PROPOSED PENETRATIONS PRIOR TO WORK TO DETERMINE EXACT LOCATIONS OF STRUCTURAL REINFORCEMENT OR EMBEDDED SYSTEMS. COORDINATE FLOOR AND WALL PENETRATIONS WITH STRUCTURAL ENGINEER. ALL PENETRATIONS SHALL BE SEALED BY APPROVED MEANS TO PREVENT ENERGY LOSS AND MOISTURE AND RODENT INTRUSION.
21. ALL CONDUIT AND CABLING SHALL BE PROPERLY SUPPORTED AS REQUIRED BY CODE.
22. ALL CABLE SHALL BE LABELED ON BOTH ENDS AND DISTRIBUTION EQUIPMENT SHALL BE PERMANENTLY LABELED PER AHJ RECOMMENDATIONS. TYPEWRITTEN PANEL SCHEDULE SHALL BE PROVIDED WITH EQUIPMENT.
23. CONTRACTOR SHALL MAINTAIN CLEARANCES OF WORKING SPACES AS REQUIRED BY ARTICLE 110 OF THE NEC. GENERAL CONTRACTOR SHALL ASSUME RESPONSIBILITY OF COORDINATION FOR CLEARANCES AND BE RESPONSIBLE FOR ANY RELOCATION DUE TO AN IMPEDANCE OF CLEARANCES.
24. THE CONTRACTOR SHALL TEST ALL EQUIPMENT INSTALLED UNDER THE SCOPE OF WORK AND DEMONSTRATE ITS PROPER OPERATION TO THE OWNER. CONTRACTOR SHALL COORDINATE A FINAL INSPECTION OF THE SYSTEM UPON COMPLETION.
25. PRIOR TO FINAL ACCEPTANCE, ALL DEFICIENCIES IDENTIFIED SHALL BE CORRECTED AT THE CONTRACTOR'S

- EXPENSE.
26. ALL CERTIFICATES OF APPROVAL SHALL BE IN DUPLICATE, DELIVERED TO THE ENGINEER AND BECOME THE PROPERTY OF THE OWNER.
27. CONTRACTOR SHALL MAINTAIN A COPY OF ALL DRAWINGS AND APPROVED SHOP DRAWINGS ON SITE AND RECORD ALL REVISIONS AND DEVIATIONS FROM THE ORIGINAL CONSTRUCTION DRAWINGS. A COPY SHALL BE SUBMITTED TO THE ENGINEER UPON THE COMPLETION OF WORK.
28. CONTRACTOR SHALL PROVIDE TWO PRINTED COPIES AND ONE ELECTRONIC COPY OF MANUALS, SERVICE AGENCIES AND WARRANTIES TO THE OWNER UPON COMPLETION OF CONSTRUCTION.
29. THE ENTIRE ELECTRICAL SYSTEM WITHIN THIS SCOPE SHALL BE IN PROPER WORKING ORDER UPON COMPLETION OF CONSTRUCTION. ANY WORK, MATERIALS OR SYSTEMS SHOWING DEFECTS OR MALFUNCTION SHALL BE CORRECTED WITHOUT CHARGE WITHIN THE FIRST YEAR.

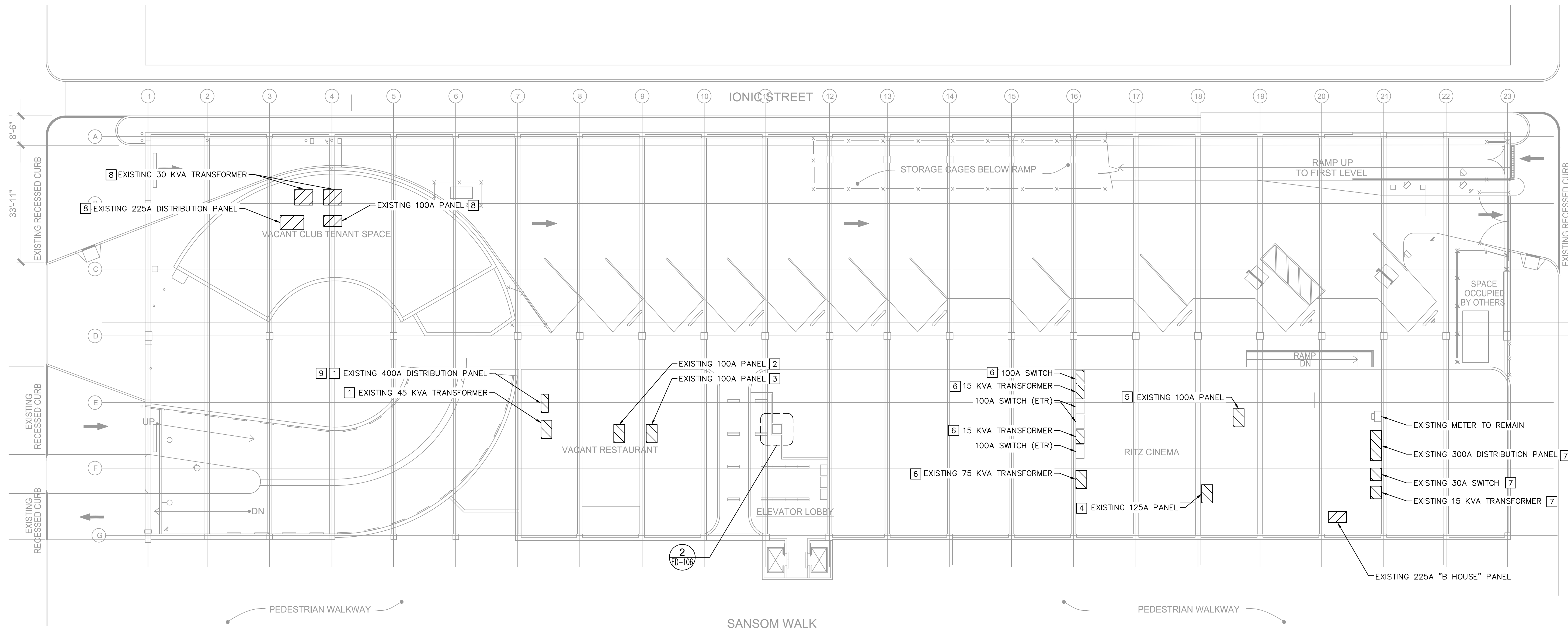
PPA GARAGE MAINTENANCE REPAIRS - OLD CITY PREPARED FOR PHILADELPHIA PARKING AUTHORITY PHILADELPHIA PENNSYLVANIA	SHEET NUMBER E-003		Kimley»Horn © 2024 KIMLEY-HORN AND ASSOCIATES, INC. 50 SOUTH 16TH ST, TWO LIBERTY PLACE SUITE 3300 PHILADELPHIA, PA 19102 PHONE: 267-687-0150 WWW.KIMLEY-HORN.COM	1	ADDENDUM #4	REVISION	07/29/24	JCS
				2	ADDENDUM #7	REVISION	08/16/24	JCS
				No.	REVISIONS		DATE	BY

LEGEND

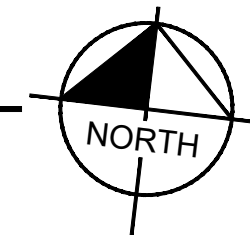
- | | |
|---|--|
|  | EQUIPMENT TO BE DEMOLISHED |
|  | GARAGE ELEVATOR ENTRANCE LIGHTING |
|  | FIRST FLOOR ELEVATOR ENTRANCE LIGHTING |
|  | FIRST FLOOR LOBBY LIGHTING |
|  | GARAGE LIGHTING |
|  | EXIT LIGHTING |

GENERAL NOTES:

1. LOCATION OF EQUIPMENT IN CLUB, RESTAURANT, AND CINEMA SPACES ARE APPROXIMATE. VERIFY EQUIPMENT LOCATIONS ON PRE-BID SITE WALKTHROUGH.
2. ALL EQUIPMENT TO BE REPLACED ONE-FOR-ONE UNLESS OTHERWISE NOTED.
3. ALL LIGHTS SHOWN ON THIS SHEET SHALL BE DEMOLISHED



ELECT DEMO PLAN - GROUND FLOOR



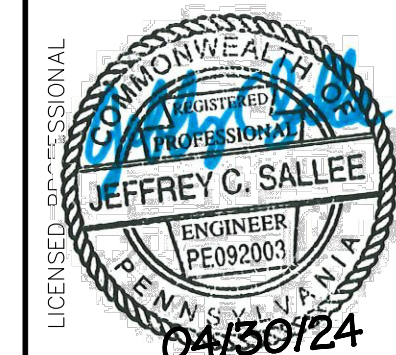
SHEET NOTES:

- | | | | |
|---|---|---|--|
| 1 | EQUIPMENT LOCATED IN UPSTAIRS HVAC ROOM BEHIND DUCT WORK. THIS EQUIPMENT ONLY – DE-ENERGIZE AND ABANDON IN PLACE AFTER REPLACEMENT EQUIPMENT HAS BEEN INSTALLED AND IS READY TO BE ENERGIZED. | 9 | PANEL TO BE GUTTED AND TURNED INTO JUNCTION BOX SO CIRCUITS CAN EXTEND TO NEW PANEL LOCATION |
| 2 | PANEL LOCATED IN KITCHEN. | | |
| 3 | PANEL LOCATED IN KITCHEN ADJACENT TO FIRE ALARM PANEL. | | |
| 4 | RITZ OFFICE PANEL | | |
| 5 | RECESSED PANEL AT CONCESSIONS STAND | | |
| 6 | EQUIPMENT LOCATED UNDER STAIRCASE. VERIFY CODE REQUIRED CLEARANCE IN FRONT OF EQUIPMENT PRIOR TO REPLACEMENT. | | |
| 7 | EQUIPMENT LOCATED BEHIND THEATER WALL | | |
| 8 | EQUIPMENT LOCATED IN CLUB TENANT ELECTRICAL ROOM. | | |

No.	ADDENDUM #	REVISIONS	DATE	BY
1	ADDENDUM #4	REVISION	07/29/24	JCS
2	ADDENDUM #7	REVISION	08/16/24	JCS

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KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
112359002	01/31/2024	AS SHOWN	JCS	LDH	LTM

ELECT DEMO PLAN -
GROUND FLOOR

PPA GARAGE MAINTENANCE
REPAIRS - OLD CITY
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PHILADELPHIA
PENNSYLVANIA

SHEET NUMBER
ED-100

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs - Old City Layout:ED-101 August 19, 2024 08:12:25am K:\VAB-SYSTEMS\Other_Regions\PPA\CADD\Plansheets\OLD_CITY\E-101.dwg
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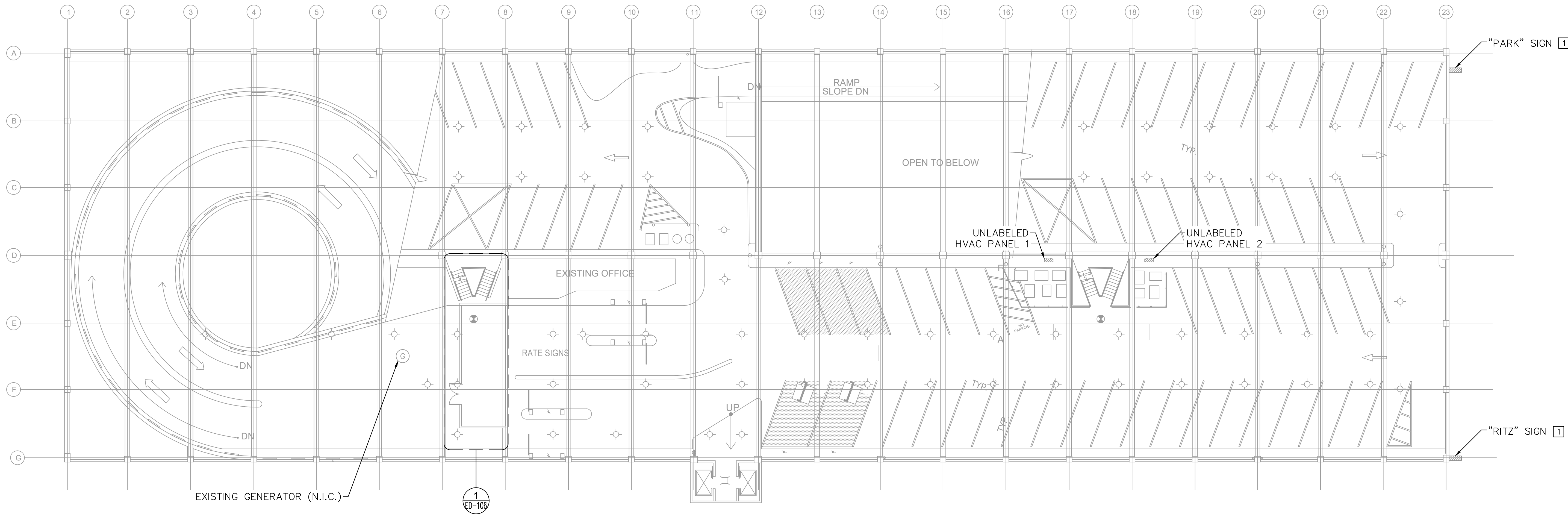
- EQUIPMENT TO BE DEMOLISHED
- GARAGE ELEVATOR ENTRANCE LIGHTING
- FIRST FLOOR ELEVATOR ENTRANCE LIGHTING
- FIRST FLOOR LOBBY LIGHTING
- GARAGE LIGHTING
- EXIT LIGHTING

GENERAL NOTES:

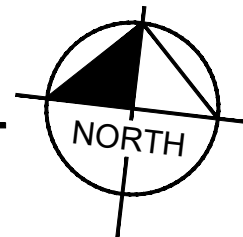
- ALL LIGHTS SHOWN ON THIS SHEET SHALL BE DEMOLISHED

SHEET NOTES:

- DEMOLISH SIGN. ENSURE EXISTING CONDUCTORS ARE IN GOOD CONDITION TO BE REUSED AT A LATER DATE. AFTER CONFIRMING CONDUCTORS CONDITION, CAP CONDUCTORS INSIDE JUNCTION BOX. IF CONDUCTORS CANNOT BE REUSED, NOTIFY EOR.

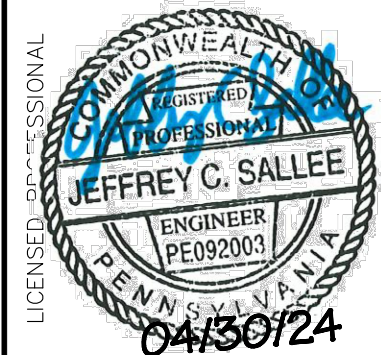


ELECT DEMO PLAN - SECOND FLOOR
1"=15'



1	ADDENDUM #4 REVISION	07/29/24	JCS
2	ADDENDUM #7 REVISION	08/16/24	JCS
No.	REVISIONS	DATE	BY

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DATE	01/31/2024
SCALE	AS SHOWN
DESIGNED BY	JCS
DRAWN BY	LDM
CHECKED BY	LTM

ELECT DEMO PLAN - SECOND FLOOR

PPA GARAGE MAINTENANCE
REPAIRS - OLD CITY
PREPARED FOR
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AUTHORITY
PHILADELPHIA
PENNSYLVANIA

SHEET NUMBER
ED-101

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs - Old City Layout:ED-102 August 19, 2024 08:12:30am K:\VAB-SYSTEMS\Other_Regions\PPA\CADD\PlanSheets\OLD_CITY\E-101.dwg

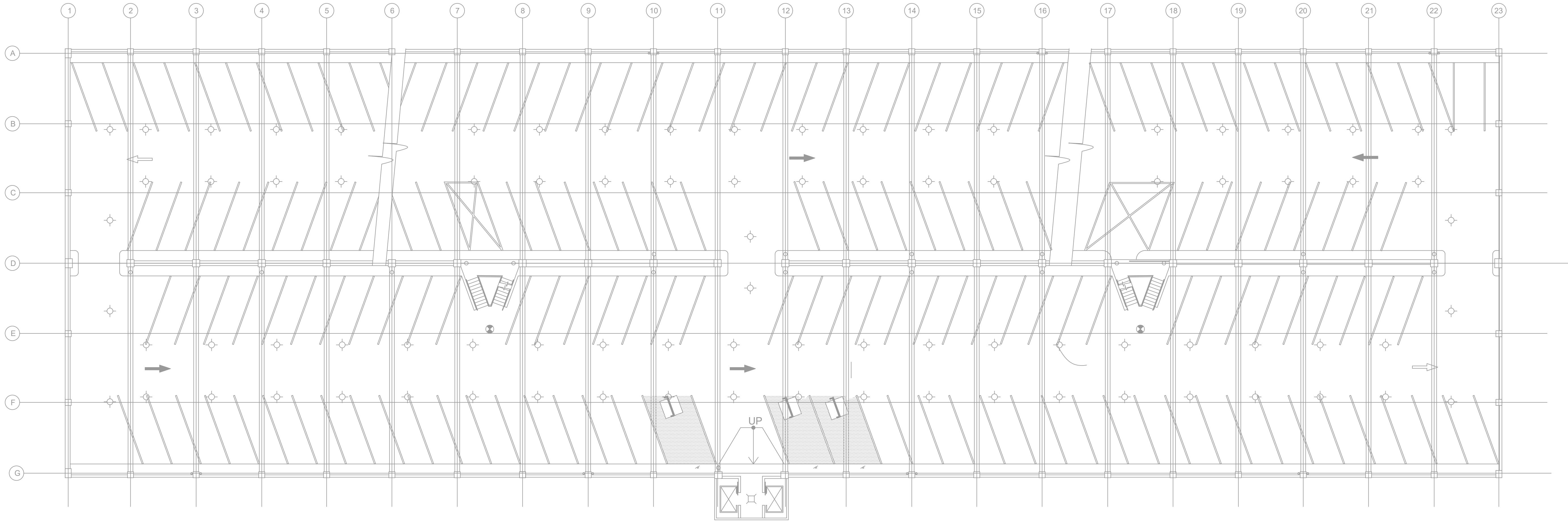
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LEGEND

- EQUIPMENT TO BE DEMOLISHED
- GARAGE ELEVATOR ENTRANCE LIGHTING
- FIRST FLOOR ELEVATOR ENTRANCE LIGHTING
- FIRST FLOOR LOBBY LIGHTING
- GARAGE LIGHTING
- EXIT LIGHTING

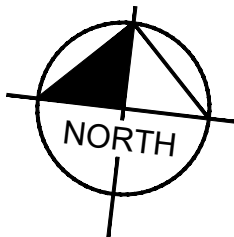
GENERAL NOTES:

- ALL LIGHTS SHOWN ON THIS SHEET SHALL BE DEMOLISHED



1
ED-102
1"=15'

ELECT DEMO PLAN - THIRD FLOOR



PPA GARAGE MAINTENANCE
REPAIRS - OLD CITY
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PHILADELPHIA
PENNSYLVANIA

SHEET NUMBER
ED-102

KHA PROJECT
112359002
DATE
01/31/2024
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
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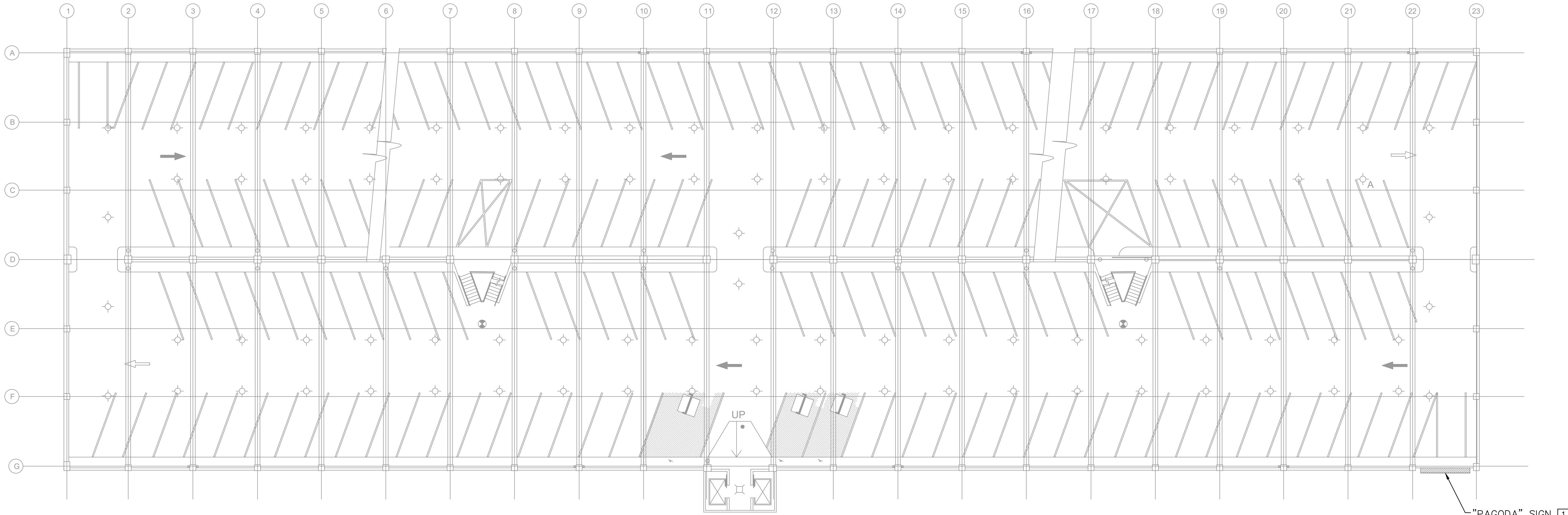
1	ADDENDUM #4 REVISION	07/29/24	JCS
2	ADDENDUM #7 REVISION	08/16/24	JCS
No.	REVISIONS	DATE	BY

Plotted By: Erwin, Weston Sheet Set: PPA Garage Maintenance Repairs - Old City Layout: ED-103 August 19, 2024 08:12:35am K:\VAB-SYSTEMS\Other_Regions\PPA\GADD\Plansheets\OLD_CITY\ED-103.dwg
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LEGEND

- EQUIPMENT TO BE DEMOLISHED
- GARAGE ELEVATOR ENTRANCE LIGHTING
- FIRST FLOOR ELEVATOR ENTRANCE LIGHTING
- FIRST FLOOR LOBBY LIGHTING
- GARAGE LIGHTING
- EXIT LIGHTING

- GENERAL NOTES:
1. ALL LIGHTS SHOWN ON THIS SHEET SHALL BE DEMOLISHED
- SHEET NOTES:
- 1 DEMOLISH SIGN. ENSURE EXISTING CONDUCTORS ARE IN GOOD CONDITION TO BE REUSED AT A LATER DATE. AFTER CONFIRMING CONDUCTORS CONDITION, CAP CONDUCTORS INSIDE JUNCTION BOX. IF CONDUCTORS CANNOT BE REUSED, NOTIFY EOR.



1
ED-103
1"=15'

ELECT DEMO PLAN - FOURTH FLOOR

NORTH

PPA GARAGE MAINTENANCE REPAIRS - OLD CITY PREPARED FOR PHILADELPHIA PARKING AUTHORITY PHILADELPHIA PENNSYLVANIA	SHEET NUMBER ED-103	ELECT DEMO PLAN - FOURTH FLOOR		 JEFFREY C. SALLEE ENGINEER PE092003 04350724	 © 2024 KIMLEY-HORN AND ASSOCIATES, INC. 50 SOUTH 16TH ST, TWO LIBERTY PLACE SUITE 3300 PHILADELPHIA, PA 19102 PHONE: 267-687-0150 WWW.KIMLEY-HORN.COM	1 2	ADDENDUM #4 REVISION	07/29/24	JCS
		ADDENDUM #7 REVISION	08/16/24				JCS		
REVISIONS						No.	DATE	BY	

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs - Old City Layout:ED-104 August 19, 2024 08:12:40pm K:\VAB-SYSTEMS\Other_Regions\PPA\GADD\Plansheets\OLD_CITY\ED-104.dwg
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LEGEND

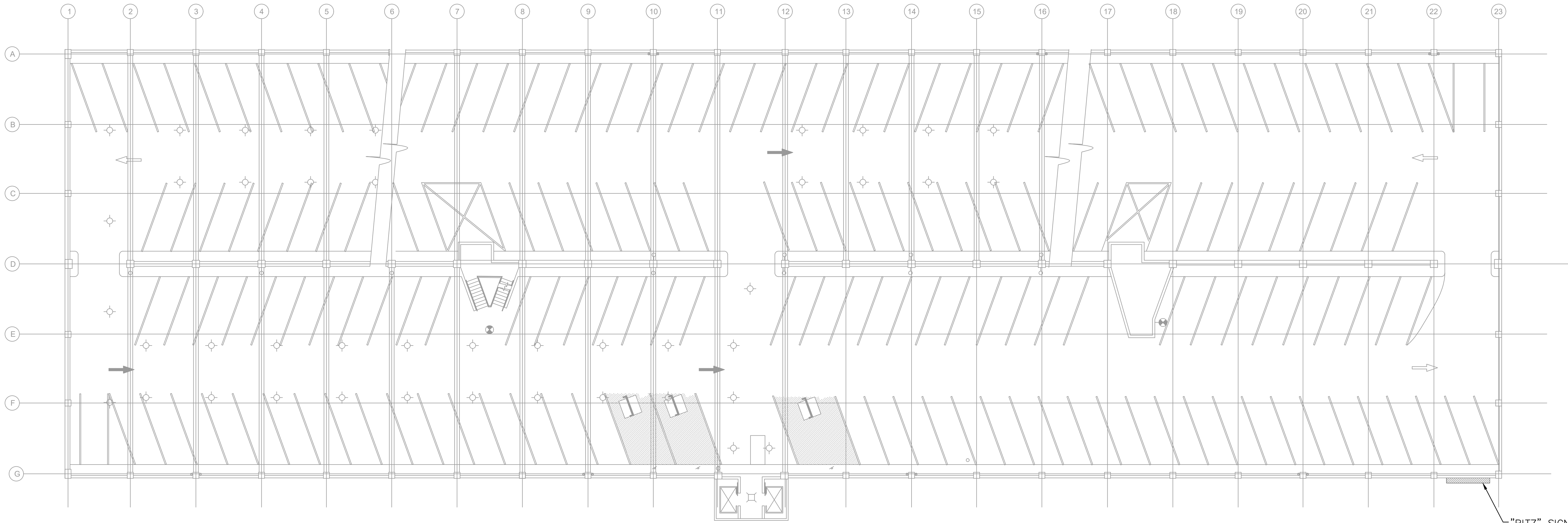
- EQUIPMENT TO BE DEMOLISHED
- GARAGE ELEVATOR ENTRANCE LIGHTING
- FIRST FLOOR ELEVATOR ENTRANCE LIGHTING
- FIRST FLOOR LOBBY LIGHTING
- GARAGE LIGHTING
- EXIT LIGHTING

GENERAL NOTES:

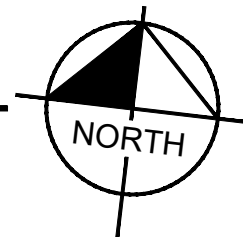
- ALL LIGHTS SHOWN ON THIS SHEET SHALL BE DEMOLISHED

SHEET NOTES:

- DEMOLISH SIGN. ENSURE EXISTING CONDUCTORS ARE IN GOOD CONDITION TO BE REUSED AT A LATER DATE. AFTER CONFIRMING CONDUCTORS CONDITION, CAP CONDUCTORS INSIDE JUNCTION BOX. IF CONDUCTORS CANNOT BE REUSED, NOTIFY EOR.



1
ED-104
ELECT DEMO PLAN - FIFTH FLOOR
1"=15'



"RITZ" SIGN 1

PPA GARAGE MAINTENANCE
REPAIRS - OLD CITY
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PHILADELPHIA
PENNSYLVANIA

ELECT DEMO PLAN - FIFTH FLOOR







KHA PROJECT
112359002
DATE
01/31/2024
SCALE AS SHOWN
DESIGNED BY JCS
DRAWN BY LDH
CHECKED BY LTM



Kimley»Horn
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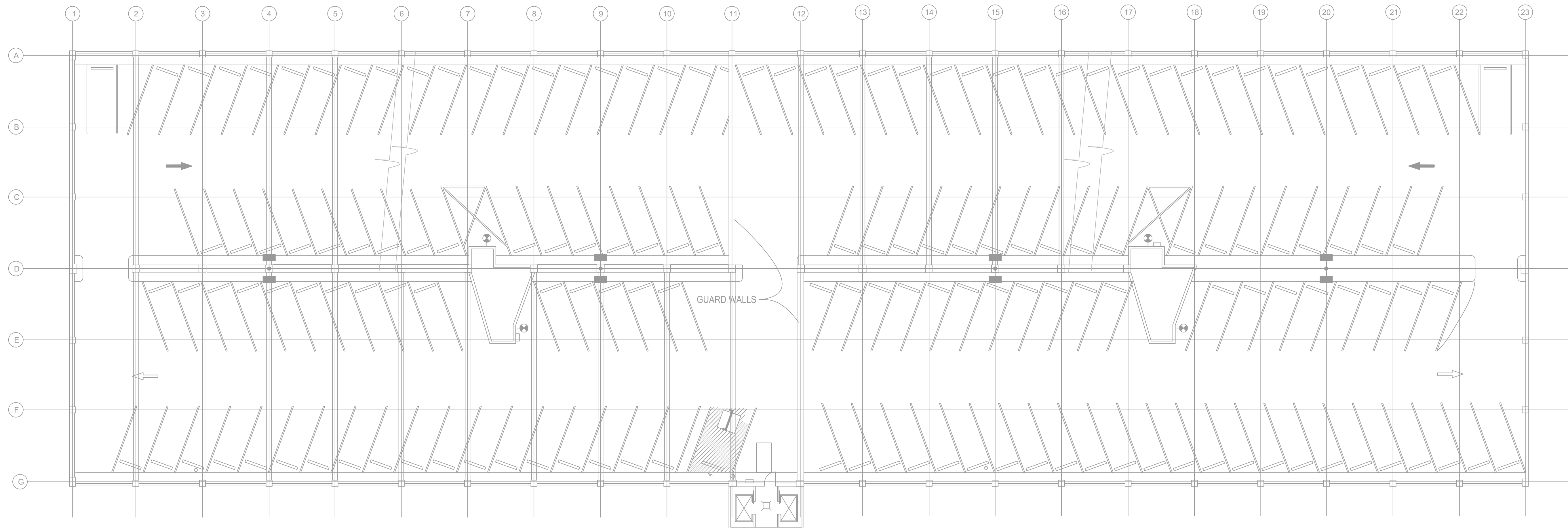
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2	ADDENDUM #7 REVISION	08/16/24	JCS
No.	REVISIONS	DATE	BY

LEGEND

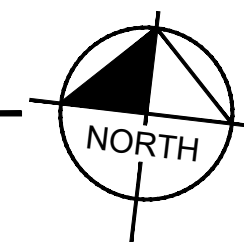
- | | |
|---|--|
|  | EQUIPMENT TO BE DEMOLISHED |
|  | GARAGE ELEVATOR ENTRANCE LIGHTING |
|  | FIRST FLOOR ELEVATOR ENTRANCE LIGHTING |
|  | FIRST FLOOR LOBBY LIGHTING |
|  | GARAGE LIGHTING |
|  | EXIT LIGHTING |


GENERAL NOTES:

1. ALL LIGHTS SHOWN ON THIS SHEET SHALL BE DEMOLISHED. EXISTING LIGHT POLES TO REMAIN.



1 **ELECT DEMO PLAN - ROOF**
ED-105 1"=15'

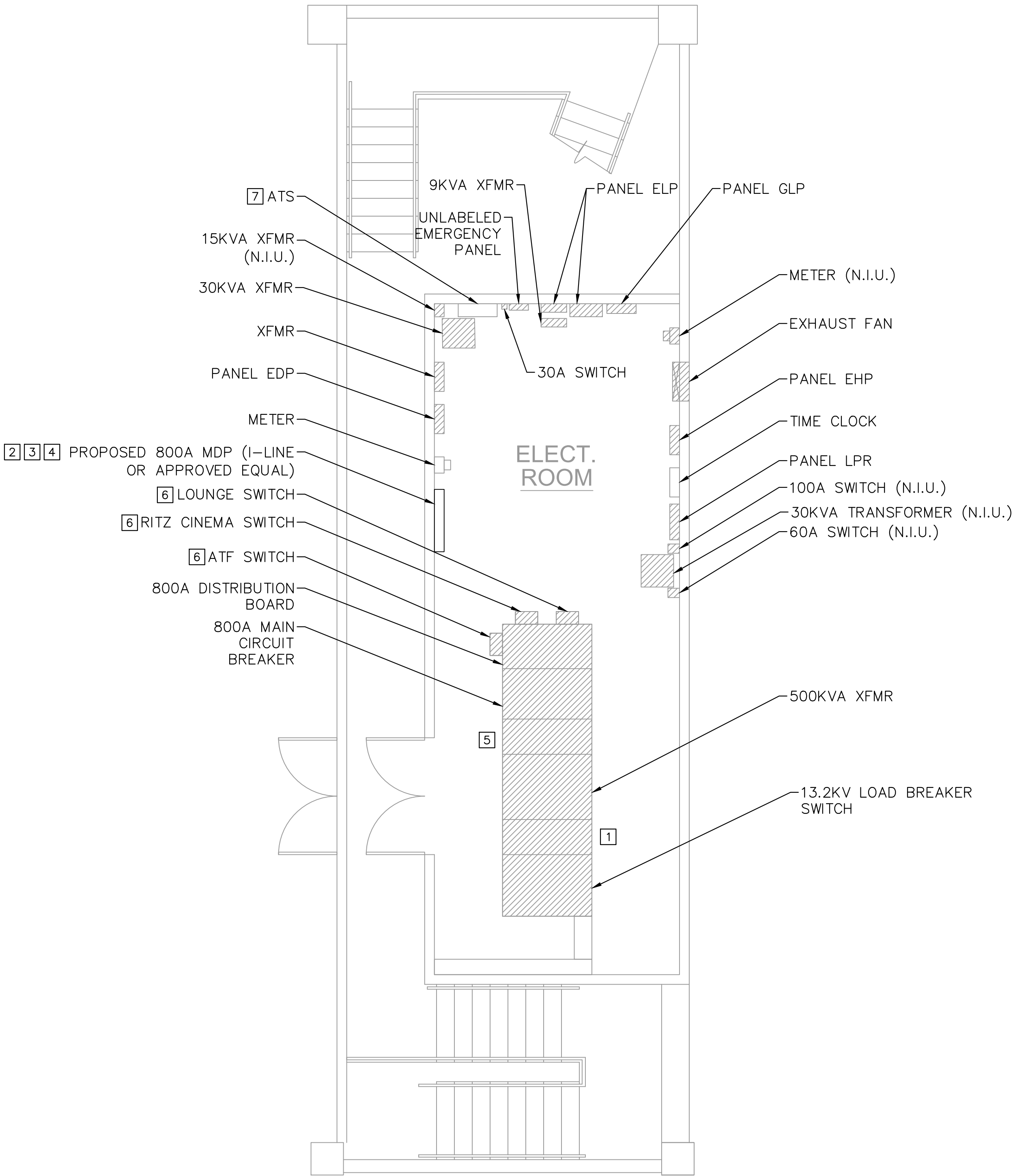


PPA GARAGE MAINTENANCE REPAIRS - OLD CITY PREPARED FOR PHILADELPHIA PARKING AUTHORITY PHILADELPHIA PENNSYLVANIA		SHEET NUMBER ED-105		ELECT DEMO PLAN - ROOF		KHA PROJECT 112359002 DATE 01/31/2024 SCALE AS SHOWN DESIGNED BY JCS DRAWN BY LDH CHECKED BY LTM		 <p>LICENSED PROFESSIONAL ENGINEER JEFFREY C. SALLEE PENNSYLVANIA 04130724</p>		<p>Kimley»Horn</p> <p>© 2024 KIMLEY-HORN AND ASSOCIATES, INC. 50 SOUTH 16TH ST. TWO LIBERTY PLACE SUITE 3300 PHILADELPHIA, PA 19102 PHONE: 267-687-0150 WWW.KIMLEY-HORN.COM</p>		<table><tr><td>1</td><td>ADDENDUM #4</td><td>REVISION</td><td>07/29/24</td><td>JCS</td></tr><tr><td>2</td><td>ADDENDUM #7</td><td>REVISION</td><td>08/16/24</td><td>JCS</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td>No.</td><td></td><td>REVISIONS</td><td>DATE</td><td>BY</td></tr></table>		1	ADDENDUM #4	REVISION	07/29/24	JCS	2	ADDENDUM #7	REVISION	08/16/24	JCS																					No.		REVISIONS	DATE	BY
1	ADDENDUM #4	REVISION	07/29/24	JCS																																												
2	ADDENDUM #7	REVISION	08/16/24	JCS																																												
No.		REVISIONS	DATE	BY																																												

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs - Old City Layout:ED-106 August 19, 2024 08:12:52am K:\VAB-SYSTEMS\Other_Regions\PPA\GADD\Plansheets\OLD_CITY\E-101.dwg This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

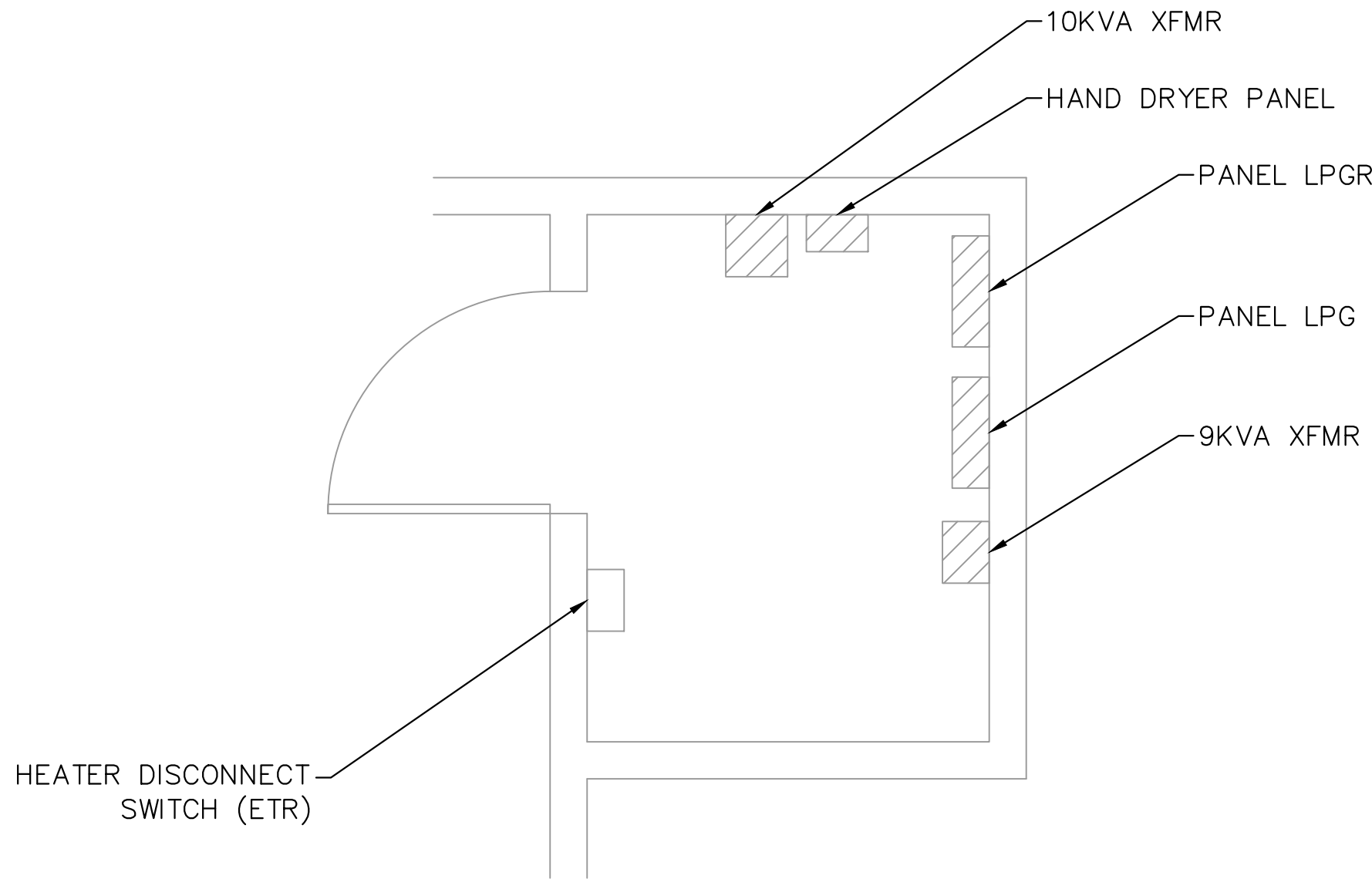
LEGEND

- EQUIPMENT TO BE DEMOLISHED
- N.I.U. NOT IN USE



1 ENLARGED ELECTRICAL ROOM
ED-106 1"=4'

- GENERAL NOTES:
- EQUIPMENT TO BE DEMOLISHED SHALL BE TURNED OVER TO PPA. IF PPA DOES NOT WANT EQUIPMENT, THE EQUIPMENT SHALL BECOME CONTRACTOR'S PROPERTY AND RESPONSIBILITY TO REMOVE FROM THE SITE.



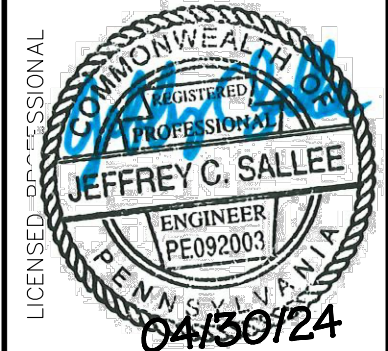
2 JANITOR CLOSET
ED-106 1"=2'

- SHEET NOTES:
- CONTRACTOR SHALL PROVIDE A TEMPORARY GENERATOR FOR DEMOLITION OF SERVICE EQUIPMENT UNTIL ENERGIZATION OF NEW SERVICE EQUIPMENT. TEMPORARY GENERATOR SHALL BE 600KW, 480Y/277V.
 - PRIOR TO EQUIPMENT DEMOLITION, INSTALL NEW 800A MDP.
 - WIRE ALL PANELS AND DISCONNECT SWITCHES FROM MDP TO EQUIPMENT LOCATIONS.
 - CONNECT MDP TO TEMPORARY GENERATOR. AS PANELS ARE REPLACED, TURN ON BREAKERS AT MDP TO POWER THE PANELS.
 - AFTER ALL LOADS ARE TRANSITIONED FROM THE EXISTING 800A DISTRIBUTION BOARD, DEMOLISH SWITCHGEAR. DO NOT DEMOLISH SWITCHGEAR LINEUP UNTIL NEW 15KV SWITCH AND 500KVA TRANSFORMER ARE ON SITE.
 - SWITCH WILL BE DEMOLISHED AND REPLACED WITH CIRCUIT BREAKER OF SAME AMPERAGE RATING ON PROPOSED MDP.
 - VERIFY WITH PPA THAT ATS WAS REPLACED WITH GENERATOR.
 - COORDINATE SERVICE SHUTDOWN WITH PECO AT LEAST 30 DAYS IN ADVANCE.

1	ADDENDUM #4 REVISION	JCS
2	ADDENDUM #7 REVISION	JCS
No.	REVISIONS	DATE
		BY

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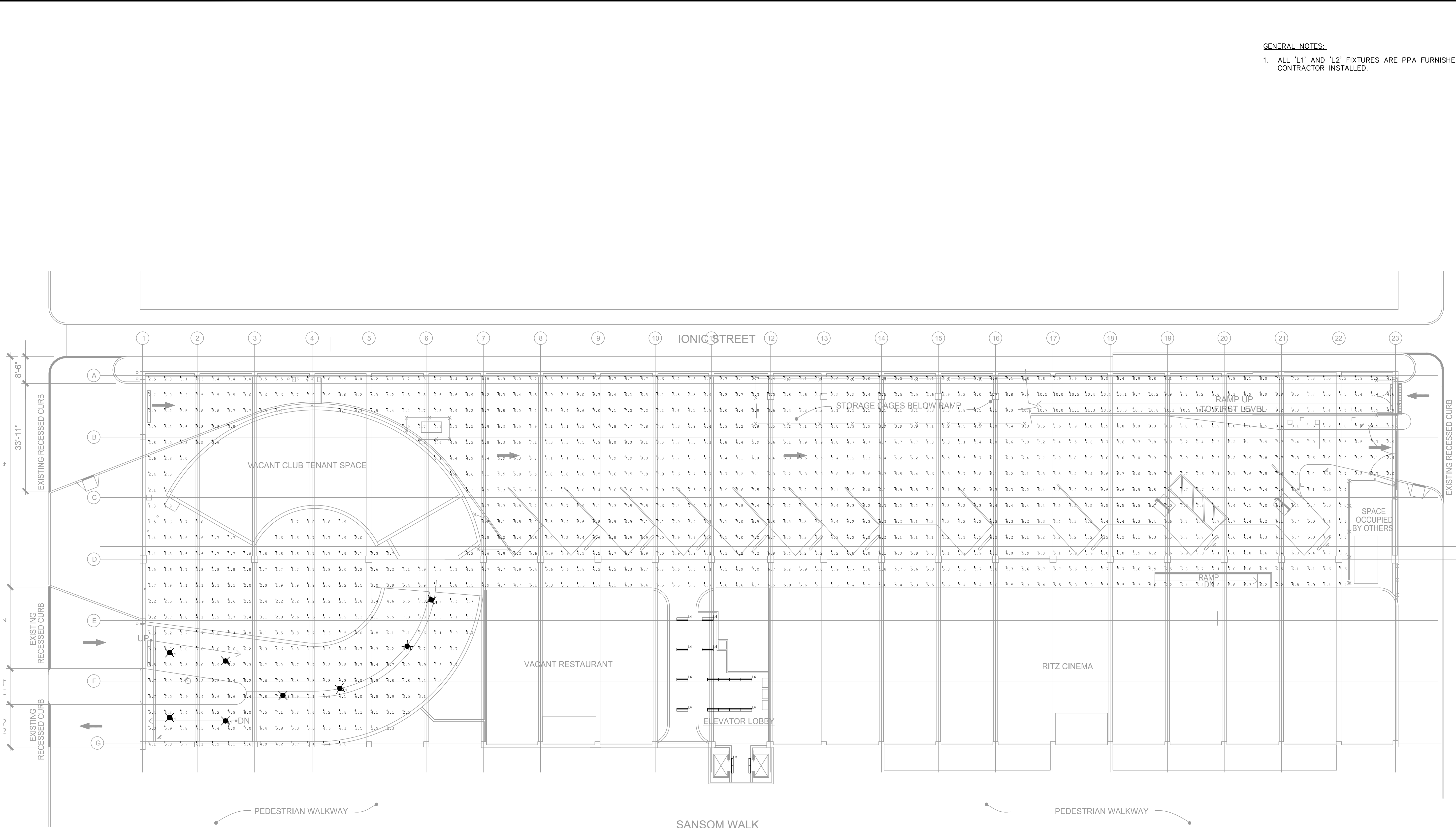


KHA PROJECT	112359002
DATE	01/31/2024
SCALE	AS SHOWN
DESIGNED BY	JCS
DRAWN BY	LDM
CHECKED BY	LTM

ELECT DEMO PLAN -
ENLARGED ELECT
ROOMS

PPA GARAGE MAINTENANCE
REPAIRS - OLD CITY
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PENNSYLVANIA

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs - Old City Layout:E-200 August 19, 2024 08:13:06am K:\VAB\SYSTEMS\Other Regions\PPA\CADD\Plansheets\OLD CITY\E-201.dwg
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LUMINAIRE SCHEDULE							
SYMBOL	LABEL	QTY	ARRANGEMENT	DESCRIPTION	TOTAL ARR. WATTS	TOTAL ARR. LUMENS	LLF
	L1	56	SINGLE	STONCO GCR60-SCT-G1-SM-5-10-BZ	37.8	5852	0.85
	L3	4	SINGLE	COOPER WN-428T5-277V-CRA	28.0	2600	0.85
	L4	14	SINGLE	ALCON 12100-66-RTL-D-D24-CRX-50K-010-WH-8	24.0	2900	0.85

Label	Type	Average	Maximum	Minimum	Max/Min
Ground Level	Illuminance (FC)	5.7	11.3	1.4	8.07
Ground Level Parking	Illuminance (FC)	5.9	10.8	1.9	5.68
Pedestrian Ramp Up	Illuminance (FC)	8.66	11.3	4.1	2.76
Pedestrian Walking Area	Illuminance (FC)	5.89	7.3	4.4	1.66
Ramp Entrance	Illuminance (FC)	6.51	8.6	3.4	2.53

LIGHTING SUMMARY TABLE

- GENERAL NOTES:
- ALL 'L1' AND 'L2' FIXTURES ARE PPA FURNISHED, CONTRACTOR INSTALLED.

PPA GARAGE MAINTENANCE REPAIRS - OLD CITY
PREPARED FOR
PHILADELPHIA PARKING AUTHORITY
PHILADELPHIA, PENNSYLVANIA

SHEET NUMBER
E-200

PHOTOMETRICS -
GROUND FLOOR

PHILADELPHIA PARKING AUTHORITY

KHA PROJECT
112359002

DATE
01/31/2024

SCALE AS SHOWN

DESIGNED BY JCS

DRAWN BY LDH

CHECKED BY LTM

JEFFREY C. SALLEE
ENGINEER
PE0928003
04350124

Licensed Professional Engineer
State of Pennsylvania

Kimley»Horn

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ADDENDUM #4 REVISION
07/29/24 JCS

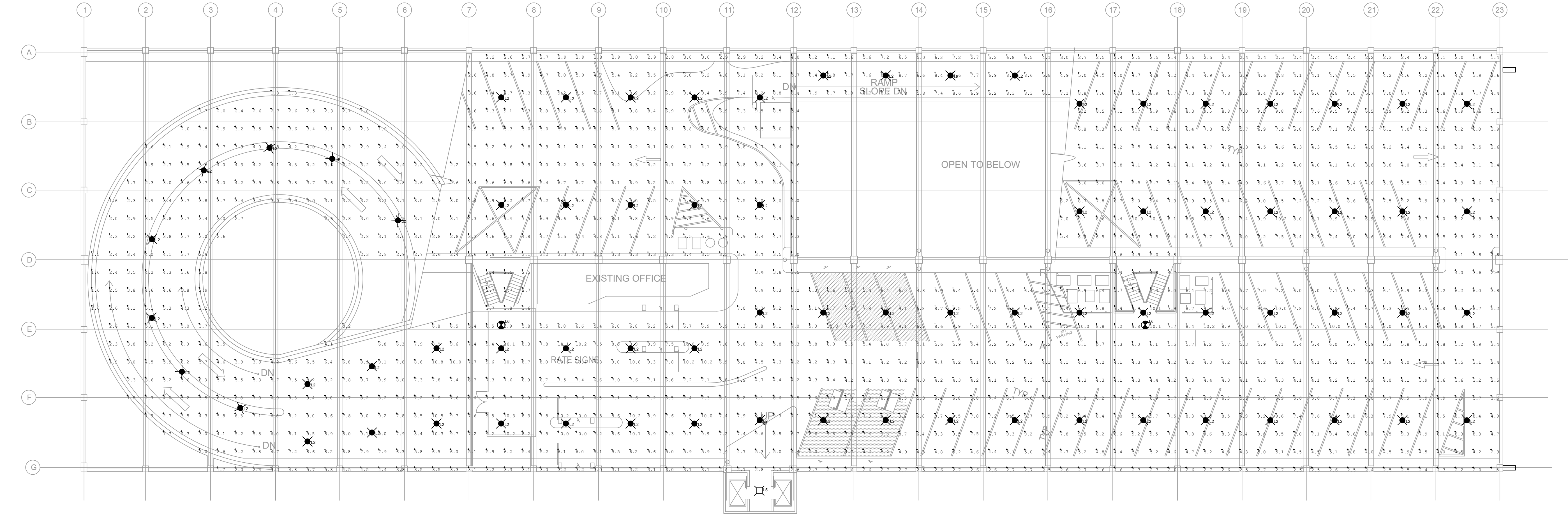
ADDENDUM #7 REVISION
08/16/24 JCS

REVISIONS

DATE

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs - Old City Layout:E-201 August 19, 2024 08:13:11am K:\VAB-SYSTEMS\Other-Regions\PPA-CADD\Plansheets\OLD CITY-E-201.dwg

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LUMINAIRE SCHEDULE						
SYMBOL	LABEL	QTY	ARRANGEMENT	DESCRIPTION	TOTAL ARR. WATTS	TOTAL ARR. LUMENS
	L2	74	SINGLE	STONCO GCR60-SCT-G1-SM-5-10-BZ	27.3	4272
	L5	1	SINGLE	LITHONIA CNY-LED-P0-50K-MVOLT-DDB	27.0	3500
	L6	2	SINGLE	EXIT LIGHT CO. WLT-R-W-S-AC-CW	16.0	N/A

Label	Type	Average	Maximum	Minimum	Max/Min
Level 2	III Illuminance (FC)	5.73	10.8	1.4	7.71
Parking	III Illuminance (FC)	6.03	10.8	1.4	7.71
Pedestrian Stairs_1	III Illuminance (FC)	2.96	3.8	2.4	1.58
Pedestrian Stairs_2	III Illuminance (FC)	6.66	10.1	4.4	2.3
Ramp_Down	III Illuminance (FC)	6.83	9.2	3	3.07
Spiral_Ramp	III Illuminance (FC)	3.5	7.1	1.5	4.73

LIGHTING SUMMARY TABLE



- GENERAL NOTES:
- ALL 'L1' AND 'L2' FIXTURES ARE PPA FURNISHED, CONTRACTOR INSTALLED.

1	ADDENDUM #4 REVISION	JCS	07/29/24	JCS
2	ADDENDUM #7 REVISION	JCS	08/16/24	JCS
No.	REVISIONS	DATE	BY	

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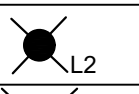
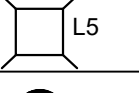

KHA PROJECT	112359002
DATE	01/31/2024
SCALE	AS SHOWN
DESIGNED BY	JCS
DRAWN BY	LDH
CHECKED BY	LTM

PPA GARAGE MAINTENANCE
REPAIRS - OLD CITY
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PHILADELPHIA
PENNSYLVANIA

PHOTOMETRICS -
SECOND FLOOR

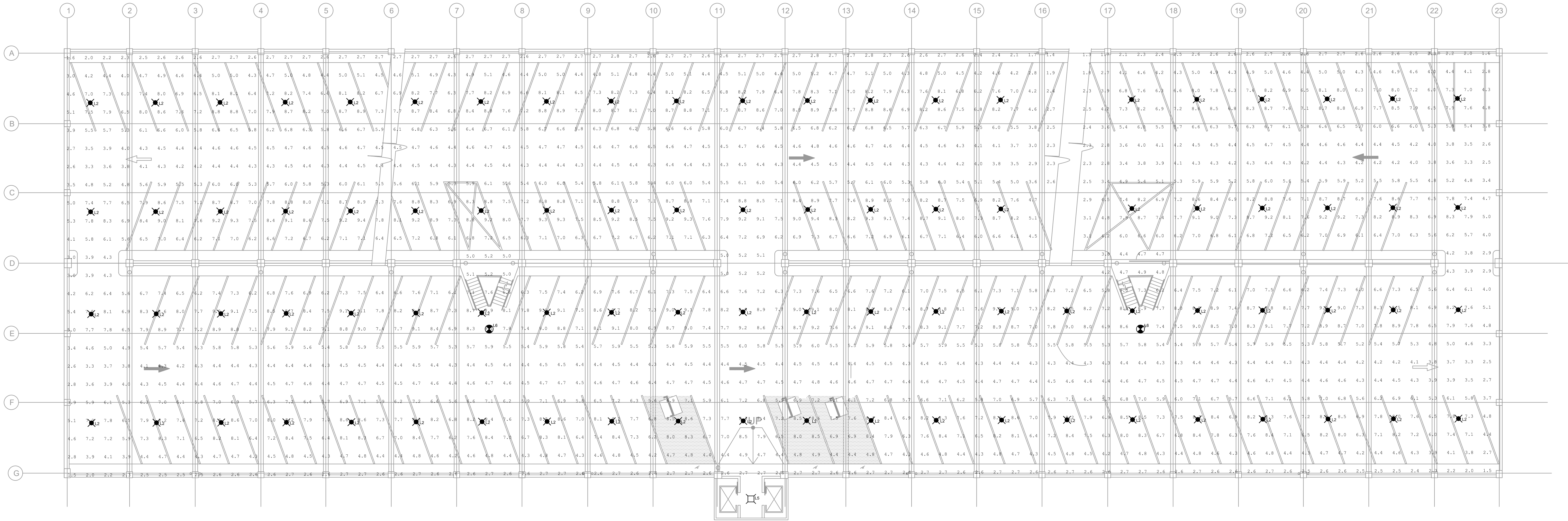
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E-201

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LUMINAIRE SCHEDULE						
SYMBOL	LABEL	QTY	ARRANGEMENT	DESCRIPTION	TOTAL ARR. WATTS	TOTAL ARR. LUMENS
	L2	86	SINGLE	STONCO GCR60-SCT-G1-SM-5-10-BZ	27.3	4272
	L5	1	SINGLE	LITHONIA CNY-LED-P0-50K-MVOLT-DDB	27.0	3500
	L6	2	SINGLE	EXIT LIGHT CO. WLT-R-W-S-AC-CW	16.0	N/A

Label	Type	Average	Maximum	Minimum	Max/Min
Level 3	Illuminance (FC)	5.85	9.4	1.3	7.23
Parking	Illuminance (FC)	5.85	9.4	1.3	7.23
Stairs_1	Illuminance (FC)	6.52	8.9	5	1.78
Stairs_2	Illuminance (FC)	5.94	8.9	3.8	2.34

LIGHTING SUMMARY TABLE



PPA GARAGE MAINTENANCE
REPAIRS - OLD CITY
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY

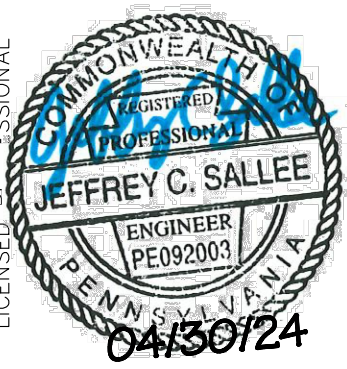
PHILADELPHIA
PENNSYLVANIA

SHEET NUMBER
E-202


PHOTOMETRICS -
THIRD FLOOR

DATE
01/31/2024
SCALE AS SHOWN
DESIGNED BY JCS
DRAWN BY LDH
CHECKED BY LTM

PHOTOMETRICS -
THIRD FLOOR



JEFFREY C. SALLEE
ENGINEER
PE0928003
041560124



Kimley»Horn

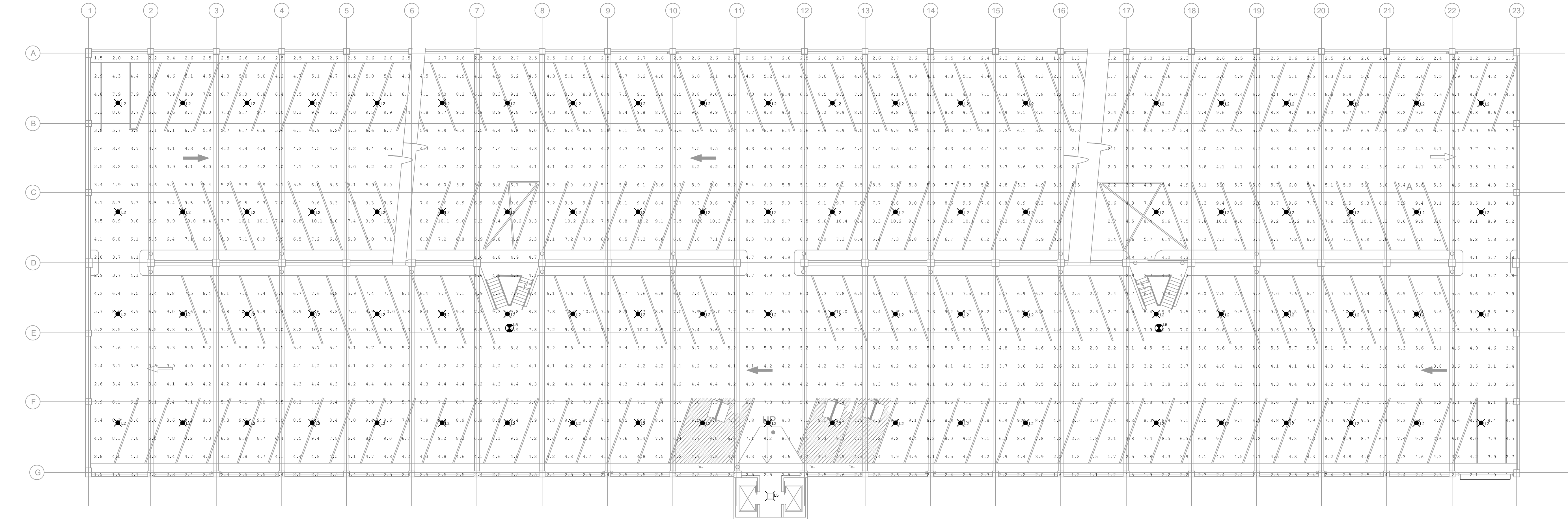
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ADDENDUM #4 REVISION
07/29/24 JCS

ADDENDUM #7 REVISION
08/16/24 JCS

REVISIONS

No. DATE BY



LUMINAIRE SCHEDULE						
SYMBOL	LABEL	QTY	ARRANGEMENT	DESCRIPTION	TOTAL ARR. WATTS	TOTAL ARR. LUMENS
	L2	84	SINGLE	STONCO GCR60-SCT-G1-SM-5-10-BZ	27.3	4272
	L5	1	SINGLE	LITHONIA CNY-LED-P0-50K-MVOLT-DDB	27.0	3500
	L6	2	SINGLE	EXT LIGHT CO. WLT-R-W-S-AC-CW	16.0	N/A

Label	Type	Average	Maximum	Minimum	Max/Min
Level 4	Illuminance (FC)	5.8	10.4	1.1	9.45
Parking	Illuminance (FC)	5.8	10.4	1.1	9.45
Stairs_1	Illuminance (FC)	6.24	9.8	4.6	2.13
Stairs_2	Illuminance (FC)	5.16	9.3	2.9	3.21

LIGHTING SUMMARY TABLE



- GENERAL NOTES:
- ALL 'L1' AND 'L2' FIXTURES ARE PPA FURNISHED, CONTRACTOR INSTALLED.

PPA GARAGE MAINTENANCE REPAIRS - OLD CITY
PREPARED FOR
PHILADELPHIA PARKING AUTHORITY
PHILADELPHIA, PENNSYLVANIA

SHEET NUMBER
E-203

PHOTOMETRICS -
FOURTH FLOOR

DATE
01/31/2024
SCALE
AS SHOWN
DESIGNED BY
JCS
DRAWN BY
LDH
CHECKED BY
LTM

JEFFREY C. SALLEE
ENGINEER
PE092803
041506124

KIMLEY-HORN AND ASSOCIATES, INC.
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ADDENDUM #4 REVISION
07/29/24 JCS

ADDENDUM #7 REVISION
08/16/24 JCS

REVISIONS

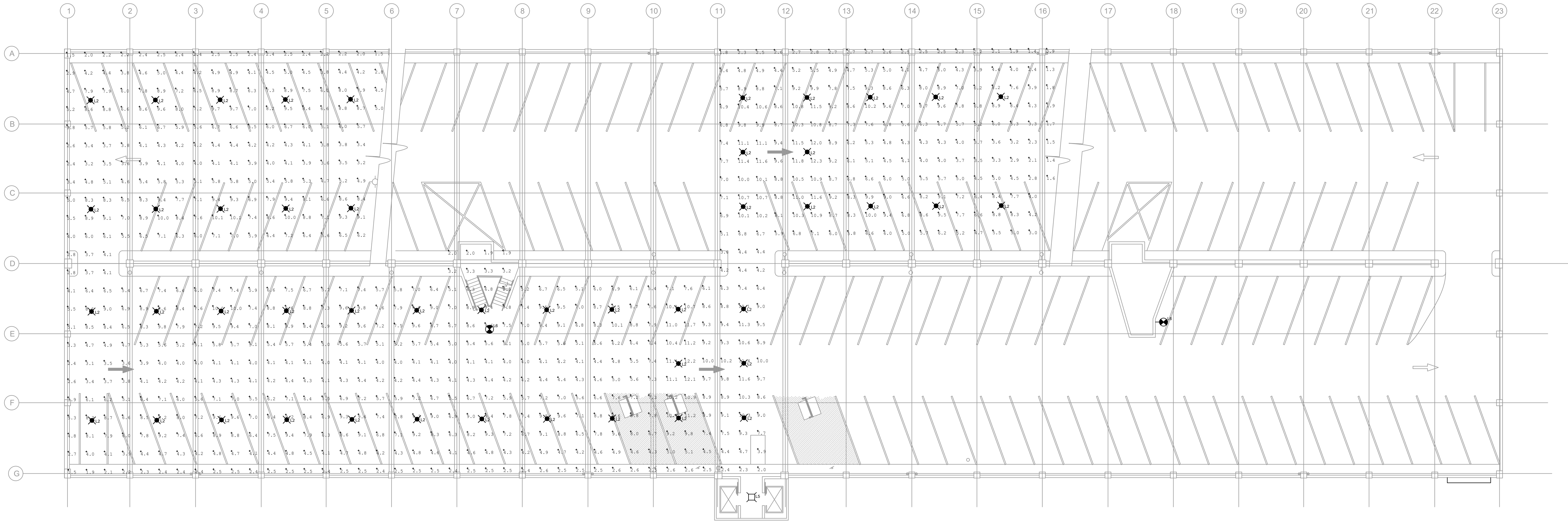
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LUMINAIRE SCHEDULE						
SYMBOL	LABEL	QTY	ARRANGEMENT	DESCRIPTION	TOTAL ARR. WATTS	TOTAL ARR. LUMENS
	L2	46	SINGLE	STONCO GCR60-SCT-G1-SM-5-10-BZ	27.3	4272
	L5	1	SINGLE	LITHONIA CNY-LED-P0-50K-MVOLT-DDB	27.0	3500
	L6	2	SINGLE	EXIT LIGHT CO. WLT-R-W-S-AC-CW	16.0	N/A

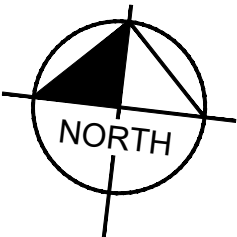
Label	Type	Average	Maximum	Minimum	Max/Min
Level 5	Illuminance (FC)	6.19	12.3	0.9	13.67
Parking	Illuminance (FC)	6.19	12.3	0.9	13.67
Stairs	Illuminance (FC)	4.85	9.4	1.9	4.95

LIGHTING SUMMARY TABLE



1
E-204
1"=15'

PHOTOMETRICS - FIFTH FLOOR



GENERAL NOTES:

1. ALL 'L1' AND 'L2' FIXTURES ARE PPA FURNISHED, CONTRACTOR INSTALLED.

PPA GARAGE MAINTENANCE
REPAIRS - OLD CITY
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PHILADELPHIA

SHEET NUMBER
E-204

PHOTOMETRICS -
FIFTH FLOOR

PHILADELPHIA
PENNSYLVANIA

KHA PROJECT
112359002


DATE
01/31/2024


SCALE AS SHOWN

DESIGNED BY JCS

DRAWN BY LDH

CHECKED BY LTM




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ADDENDUM #4 REVISION
ADDENDUM #7 REVISION


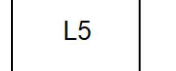
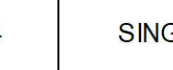
07/29/24 JCS
08/16/24 JCS

REVISIONS

DATE

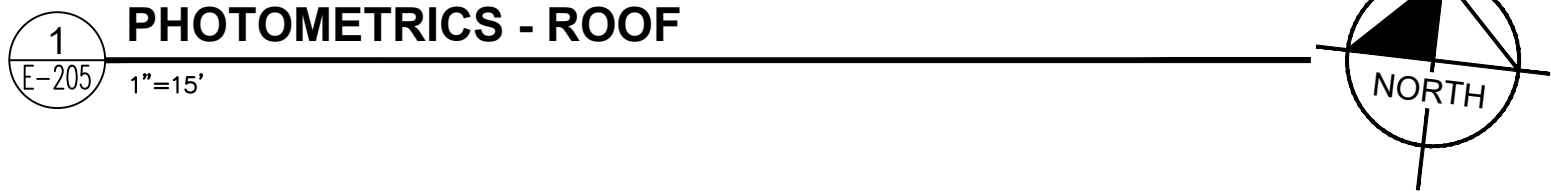
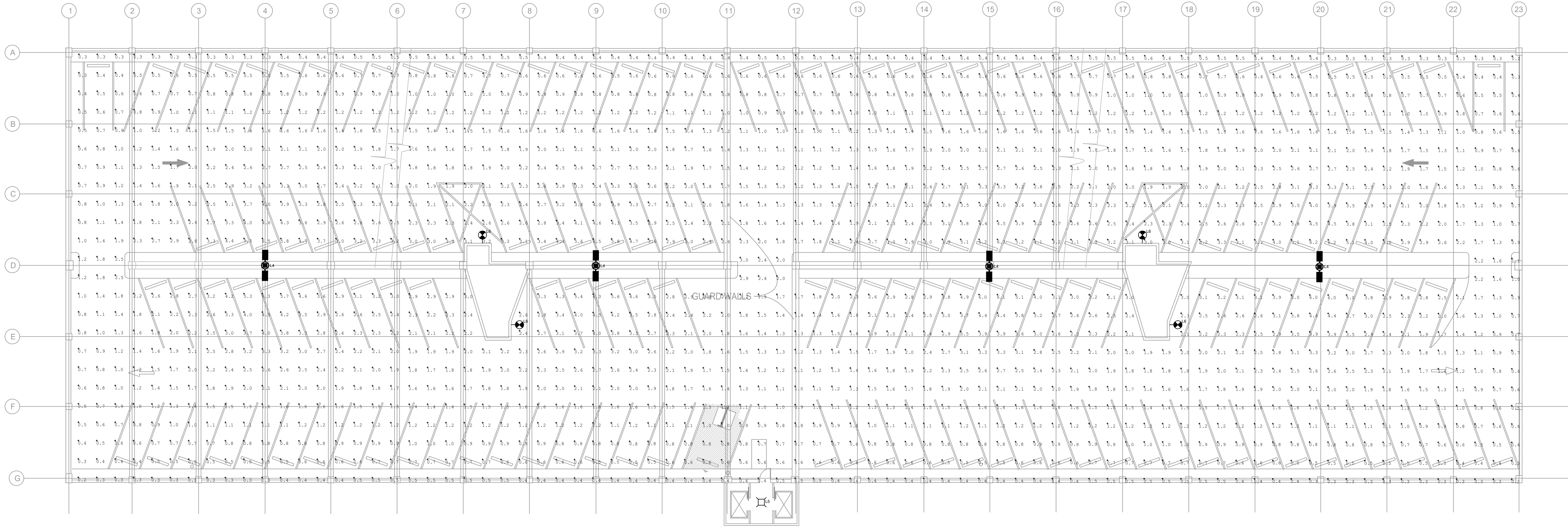
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LUMINAIRE SCHEDULE							
SYMBOL	LABEL	QTY	ARRANGEMENT	DESCRIPTION	TOTAL ARR. WATTS	TOTAL ARR. LUMENS	BUG RATING
	L7	4	BACK-TO-BACK	GLEON-SA2C-740-U-T4W	226.0	28742	0.85
	L5	1	SINGLE	LITHONIA CNY-LED-P0-50K-MVOLT-DDB	27.0	3500	0.85
	L6	4	SINGLE	EXIT LIGHT CO. WLT-R-W-S-AC-CW	16.0	N/A	N/A

Label	Type	Average	Maximum	Minimum	Max/Min
Roof Level	Illuminance (Fc)	1.68	6.5	0.2	32.5

LIGHTING SUMMARY TABLE



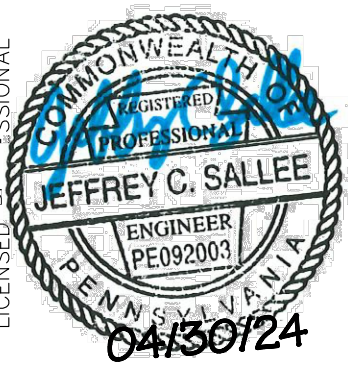
1
E-205
PHOTOMETRICS - ROOF
1"=15'

PPA GARAGE MAINTENANCE
REPAIRS - OLD CITY
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PHILADELPHIA
PENNSYLVANIA


SHEET NUMBER
E-205

PHOTOMETRICS -
ROOF

SCALE AS SHOWN
DATE 01/31/2024
DESIGNED BY JCS
DRAWN BY LDH
CHECKED BY LTM



JEFFREY C. SALLEE
ENGINEER
PE0928003
04150124



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50 SOUTH 16TH ST., TWO LIBERTY PLACE SUITE 3300
PHILADELPHIA, PA 19102
PHONE: 267-687-0150
WWW.KIMLEY-HORN.COM

1	ADDENDUM #4 REVISION	07/29/24	JCS
2	ADDENDUM #7 REVISION	08/16/24	JCS
No.	REVISIONS	DATE	BY

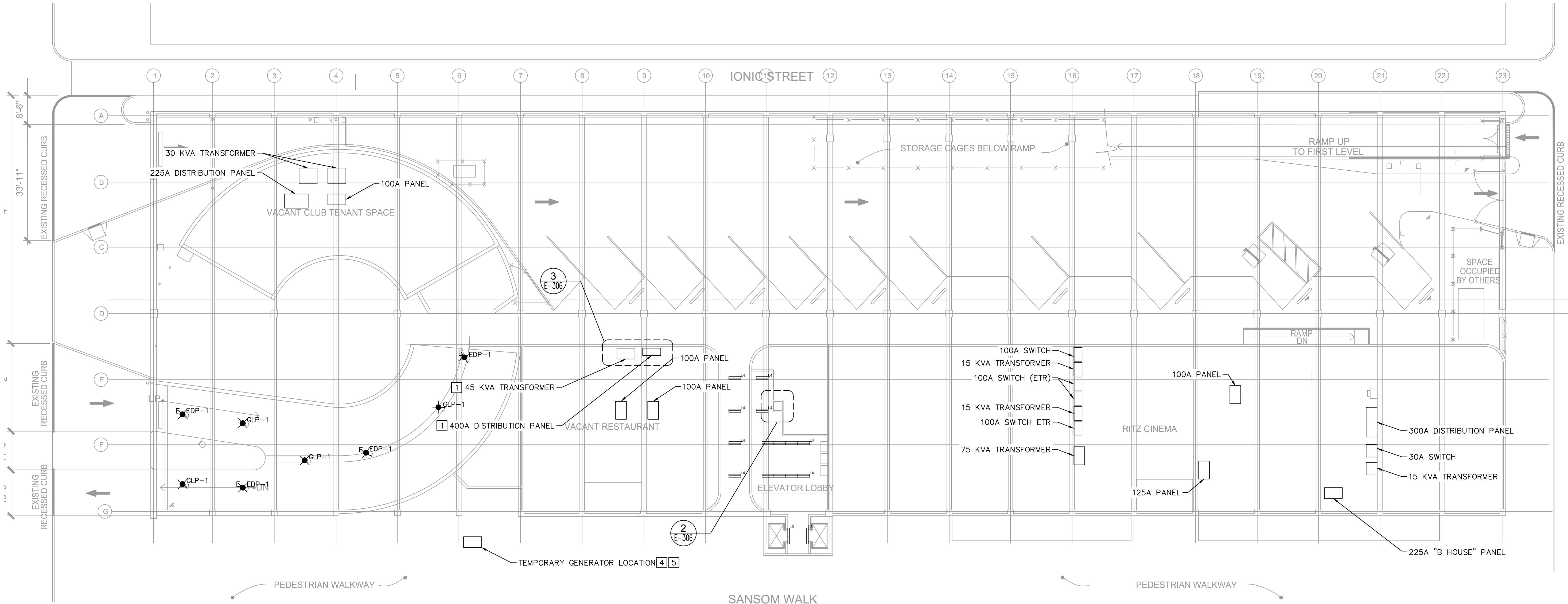
VACANT CLUB TENANT SPACE




Equipment	Voltage	Amperage	KVA	Flush Mounted	Surface Mounted	Floor Mounted
Transformer			30KVA			X
Transformer			30KVA			X
Distribution Panel	277/480V	225A			X	
LP Panel	120/208V	100A			X	

Equipment	Voltage	Amperage	KVA	Flush Mounted	Surface Mounted	Floor Mounted
Transformer			45KVA			X
Panel 1	120/208V	100A			X	
Panel 2	120/208V	100A			X	
Panel HP2	277/480V	125A			X	
Distribution Panel	277/480V	400A			X	

RITZ THEATER

Equipment	Voltage	Amperage	KVA	Flush Mounted	Surface Mounted	Floor Mounted
Transformer			15KVA		X	
Transformer			15KVA		X	
Transformer			75KVA			X
Transformer			15KVA		X	
Panel 1	120/208V	125A		X		
Panel EMA	120/280V	100A			X	
Distribution Panel	277/480V	300A			X	
B House Panel	120/208V	225A			X	
100A Switch	600V	100A			X	
30A Switch	600V	30A			X	



LUMINAIRE SCHEDULE							
SYMBOL	LABEL	QTY	ARRANGEMENT	DESCRIPTION	TOTAL ARR. WATTS	TOTAL ARR. LUMENS	LLF
	L1	56	SINGLE	STONCO GCR60-SCT-G1-SM-5-10-BZ	37.8	5852	0.85
	L3	4	SINGLE	COOPER WN-428T5-27TV-CRA	28.0	2800	0.85
	L4	14	SINGLE	ALCON 12100-66-RTL-D-D24-CRX-50K-010-WH-8	24.0	2900	0.85

'E' SUPERSCRIPT INDICATES EMERGENCY FIXTURE
'XPP-#' SUPERSCRIPT INDICATES PANELBOARD AND CIRCUIT NUMBER

SHEET NOTES:

- 1 NEW EQUIPMENT TO BE LOCATED ON FIRST FLOOR IN OPEN AREA OF KITCHEN. VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION. EXTEND AND RECONNECT ALL EXISTING CIRCUITS.

GENERAL NOTES:

1. HORIZONTAL LIGHTING CONDUIT SHALL BE SURFACE MOUNTED. NO PENETRATIONS THROUGH STRUCTURAL BEAMS WILL BE ALLOWED.
2. CONTRACTOR SHALL RECONNECT ALL EXISTING CIRCUITS TO NEW EQUIPMENT. PROVIDE UPDATED, TYPED PANEL DIRECTORY.
3. ALL 'L1' AND 'L2' FIXTURES ARE PPA FURNISHED, CONTRACTOR INSTALLED.
4. TEMPORARY GENERATOR SHALL BE POSITIONED NORTH OF THE PEDESTRIAN WALKWAY IN A MANNER THAT WILL NOT IMPACT PEDESTRIAN TRAFFIC.
5. TEMPORARY GENERATOR SHALL BE IN SOUND ATTENUATED ENCLOSURE.

1	ADDENDUM #4	REVISION	07/29/24	JCS
2	ADDENDUM #7	REVISION	08/16/24	JCS
No.		REVISIONS	DATE	BY

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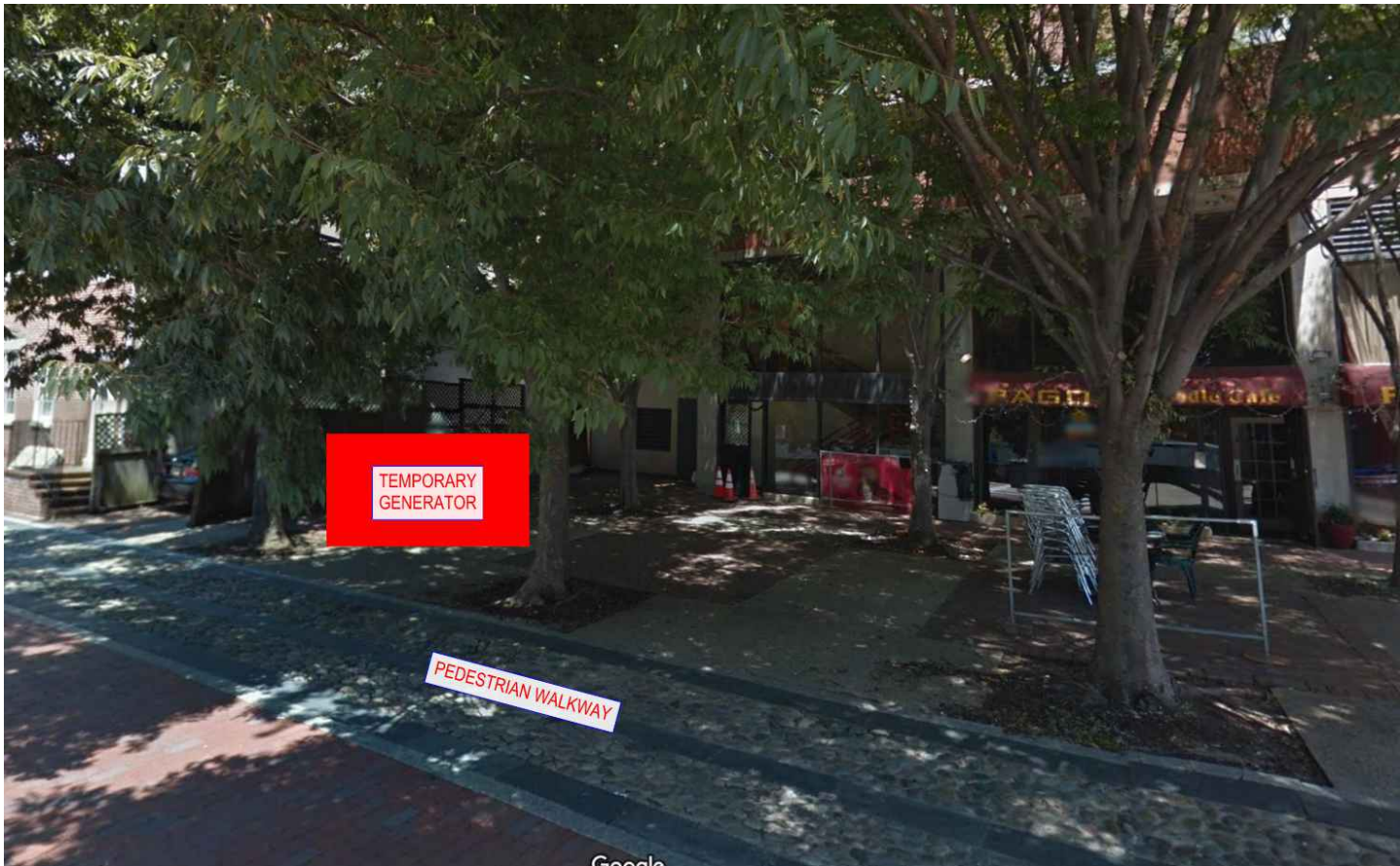


KHA PROJECT 112359002	DATE 01/31/2024	SCALE AS SHOWN	DESIGNED BY JCS	DRAWN BY LDH	CHECKED BY LTM
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ELECTRICAL PLANS- GROUND FLOOR

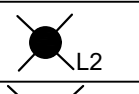
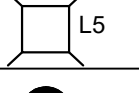
PPA GARAGE MAINTENANCE
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PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PHILADELPHIA PENNSYLVANIA

SHEET NUMBER
E-300

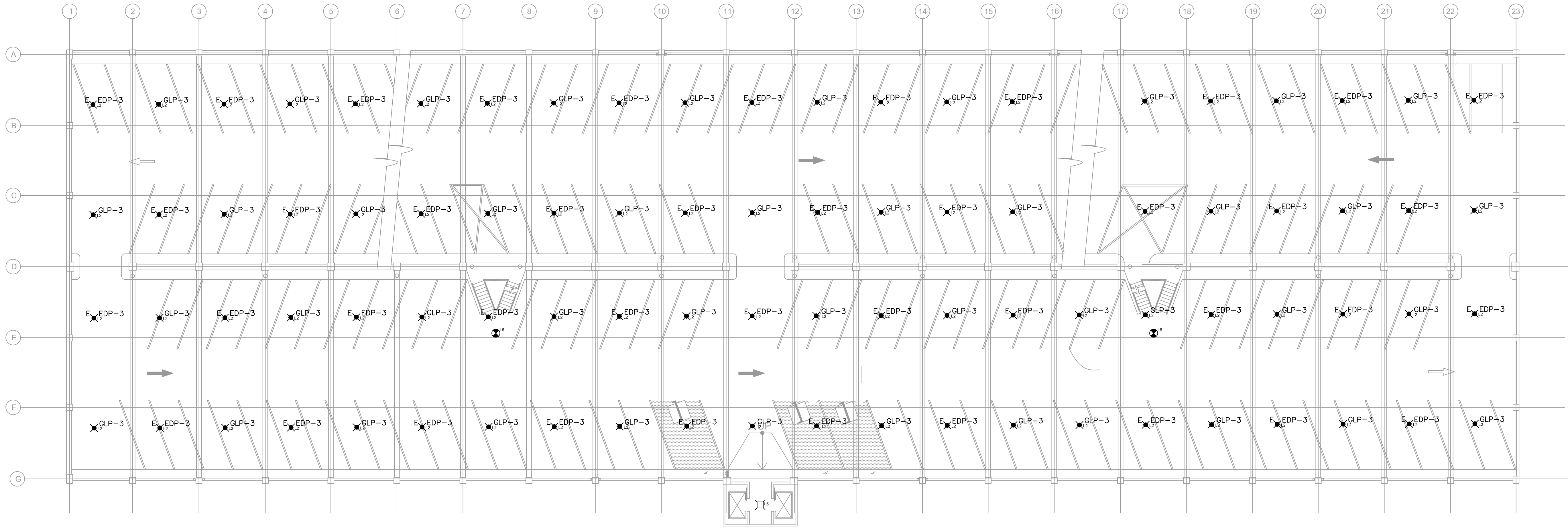


TEMPORARY GENERATOR LOCATION

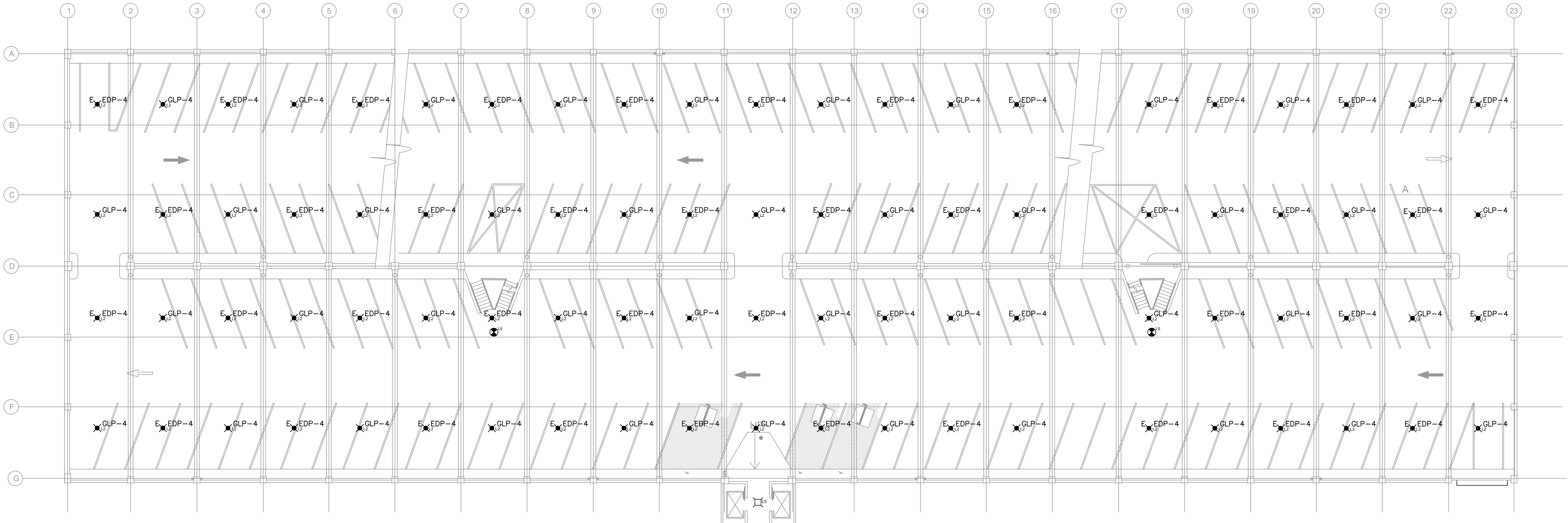
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LUMINAIRE SCHEDULE						
SYMBOL	LABEL	QTY	ARRANGEMENT	DESCRIPTION	TOTAL ARR. WATTS	TOTAL ARR. LUMENS
	L2	86	SINGLE	STONCO GCR60-SCT-G1-SM-5-10-BZ	27.3	4272
	L5	1	SINGLE	LITHONIA CNY-LED-P0-50K-MVOLT-DOB	27.0	3500
	L6	2	SINGLE	EXIT LIGHT CO. WLT-R-W-S-AC-CW	16.0	N/A

'E' SUPERScript INDICATES EMERGENCY FIXTURE
'XXP-#' SUPERScript INDICATES PANELBOARD AND CIRCUIT NUMBER



Plotted By:Erwin, Weslin Sheet Set:PPA Garage Maintenance Repairs – Old City Layout:E-303 August 19, 2024 08:13:50am K:\VAB_SYSTEMS\Other_Regions\PPA\CADD\Plansheets\OLD_CITY\E-201.dwg



LUMINAIRE SCHEDULE							
SYMBOL	LABEL	QTY	ARRANGEMENT	DESCRIPTION	TOTAL ARR. WATTS	TOTAL ARR. LUMENS	LLF
	L2	84	SINGLE	STONCO GCR60-SCT-G1-SM-5-10-BZ	27.3	4272	0.85
	L5	1	SINGLE	LITHONIA CNY-LED-P0-50K-MVOLT-DDB	27.0	3500	0.85
	L6	2	SINGLE	EXIT LIGHT CO. WLTR-W-S-AC-CW	16.0	N/A	N/A

'E' SUPERSCRIPT INDICATES EMERGENCY FIXTURE
'XPP-#' SUPERSCRIPT INDICATES PANELBOARD AND CIRCUIT NUMBER

GENERAL NOTES:

1. HORIZONTAL LIGHTING CONDUIT SHALL BE SURFACE MOUNTED. NO PENETRATIONS THROUGH STRUCTURAL DOUBLE TEES WILL BE ALLOWED.
2. ALL 'L2' FIXTURES ARE PPA FURNISHED, CONTRACTOR INSTALLED.

No.	REVISIONS	DATE	BY
1	ADDENDUM #4 REVISION	07/29/24	JCS
2	ADDENDUM #7 REVISION	08/16/24	JCS
1			

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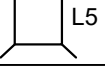

KHA PROJECT 112359002	DATE 01/31/2024	SCALE AS SHOWN	DESIGNED BY JCS	DRAWN BY LDH	CHECKED BY LTM
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ELECTRICAL PLANS - FOURTH FLOOR

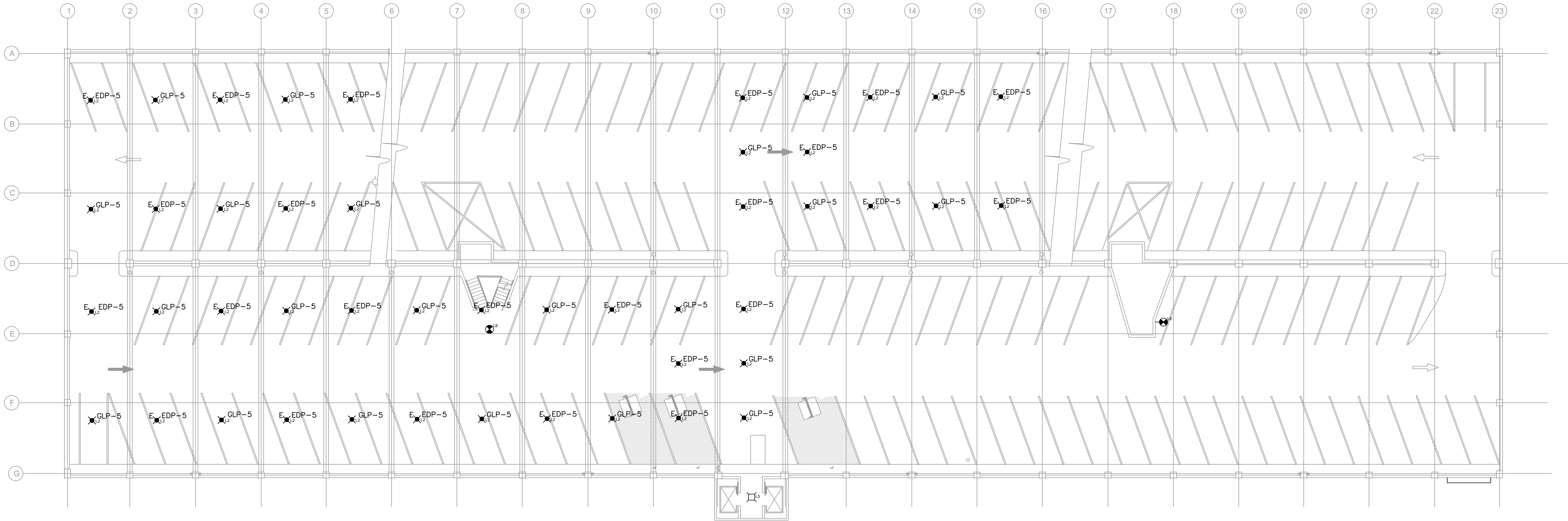
PPA GARAGE MAINTENANCE
REPAIRS - OLD CITY
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PHILADELPHIA
PENNSYLVANIA

SHEET NUMBER
E-303

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs - Old City Layout:E-304 August 19, 2024 08:13:56am K:\VAB\SYSTEMS\Other_Regions\PPA\CADD\Plansheets\OLD_CITY\E-201.dwg
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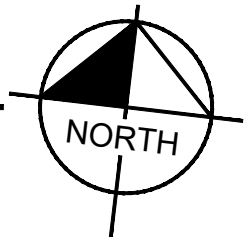
LUMINAIRE SCHEDULE						
SYMBOL	LABEL	QTY	ARRANGEMENT	DESCRIPTION	TOTAL ARR. WATTS	TOTAL ARR. LUMENS
	L2	46	SINGLE	STONCO GCR60-SCT-G1-SM-5-10-BZ	27.3	4272
	L5	1	SINGLE	LITHONIA CNY-LED-P0-50K-MVOLT-DDB	27.0	3500
	L6	2	SINGLE	EXIT LIGHT CO. WLT-R-W-S-AC-CW	16.0	N/A
						LLF

'E' SUPERScript INDICATES EMERGENCY FIXTURE
'XXP-#' SUPERScript INDICATES PANELBOARD AND CIRCUIT NUMBER

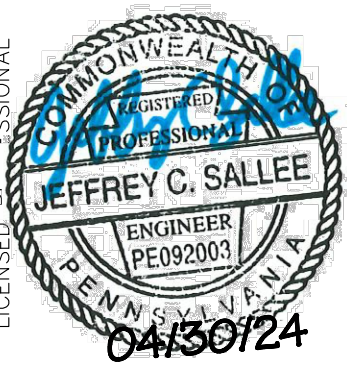



1
E-304
1"=15'


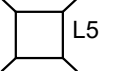

ELECTRICAL PLANS - FIFTH FLOOR



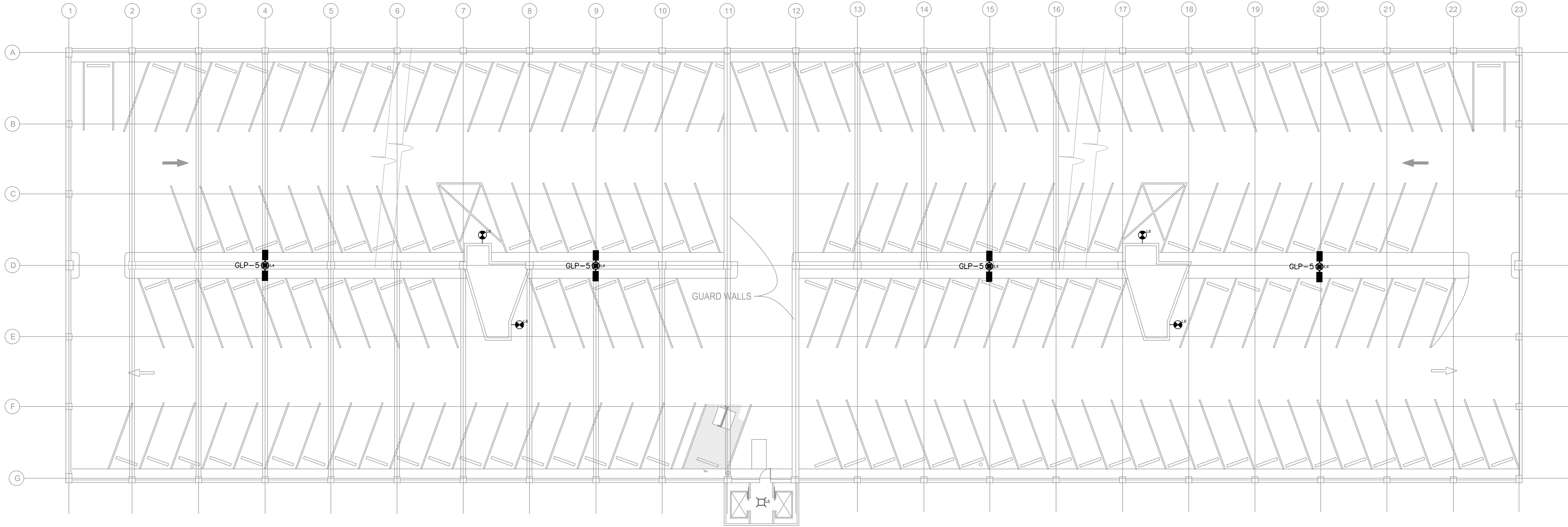
- GENERAL NOTES:
- HORIZONTAL LIGHTING CONDUIT SHALL BE SURFACE MOUNTED. NO PENETRATIONS THROUGH STRUCTURAL DOUBLE TEES WILL BE ALLOWED.
 - ALL 'L1' AND 'L2' FIXTURES ARE PPA FURNISHED, CONTRACTOR INSTALLED.

PPA GARAGE MAINTENANCE REPAIRS - OLD CITY PREPARED FOR PHILADELPHIA PARKING AUTHORITY PHILADELPHIA PENNSYLVANIA	ELECTRICAL PLANS - FIFTH FLOOR	 KHA PROJECT 112359002 DATE 01/31/2024 SCALE AS SHOWN DESIGNED BY JCS DRAWN BY LDH CHECKED BY LTM	 © 2024 KIMLEY-HORN AND ASSOCIATES, INC. 50 SOUTH 16TH ST., TWO LIBERTY PLACE SUITE 3300 PHILADELPHIA, PA 19102 PHONE: 267-687-0150 WWW.KIMLEY-HORN.COM	1	ADDENDUM #4	REVISION	JCS	07/29/24	2	ADDENDUM #7	REVISION	JCS	08/16/24																					No.		REVISIONS		DATE					BY
1	ADDENDUM #4	REVISION	JCS	07/29/24																																							
2	ADDENDUM #7	REVISION	JCS	08/16/24																																							
No.		REVISIONS		DATE																																							
				BY																																							

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs - Old City Layout:E-305 August 19, 2024 08:14:01am K:\VAB_SYSTEMS\Other-Regions\PPA\CADD\Plans\Sheets\OLD CITY\E-201.dwg
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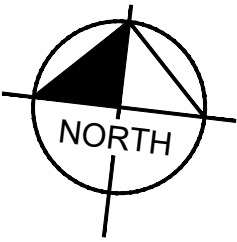
LUMINAIRE SCHEDULE							
SYMBOL	LABEL	QTY	ARRANGEMENT	DESCRIPTION	TOTAL ARR. WATTS	TOTAL ARR. LUMENS	LLF
	L7	4	BACK-TO-BACK	GLEON-SA2C-740-U-T4W	226.0	28742	0.85
	L5	1	SINGLE	LITHONIA CNY-LED-P0-50K-MVOLT-DDB	27.0	3500	0.85
	L6	4	SINGLE	EXIT LIGHT CO. WLT-R-W-S-AC-CW	16.0	N/A	N/A

*XXP-# SUPERScript INDICATES PANELBOARD AND CIRCUIT NUMBER



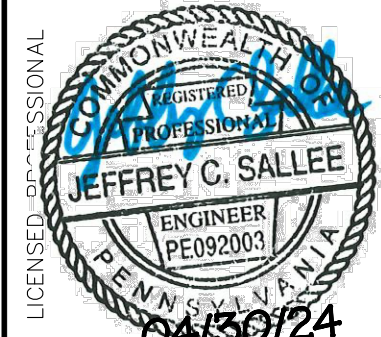
1
E-305
1"=15'

ELECTRICAL PLANS - ROOF



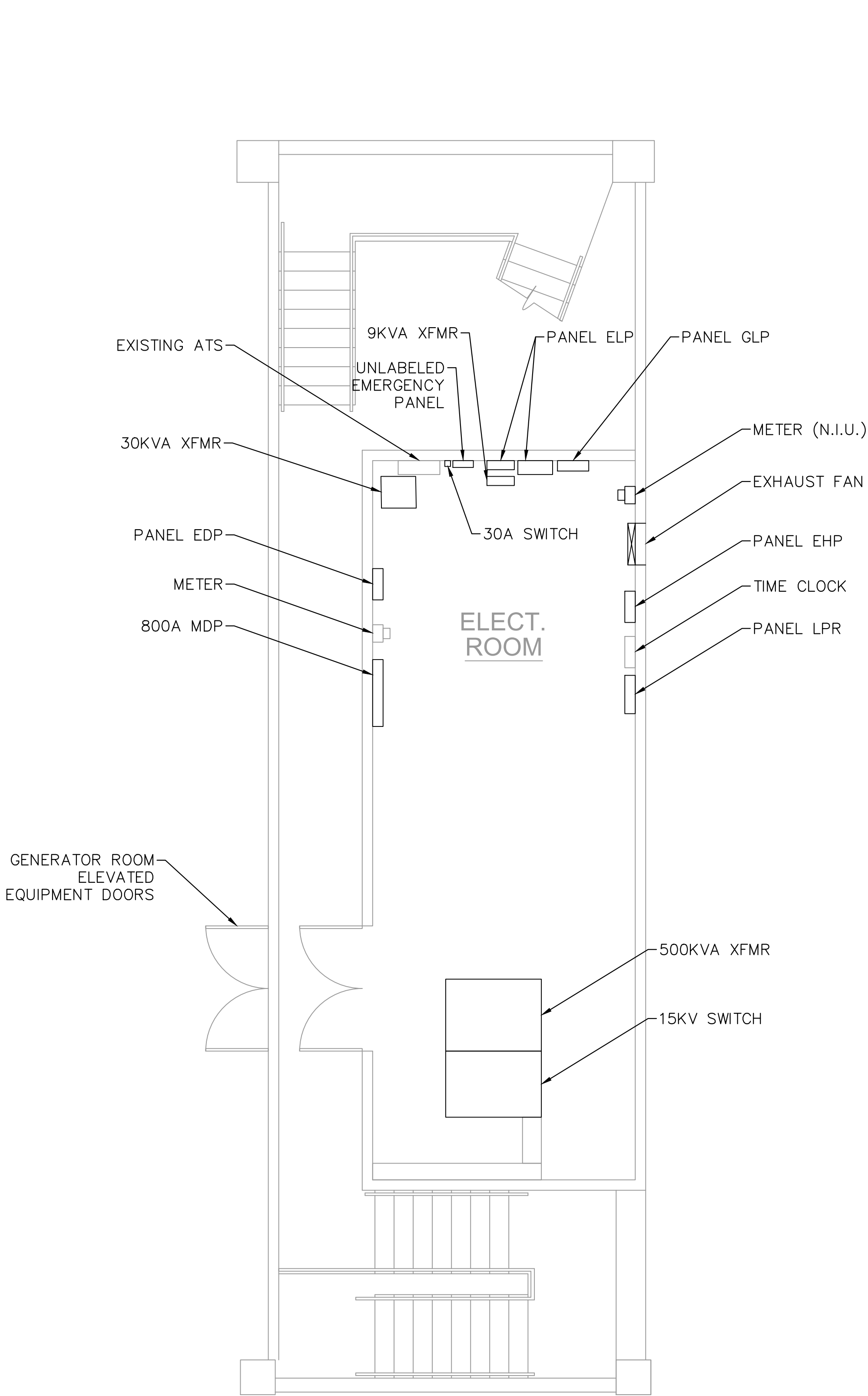
ELECTRICAL PLANS -
ROOF

KHA PROJECT
112359002
DATE
01/31/2024
SCALE AS SHOWN
DESIGNED BY JCS
DRAWN BY LDH
CHECKED BY LTM



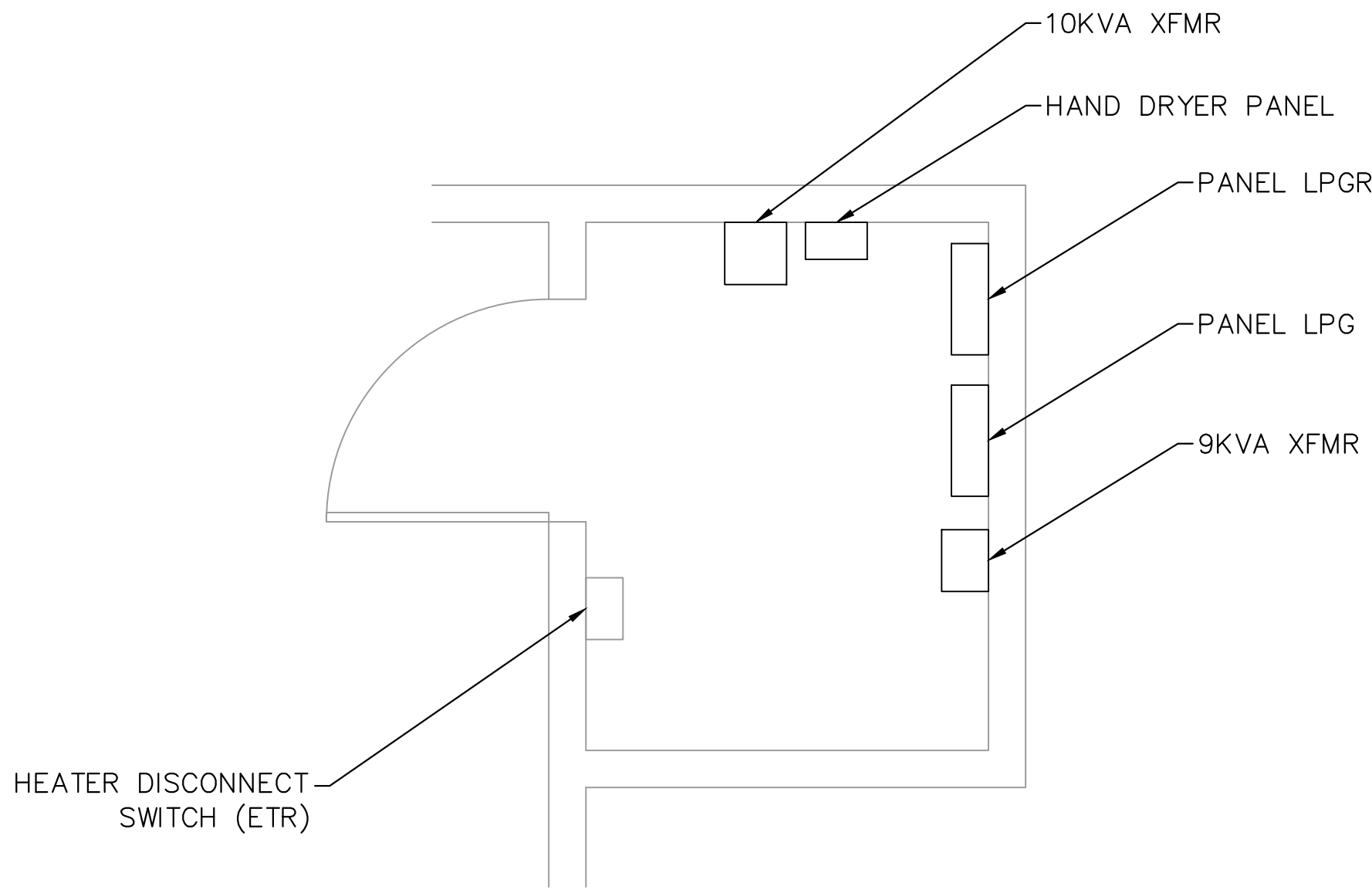
1	ADDENDUM #4	REVISION	07/29/24	JCS
2	ADDENDUM #7	REVISION	08/16/24	JCS
No.		REVISIONS	DATE	BY

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs - Old City Layout:E-306 August 19, 2024 08:14:07am K:\VAB_SYSTEMS\Other_Regions\PPA\CADD\Plansheets\OLD_CITY\E-201.dwg
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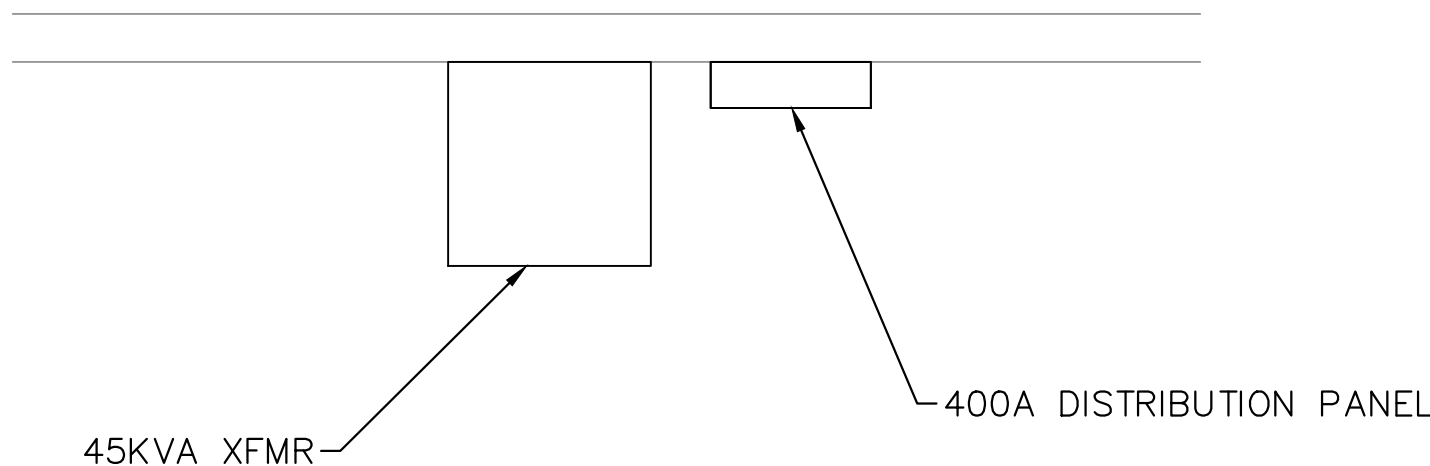
1
E-306
1"=4'

ENLARGED ELECTRICAL ROOM



2
E-306
1"=2'

JANITOR CLOSET



3
E-306
1"=2'

RESTAURANT KITCHEN

ENLARGED ELECTRICAL ROOM						
Equipment	Voltage	Amperage	KVA	Flush Mounted	Surface Mounted	Floor Mounted
Transformer			9KVA		X	
Transformer			30KVA			X
Transformer			500KVA			X
MDP	277/480V	800A			X	
Panel EHP	277/480V	150A			X	
Panel LPR	277/480V	30A			X	
Panel GLP	277/480V	100A			X	
Panel ELP	277/480V	225A			X	
Emergency Panel	600V	30A			X	
Panel EDP	120/208V	100A			X	
15KV Switch	13.2KV	100A				X

JANITOR CLOSET						
Equipment	Voltage	Amperage	KVA	Flush Mounted	Surface Mounted	Floor Mounted
Transformer			9KVA		X	
Transformer			10KVA		X	
Panel LPG	277/480V	100A			X	
Panel LPGR	120/208V	60A			X	
Hand Dryer Panel	120/208V	60A			X	

- GENERAL NOTES:**
- EQUIPMENT TO BE DEMOLISHED SHALL BE TURNED OVER TO PPA. IF PPA DOES NOT WANT EQUIPMENT, THE EQUIPMENT SHALL BECOME CONTRACTOR'S PROPERTY AND RESPONSIBILITY TO REMOVE FROM THE SITE.
 - CONTRACTOR SHALL RECONNECT ALL EXISTING CIRCUITS TO NEW EQUIPMENT. PROVIDE UPDATED, TYPED PANEL DIRECTORY.
 - CONFIRM WITH 15KV SWITCH MANUFACTURER THAT SWITCH CAN BE LAID DOWN WHEN BEING BROUGHT INTO THE ELECTRICAL ROOM.

PPA GARAGE MAINTENANCE REPAIRS - OLD CITY
PREPARED FOR
PHILADELPHIA PARKING AUTHORITY

PHILADELPHIA
PENNSYLVANIA

ELECTRICAL PLANS -
ENLARGED ELEC
ROOM

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ADDENDUM #4 REVISION
ADDENDUM #7 REVISION

07/29/24 JCS
08/16/24 JCS

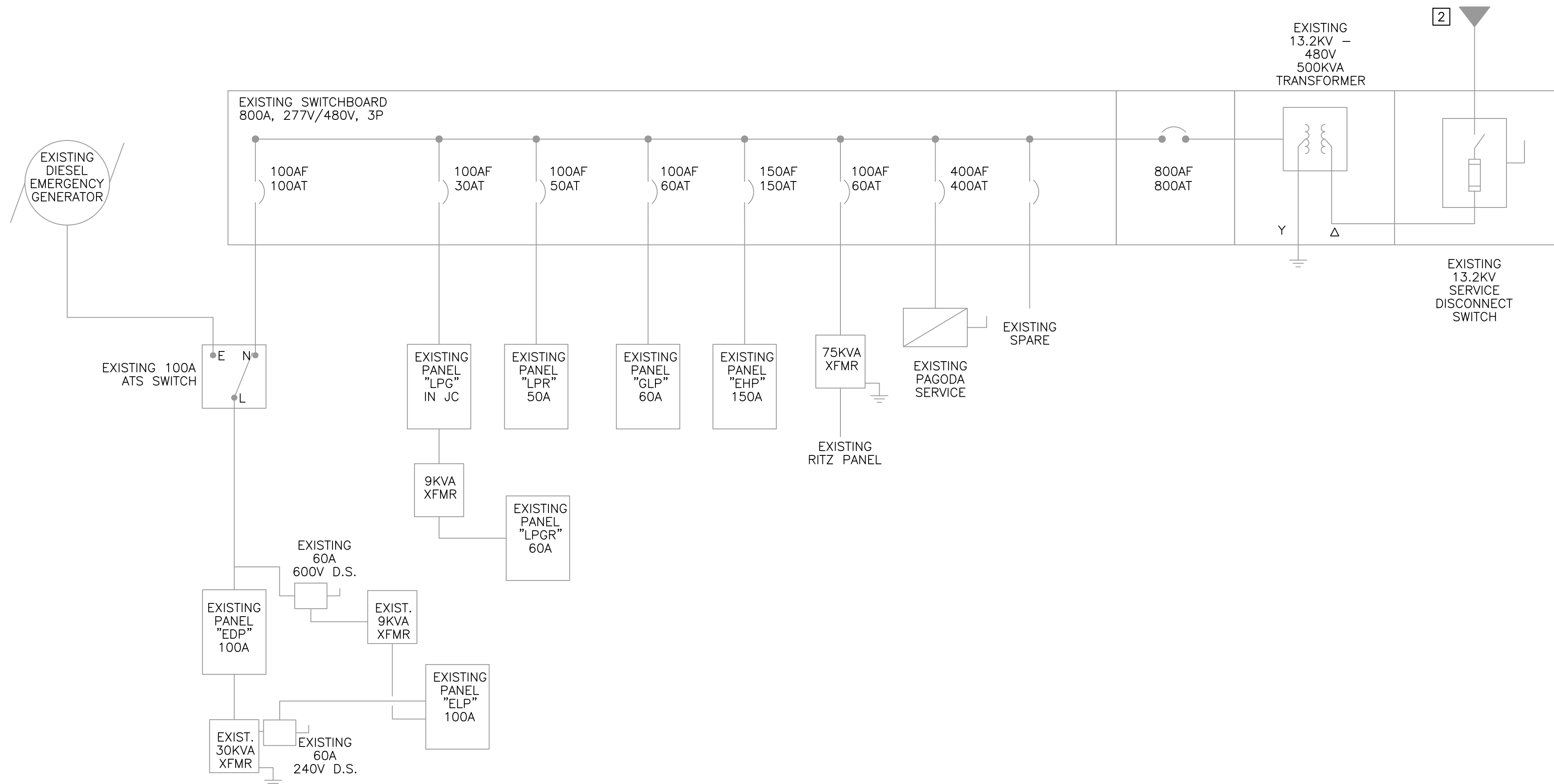
REVISIONS

DATE

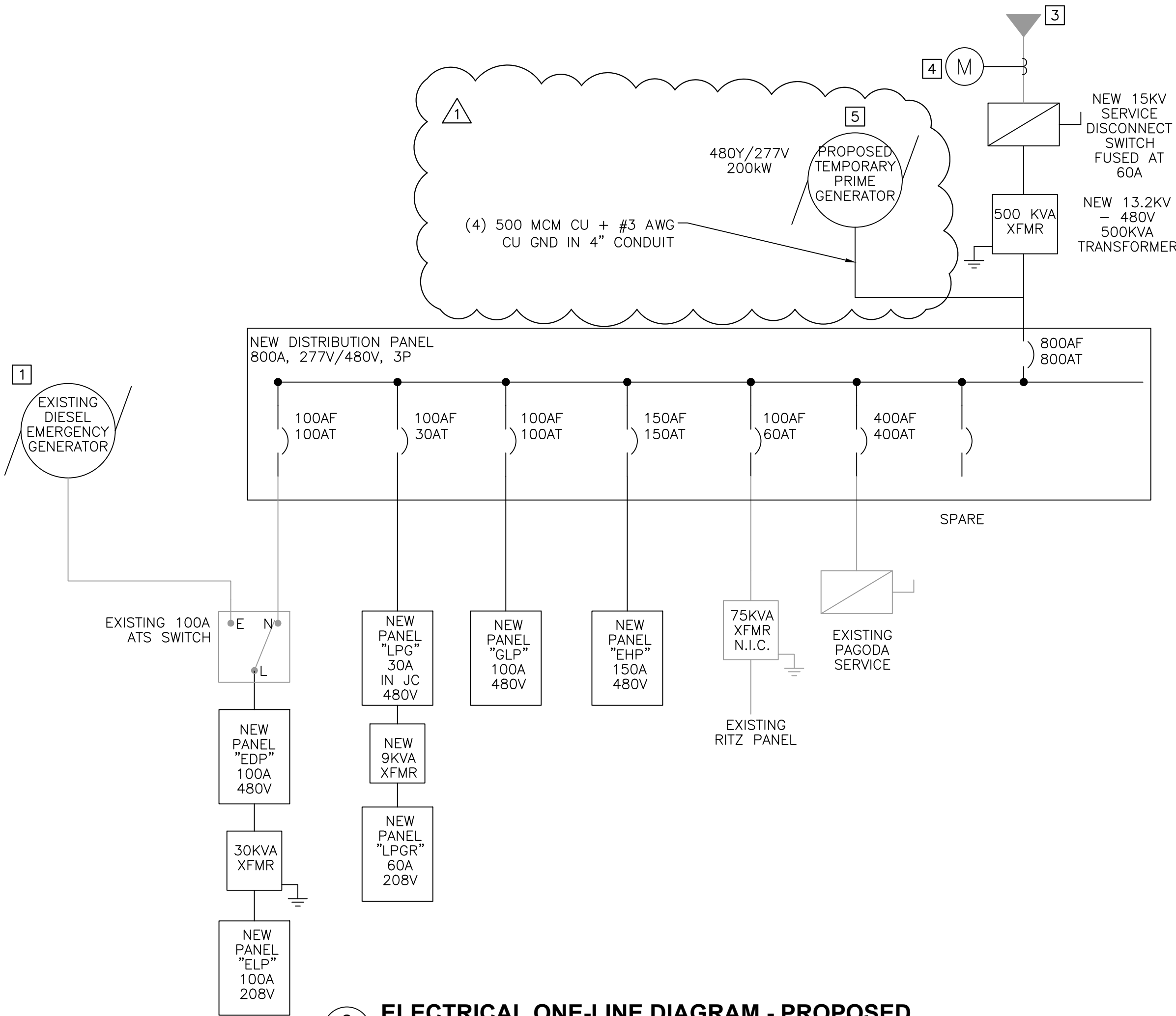
BY

DATE

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs - Old City Layout:E-600 August 19, 2024 08:14:12am K:\VAB-SYSTEMS\Other-Regions\PPA\CADD\Plansheets\OLD CITY\E-301.dwg
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1 ELECTRICAL ONE-LINE DIAGRAM - EXISTING
E-600



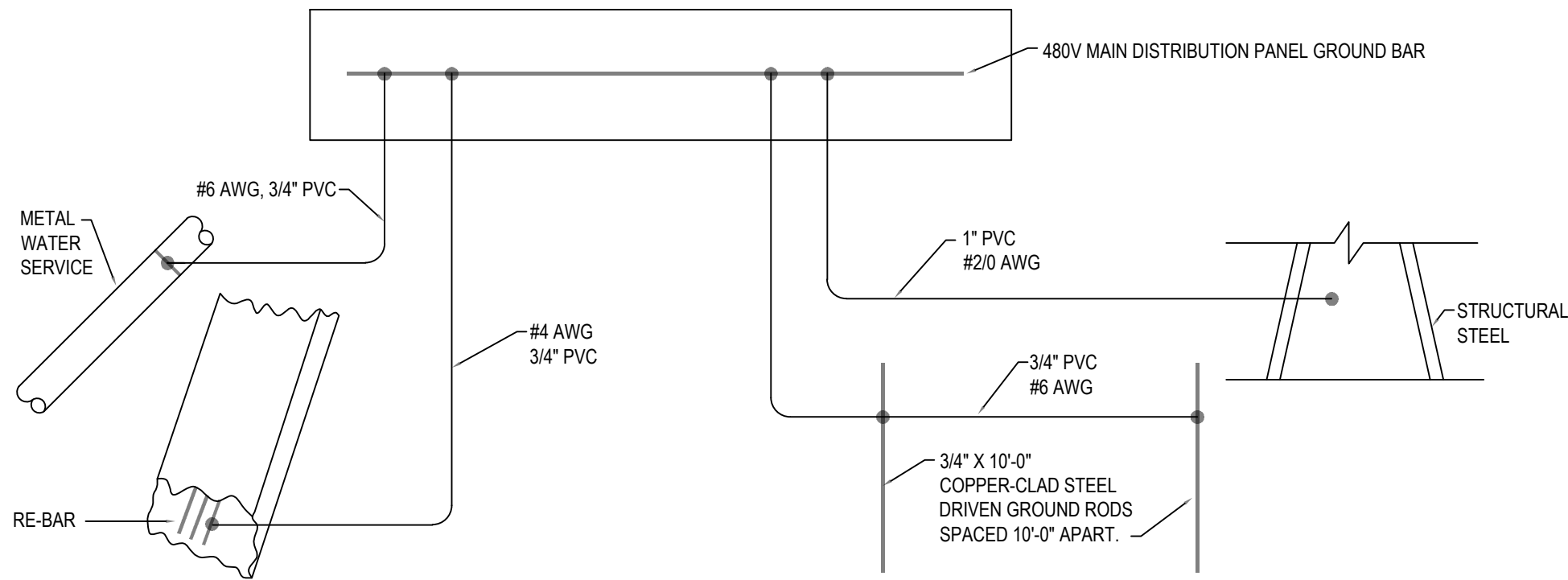
2 ELECTRICAL ONE-LINE DIAGRAM - PROPOSED
E-600

- SHEET NOTES:
- 1 GENERATOR REPLACED IN 2023 THROUGH A SEPERATE PROJECT
 - 2 COORDINATE SERVICE SHUTDOWN WITH PECO
 - 3 COORDINATE SERVICE ENERGIZATION WITH PECO
 - 4 OBTAIN METER FROM PECO
 - 5 TEMPORARY GENERATOR TO BE PRIME POWER DURING DEMOLITION OF EXISTING SERVICE AND INSTALLATION OF PROPOSED SERVICE EQUIPMENT. CONTRACTOR SHALL COORDINATE WITH PPA 2 WEEKS IN ADVANCE OF UTILITY POWER DISCONNECT AND UTILITY POWER RECONNECT.

PPA GARAGE MAINTENANCE REPAIRS - OLD CITY		ONE LINE DIAGRAMS AND PANEL SCHEDULES		KHA PROJECT 112359002		LICENSER: PROFESSIONAL		Kimley»»Horn		1 2		APPENDUM #4 APPENDUM #7		07/29/24 08/16/24		JCS JCS	
PREPARED FOR PHILADELPHIA PARKING AUTHORITY		PHILADELPHIA PENNSYLVANIA		DATE 01/31/2024		SCALE AS SHOWN		© 2024 KIMLEY-HORN AND ASSOCIATES, INC. 50 SOUTH 16TH ST, TWO LIBERTY PLACE SUITE 3300 PHILADELPHIA, PA 19102 PHONE: 267-687-0150 WWW.KIMLEY-HORN.COM									
				DESIGNED BY JCS		DRAWN BY LDH											
				CHECKED BY LTM													

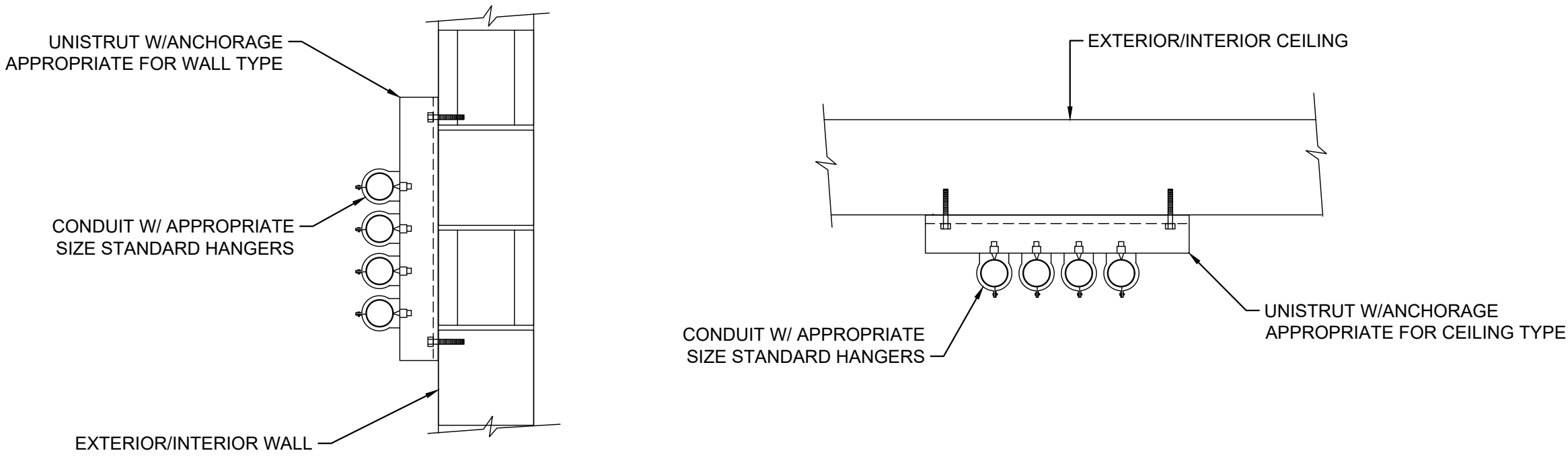
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GROUNDING ELECTRODE DIAGRAM



NOTE: GROUNDING ELECTRODE CONDUCTORS SHALL BE INSTALLED PER NEC ARTICLE 250.66

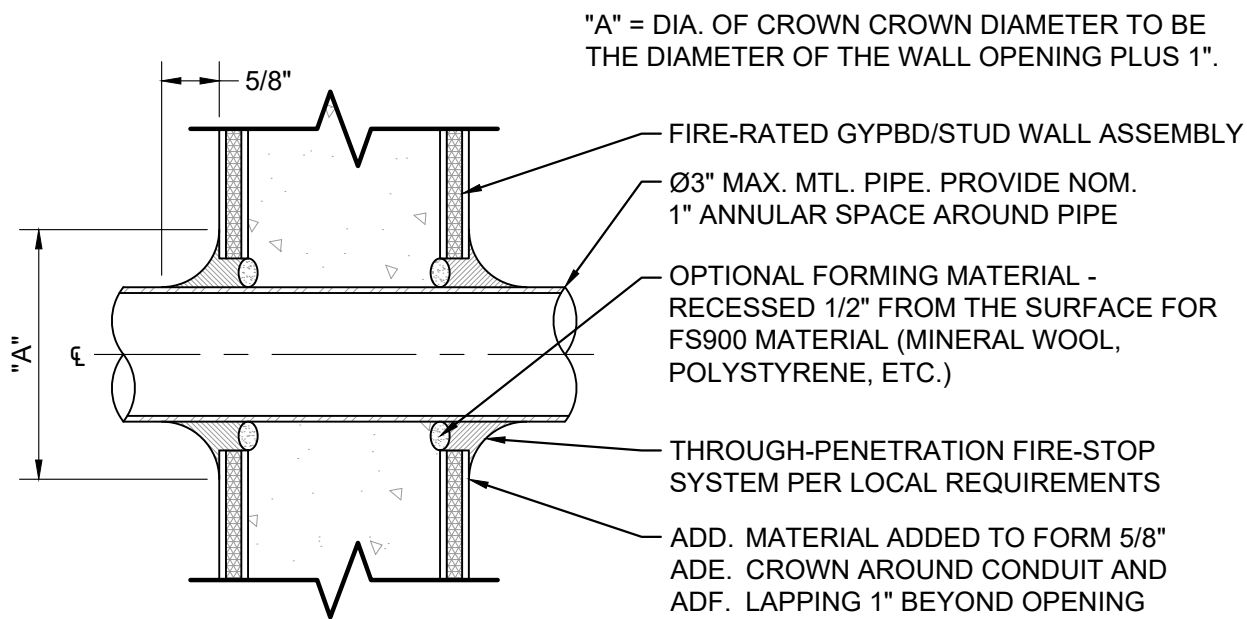
CONDUIT SUPPORT DETAIL



NOTES:

1. ALL CONDUIT SUPPORT SPACING: SPACING TO BE NO MORE THAN NEC ALLOWED DISTANCES.
2. PROVIDE MOUNTING HARDWARE, PULL BOXES, EXPANSION JOINT, AND FLEX CONNECTORS AS REQUIRED BY NEC AND SITE CONDITIONS

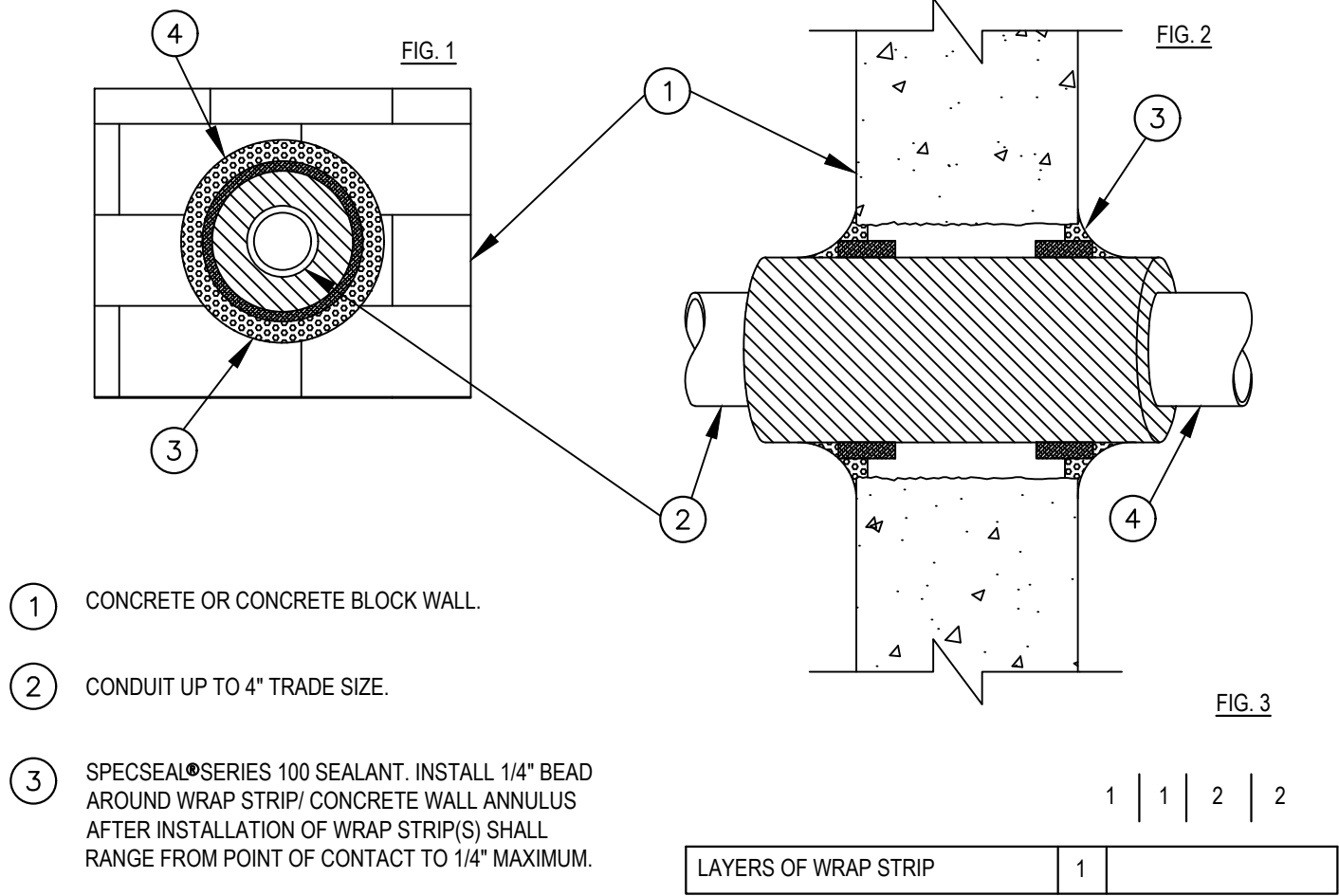
CONDUIT WALL PENETRATION



NOTES:

1. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS WHEN DRILLING INTO EXISTING CIP SLAB AND CIP DROP PANELS TO AVOID DAMAGE TO ANY REINFORCING AND EXISTING STRUCTURAL COMPONENTS.
2. USE APPROVED ASTM METHOD (X-RAY, PACOMETER, GPR, ECT.) TO LOCATED MILD STEEL AND PRE-STRESSING TENDONS PRIOR TO DRILLING. DO NOT CUT OR DRILL THROUGH ANY EXISTING REINFORCING. ADJUST LOCATION AS NECESSARY TO AVOID EXISTING REINFORCING.
3. ALL PENETRATIONS MUST BE LOCATED A MINIMUM OF 18" AWAY FROM THE EDGE OF CONCRETE. CONTACT EOR IF VARIANCE IS REQUESTED.
4. PENETRATIONS THROUGH WALLS AND FLOORS SHALL COMPLY WITH THE LOCAL AHJ LATEST BUILDING CODE CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES SECTIONS 709.6 AND 714.

CONDUIT PENETRATION

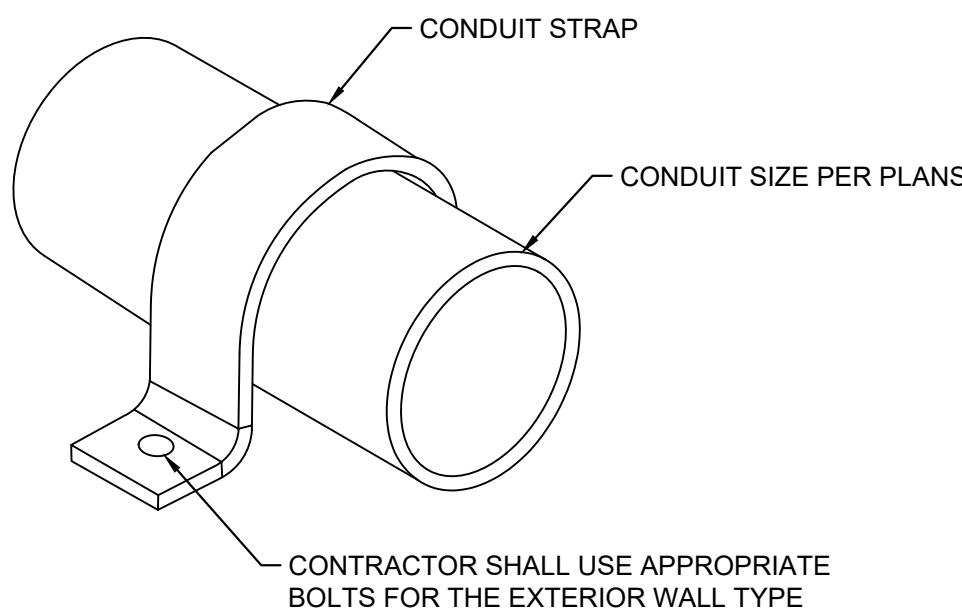


1. CONCRETE OR CONCRETE BLOCK WALL.
2. CONDUIT UP TO 4" TRADE SIZE.
3. SPECSEAL®SERIES 100 SEALANT. INSTALL 1/4" BEAD AROUND WRAP STRIP/ CONCRETE WALL ANNULUS AFTER INSTALLATION OF WRAP STRIP(S) SHALL RANGE FROM POINT OF CONTACT TO 1/4" MAXIMUM.
4. SPECSEAL®(SSW12 OR SSWRED) WRAP STRIP. WRAP PRODUCT AROUND CONDUIT, SECURE STEEL TIE WIRE, AND RECESS 1-3/4" INTO WALL CAVITY. SEE FIG. 3 FOR THE NUMBER OF LAYERS REQUIRED.

NOTE:

- THE PRODUCTS USED IN THIS DESIGN SYSTEM HAVE BEEN TESTED AS FOLLOWS:
- ASTM E814 (UL1479)
 - ASTM E119 (TIME/ TEMP. EXPOSURE) (COTTON WASTE IGNITION)
 - ANNULAR SPACE REQUIREMENTS

WALL CONDUIT MOUNT STRAP



KHA PROJECT	DATE	SCALE	AS SHOWN	DESIGNED BY	JCS	LDH	LTM	CHECKED BY	PENNSYLVANIA	PPA GARAGE MAINTENANCE REPAIRS - OLD CITY PREPARED FOR PHILADELPHIA PARKING AUTHORITY	DETAILS	ADDENDUM #4 REVISION	ADDENDUM #7 REVISION	JCS	JCS	BY	DATE	REVISIONS	No.
08/07/2024	08/16/24	07/29/24	08/16/24	07/29/24	07/29/24	07/29/24	07/29/24	07/29/24	07/29/24	07/29/24	07/29/24	07/29/24	07/29/24	07/29/24	07/29/24	07/29/24	07/29/24	07/29/24	07/29/24

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LICENSED PROFESSIONAL ENGINEER
JEFFREY C. SALLEE
PENN. REG. NO. 04136124

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Reports – Old City Layout – 602 August 19, 2024 08:14:22am K:\VAB-SYSTEMS\Other_Regions\PPA-CADD\Plansheets\OLD_CITY-602_Panel_Schedules.dwg

1
E-602

225A DISTRIBUTION PANEL - CLUB TENANT

N.T.S.

100A PANEL - CLUB TENANT
N.T.S.

3
E-602

125 PANEL - RITZ CINEMA
N.T.S.

300A DISTRIBUTION PANEL - RITZ CINEMA

5
E-602

225A "B HOUSE" PANEL - RITZ CINEMA
N.T.S.

6
E-602

100A PANEL - RITZ CINEMA
N.T.S.

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SHEET NUMBER
E-602

Plotted By:Erwin, Westin Sheet Set:PPA, Garage Maintenance Repairs - Old City, Layout:E-603 August 19, 2024 08:14:25am K:\VAB-SYSTEMS\Other_Regions\PPA\CADD\Plansheets\OLD_CITY\E-602 Panel Schedules.dwg
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GENERAL NOTE:
CONTRACTOR SHALL VERIFY PANEL SCHEDULE
ON PLANS WITH PANELS ON SITE. NOTIFY THE
ENGINEER OF ANY DISCREPANCIES.

Panel Schedule															
Existing 400A Distribution Panel Location: Existing Electrical Room Volts: 480Y/277V Phase: 3 Wire: 4 Hertz: 60															
M.L.O Main AIC: N/A Branch AIC: 14,000 ENCL (NEMA): 1 MTG: Surface															
400 Amp Frame , Ground Bar, Locking Cover, Panel Card.															
Description of Load Served	Breaker		Wire	A/Phase			CKT No	CKT No	A/Phase			Wire	Breaker		Description of Load Served
	Amp	Pole		A	B	C			A	B	C		Amp	Pole	
SPACE		1					1	2						1	SPACE
SPACE		1					3	4						1	SPACE
SPACE		1					5	6						1	SPACE
SPACE		1					7	8						1	SPACE
SPACE		1					9	10						1	SPACE
SPACE		1					11	12				EX			
SPACE		1					13	14	EX			EX	20	3	ELEC DUCT HEATER #1
SPACE		1					15	16			EX				
		1				EX	17	18			EX				
ELEC HEAT DOWNSTAIRS #3	30	3	EX				19	20	EX			EX	20	3	AIR HANDLER
				EX			21	22		EX					
					EX		23	24						1	SPACE
TRANS	60	3	EX			EX	25	26						1	SPACE
				EX			27	28						1	SPACE
SPACE		1					29	30				EX			
SPACE		1					31	32	EX				70	3	CONDENSOR UNITS PANNEL
SPACE		1					33	34			EX				
						EX	35	36						1	SPACE
ELEC DUCT HEATER #2	70	3	EX				37	38						1	SPACE
				EX			39	40						1	SPACE

1
E-603
N.T.S.

PANEL HP2 - VACANT RESTAURANT

Panel Schedule															
Existing 100A Panel Location: Kitchen - Near Fire Alarm Volts: 208Y/120V Phase: 3 Wire: 4 Hertz: 60															
M.L.O Main AIC: N/A Branch AIC: 10,000 ENCL (NEMA): 1 MTG: Surface															
100 Amp Frame , Ground Bar, Locking Cover, Panel Card.															
Description of Load Served	Breaker		Wire	A/Phase			CKT No	CKT No	A/Phase			Wire	Breaker		Description of Load Served
	Amp	Pole		A	B	C			A	B	C		Amp	Pole	
EXISTING	EX	2	EX	EX			1	2	EX			EX	EX	1	EXISTING
EXISTING	EX	1	EX		EX		3	4		EX		EX	EX	1	EXISTING
EXISTING	EX	1	EX	EX		EX	5	6				EX	EX	1	EXISTING
EXISTING	EX	1	EX		EX		7	8	EX			EX	EX	1	EXISTING
EXISTING	EX	1	EX			EX	9	10		EX		EX	EX	1	EXISTING
EXISTING	EX	1	EX			EX	11	12			EX	EX	EX	1	EXISTING
EXISTING	EX	1	EX	EX			13	14	EX			EX	EX	1	EXISTING
EXISTING	EX	1	EX		EX		15	16		EX		EX	EX	1	EXISTING
EXISTING	EX	1	EX			EX	17	18			EX	EX	EX	1	EXISTING
EXISTING	EX	1	EX	EX			19	20	EX			EX	EX	1	EXISTING
EXISTING	EX	1	EX		EX		21	22		EX		EX	EX	1	EXISTING
EXISTING	EX	1	EX			EX	23	24			EX	EX	EX	1	EXISTING
SPACE							25	26	EX			EX	EX	1	EXISTING
EXISTING	EX	1	EX		EX		27	28		EX		EX	EX	1	EXISTING
EXISTING	EX	1	EX			EX	29	30			EX	EX	EX	1	EXISTING
EXISTING	EX	1	EX	EX			31	32	EX			EX	EX	1	EXISTING
EXISTING	EX	1	EX		EX		33	34		EX		EX	EX	1	EXISTING
EXISTING	EX	1	EX			EX	35	36			EX	EX	EX	1	EXISTING

2
E-603
N.T.S.

100A PANEL - VACANT RESTAURANT

Panel Schedule															
Existing 100A Panel Location: Kitchen Volts: 208Y/120V Phase: 3 Wire: 4 Hertz: 60															
M.L.O Main AIC: N/A Branch AIC: 10,000 ENCL (NEMA): 1 MTG: Surface															
100 Amp Frame , Ground Bar, Locking Cover, Panel Card.															
Description of Load Served	Breaker		Wire	A/Phase			CKT No	CKT No	A/Phase			Wire	Breaker		Description of Load Served
	Amp	Pole		A	B	C			A	B	C		Amp	Pole	
SPACE		1	EX		EX		1	2	EX			EX	20	1	EXISTING
EXISTING	20	1	EX			EX	3	4		EX		EX	20	1	EXISTING
EXISTING	20	1	EX			EX	5	6			EX	EX	20	1	EXISTING
EXISTING	20	1	EX	EX			7	8		EX		EX	20	1	EXISTING
EXISTING	20	1	EX		EX		9	10			EX	EX	20	1	EXISTING
EXISTING	20	1	EX			EX	11	12			EX	EX	20	1	EXISTING
EXISTING	20	1	EX	EX			13	14	EX			EX	20	1	EXISTING
EXISTING	20	1	EX		EX		15	16			EX				
EXISTING	20	1	EX			EX	17	18				EX	30	2	EXISTING
EXISTING	20	1	EX	EX			19	20	EX			EX	20	1	EXISTING
EXISTING	15	1	EX		EX		21	22		EX		EX	20	1	EXISTING
EXISTING	15	1	EX			EX	23	24			EX	EX	20	1	EXISTING
EXISTING		2	EX				25	26	EX			EX	30	1	EXISTING
EXISTING					EX		27	28		EX					
EXISTING	20	2	EX			EX	29	30			EX	EX	20	2	EXISTING
EXISTING				EX			31	32	EX						
EXISTING	20	1	EX		EX		33	34			EX				
EXISTING	20	1	EX			EX	35	36				EX			EXISTING

3
E-603
N.T.S.

100A PANEL - VACANT RESTAURANT

Panel Schedule															
HVAC1 Location: Garage Volts: 480Y/2770V Phase: 3 Wire: 4 Hertz: 60															
M.L.O Main AIC: N/A Branch AIC: 10,000 ENCL (NEMA): 1 MTG: Surface															
125 Amp Frame , Ground Bar, Locking Cover, Panel Card.															
Description of Load Served	Breaker		Wire	A/Phase			CKT No	CKT No	A/Phase			Wire	Breaker		Description of Load Served
	Amp	Pole		A	B	C			A	B	C		Amp	Pole	
HVAC	60		EX	EX			1	2	EX			EX		3	HVAC
					EX		3	4		EX					
						EX	5	6			EX				
HVAC	60		EX	EX			7	8	EX			EX		3	HVAC
					EX		9	10		EX					
						EX	11	12			EX				
SPACE			1	EX			13	14	EX					1	SPACE
SPACE			1				15	16		EX				1	SPACE
SPACE			1				17	18			EX			1	SPACE
SPACE			1	EX			19	20	EX					1	SPACE

4
E-603
N.T.S.

HVAC1 - FLOOR 2

Panel Schedule															
HVAC2 Location: Garage Volts: 480Y/2770V Phase: 3 Wire: 4 Hertz: 60															
MLO Main AIC: N/A Branch AIC: 14,000 ENCL (NEMA): 1 MTG: Surface															
125 Amp Frame , Ground Bar, Locking Cover, Panel Card.															
Description of Load Served	Breaker		Wire	A/Phase			CKT No.	CKT No.	A/Phase			Wire	Breaker		Description of Load Served
	Amp	Pole		A	B	C			A	B	C		Amp	Pole	
HVAC 2	60		EX	EX	B		1	2	EX	B	C	EX		3	HVAC 3
					EX		3	4		EX					
						EX	5	6			EX				
HVAC 1	60		EX	EX			7	8	EX			EX		3	HVAC 4
					EX		9	10		EX					
						EX	11	12			EX				
HVAC 5	60		EX	EX			13	14	EX					1	SPACE
					EX		15	16		EX				1	SPACE
SPACE			1			EX	17	18			EX			1	SPACE
							19	20	EX					1	SPACE

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Plotted By:Erwin, Wastin Sheet Set:PPA General Maintenance Repairs - Old City Layout:E604 August 19, 2024 08:14:30am
P:\Projects\2024\0814\PPA\PPA.dwg

PANEL LPGR - JANITORS CLOSET

2
E-604

HAND DRYER PANEL - JANITORS CLOSET

N.T.S.

3
-604

PANEL GLP - ELECTRICAL ROOM
N.T.S.

4 PANEL ELP - ELECTRICAL ROOM
-604 N.T.S.

PANEL EHP - ELECTRICAL ROOM
N.T.S.

6
E-604

UNLABELED EMERGENCY PANEL - EXISTING ELECTRICAL ROOM

N.T.S.

7
E-604

PANEL LRP - EXISTING ELECTRICAL ROOM

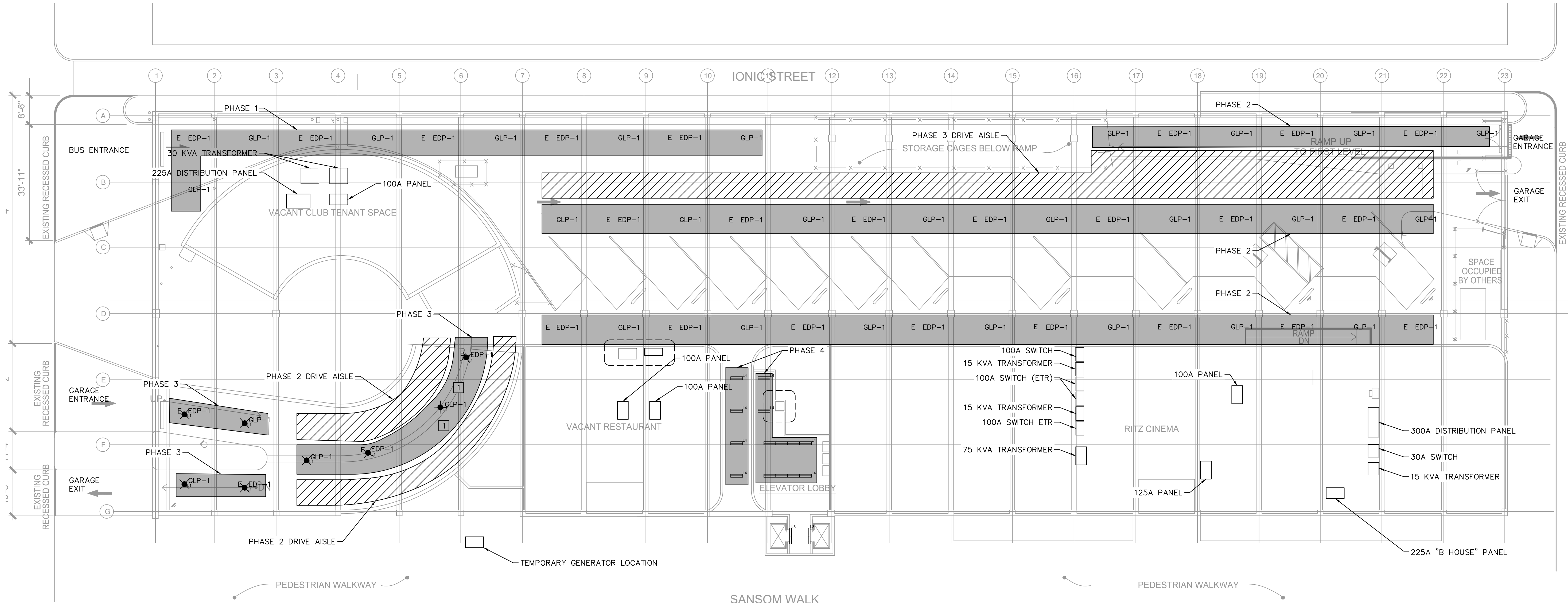
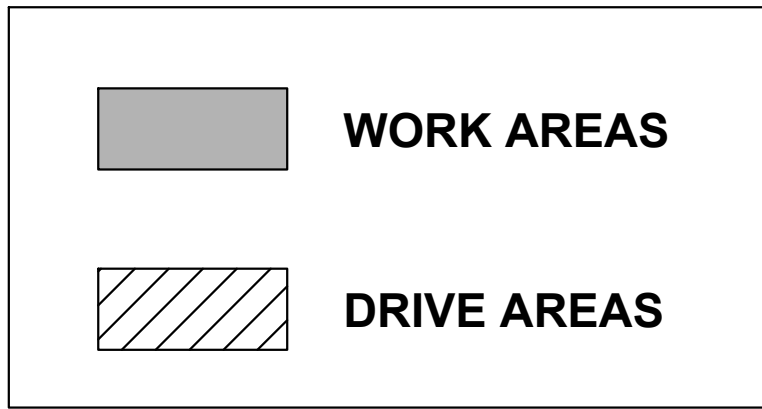
N.T.S.

8
E-604

PANEL EDP - EXISTING ELECTRICAL ROOM

N.T.S.

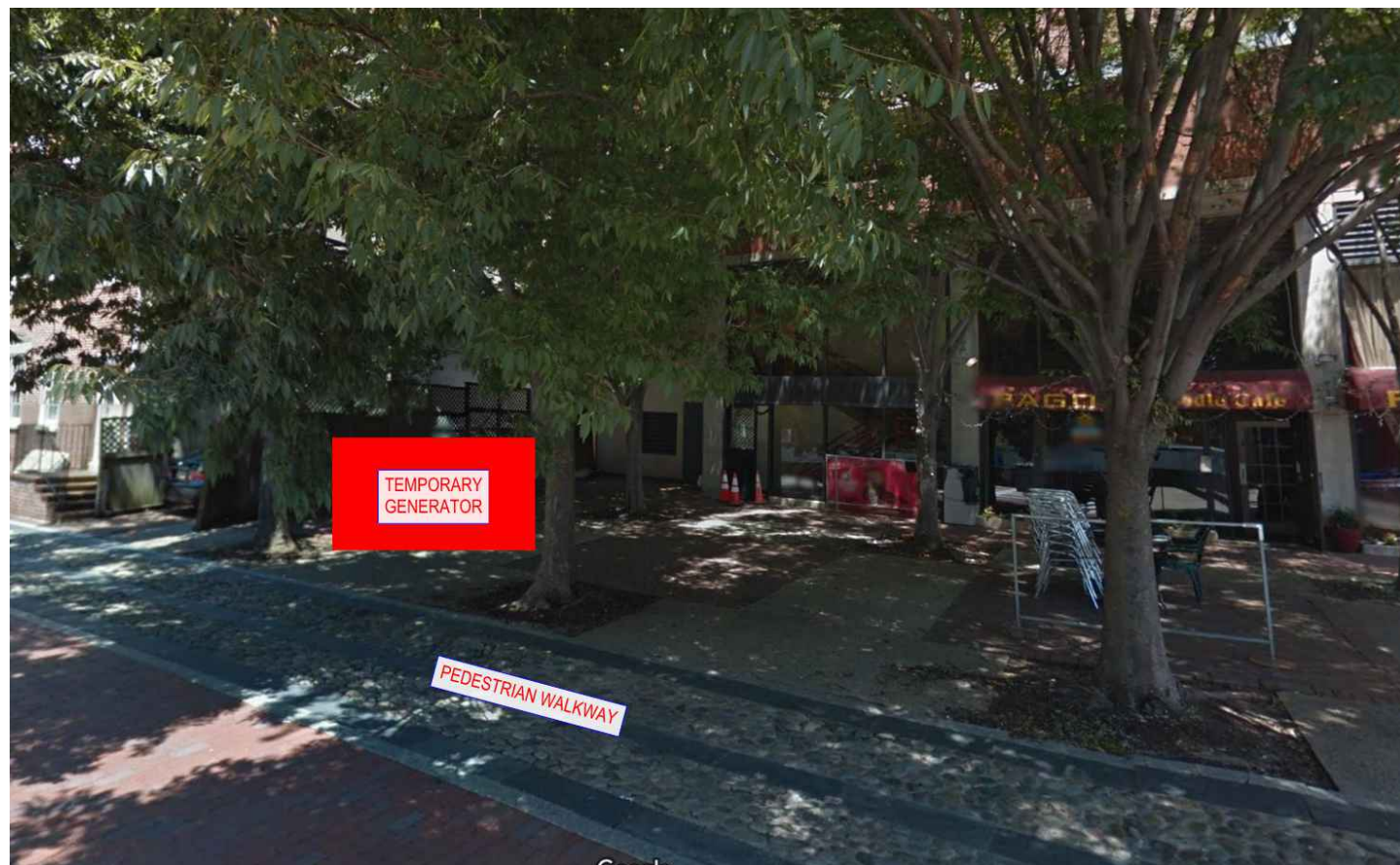
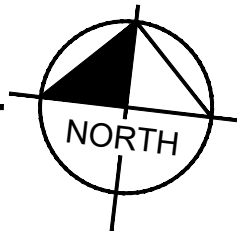
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- PHASING PLAN NOTES:
1. PHASE 1 — BUS ENTRANCE TO GARAGE WILL BE CLOSED. COORDINATE WITH PPA FOR WHEN WORK CAN BE DONE.
 2. PHASE 2 — EAST GARAGE ENTRANCE WILL BE CLOSED. COORDINATE WITH PPA FOR WHEN WORK CAN BE DONE.
 3. PHASE 3 — WEST GARAGE ENTRANCE AND EXIT WILL BE CLOSED. COORDINATE WITH PPA FOR WHEN WORK CAN BE DONE.
 4. PHASE 4 — PEDESTRIAN WALKWAY WILL BE CLOSED AND ELEVATOR LOBBY WILL REMAIN OPEN. COORDINATE WITH PPA FOR WHEN WORK CAN BE DONE.

1
E-300
1"=15'

PHASING PLANS - GROUNDING FLOOR



TEMPORARY GENERATOR LOCATION

1	ADDENDUM #4 REVISION	07/29/24	JCS
2	ADDENDUM #7 REVISION	08/16/24	JCS
No.	REVISIONS	DATE	BY

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LICENSED PROFESSIONAL ENGINEER

JEFFREY C. SALLEE

PE0928003

PA 04560724

KHA PROJECT 112359002
DATE 01/31/2024
SCALE AS SHOWN
DESIGNED BY JCS
DRAWN BY LDH
CHECKED BY LTM

PHASING PLANS -
GROUNDING FLOOR

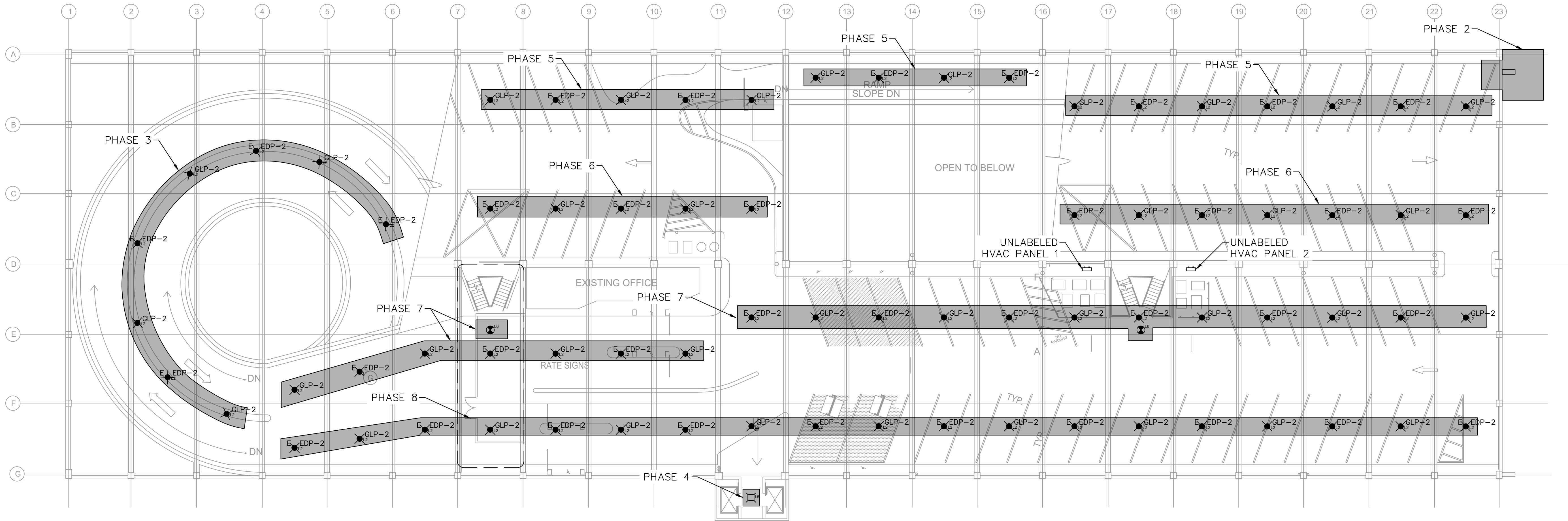
PPA GARAGE MAINTENANCE
REPAIRS - OLD CITY
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY

PENNSYLVANIA
PHILADELPHIA

SHEET NUMBER
E-700

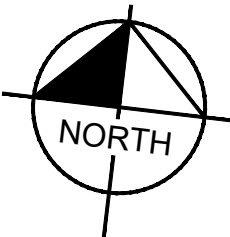
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WORK AREAS



1
E-301
1"=15'

PHASING PLANS - SECOND FLOOR



PHASING PLAN NOTES:

- PHASES 5-8 - CAN BE PERFORMED IN ANY ORDER. DRIVE AISLES TO REMAIN CLEAR DURING WORK. MARK OFF PARKING STALLS AS NEEDED FOR WORK.

1	ADDENDUM #4	REVISION	JCS	07/29/24
2	ADDENDUM #7	REVISION	JCS	08/16/24
No.		REVISIONS		DATE
				BY

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KHA PROJECT	LDH
112359002	LTM
DATE	CHECKED BY
01/31/2024	
SCALE AS SHOWN	
DESIGNED BY JCS	
DRAWN BY	

PHASING PLANS -
SECOND FLOOR

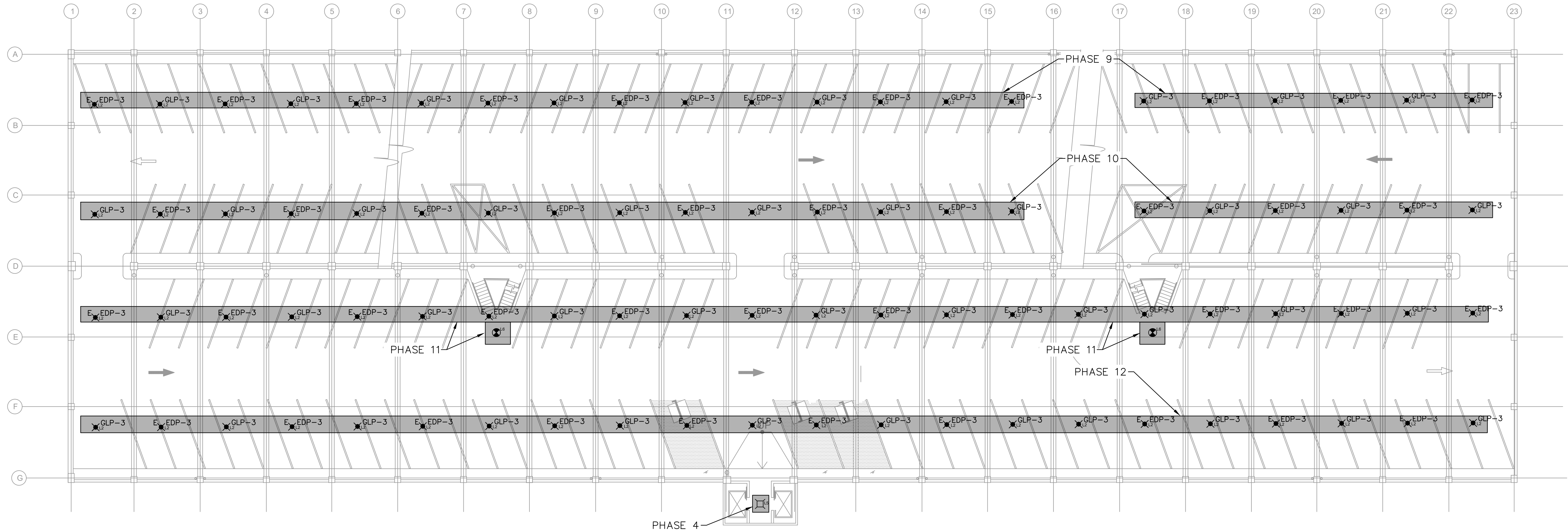
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PHILADELPHIA
PENNSYLVANIA

SHEET NUMBER
E-701

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs - Old City Layout:E-702 August 19, 2024 08:14:55am K:\VAB\SYSTEMS\Other_Regions\PPA\CADD\Plan sheets\OLD_CITY\WORK PHASING.dwg
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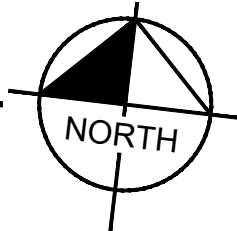
WORK AREAS



1
E-302

PHASING PLANS - THIRD FLOOR

1"=15'



PHASING PLAN NOTES:

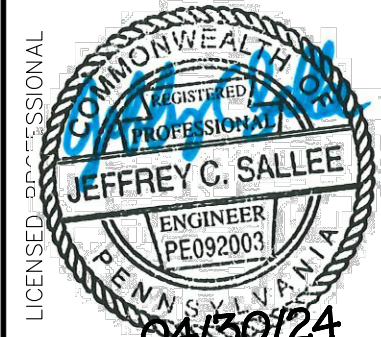
- PHASES 9-12 - CAN BE PERFORMED IN ANY ORDER. DRIVE AISLES TO REMAIN CLEAR DURING WORK. MARK OFF PARKING STALLS AS NEEDED FOR WORK.

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PENNSYLVANIA

SHEET NUMBER
E-702

PHASING PLANS -
THIRD FLOOR

KHA PROJECT
112359002
DATE
01/31/2024
SCALE AS SHOWN
DESIGNED BY JCS
DRAWN BY LDH
CHECKED BY LTM

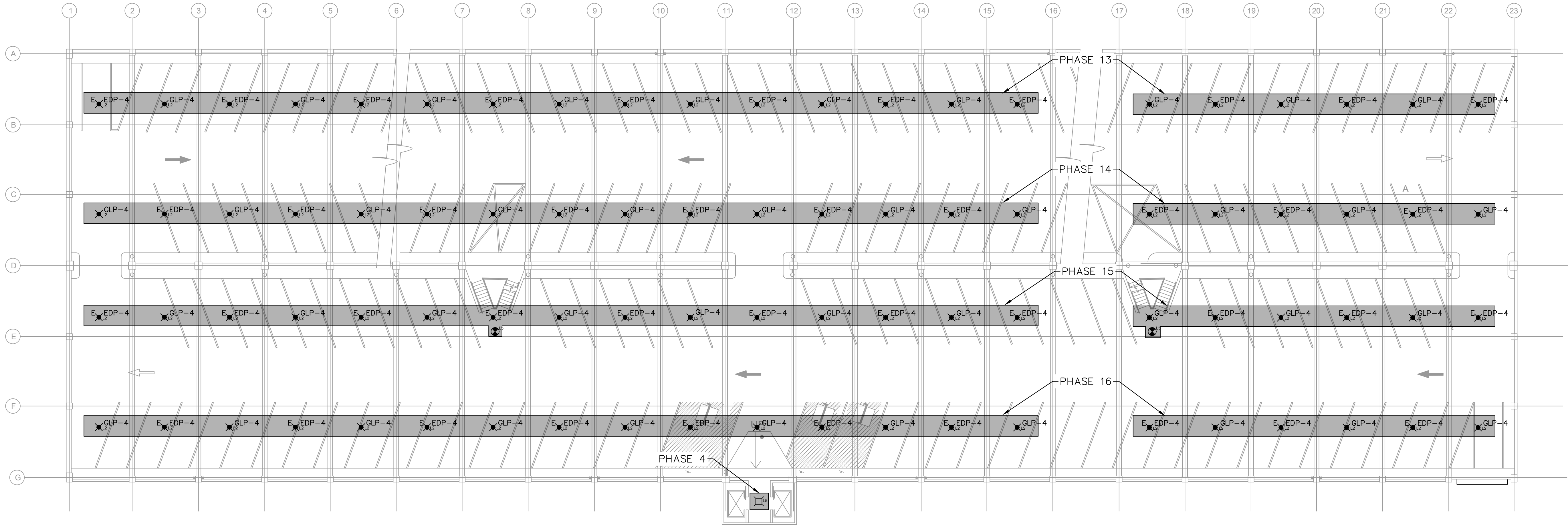


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1	ADDENDUM #4 REVISION	07/29/24	JCS
2	ADDENDUM #7 REVISION	08/16/24	JCS
No.	REVISIONS	DATE	BY

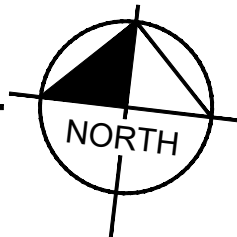
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WORK AREAS



1
E-303
1"=15'

PHASING PLANS - FOURTH FLOOR

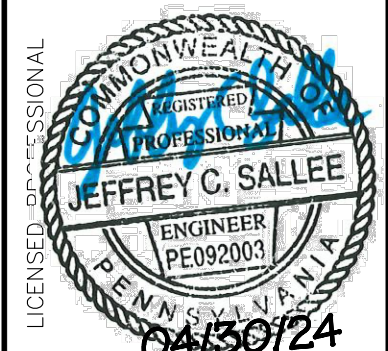


PHASING PLAN NOTES:

1. PHASES 13-16 - CAN BE PERFORMED IN ANY ORDER. DRIVE AISLES TO REMAIN CLEAR DURING WORK. MARK OFF PARKING STALLS AS NEEDED FOR WORK.

1	ADDENDUM #4	REVISION	JCS	07/29/24	JCS
2	ADDENDUM #7	REVISION	JCS	08/16/24	JCS
No.		REVISIONS		DATE	BY

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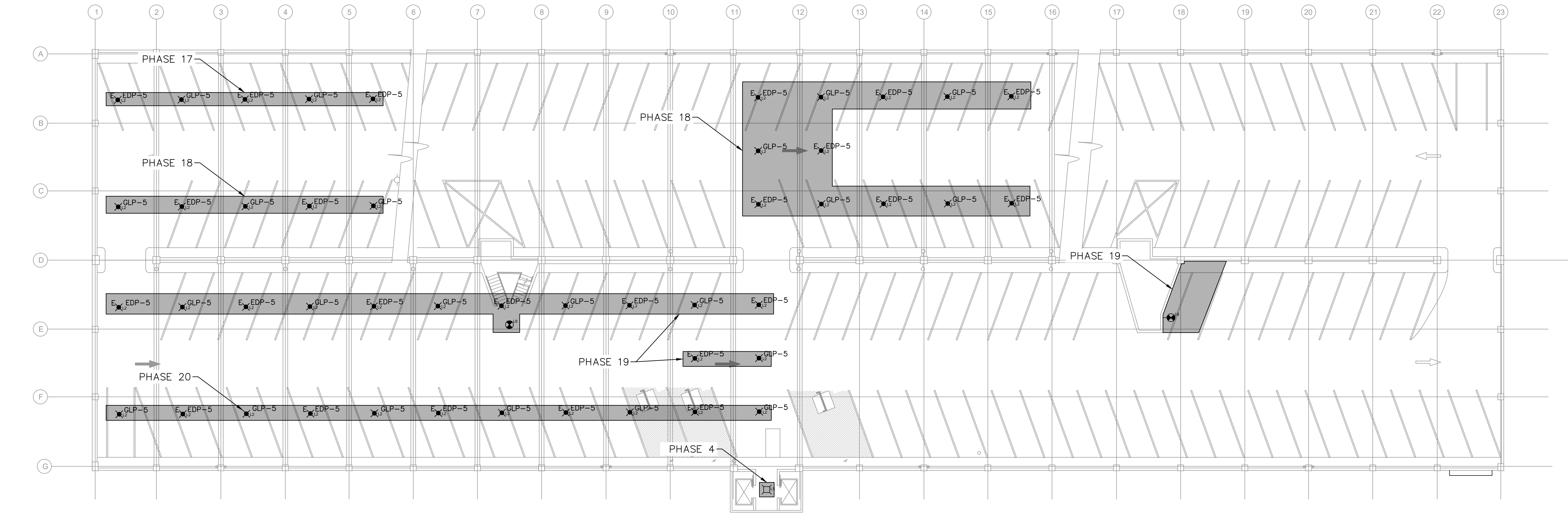
KHA PROJECT	112359002	DATE	01/31/2024	SCALE	AS SHOWN	DESIGNED BY	JCS	DRAWN BY	LDH	CHECKED BY	LTM
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PPA GARAGE MAINTENANCE
REPAIRS - OLD CITY
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PHILADELPHIA PARKING
AUTHORITY
PENNSYLVANIA

SHEET NUMBER
E-703

PHASING PLANS -
FOURTH FLOOR

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1. PHASES 17-20 - CAN BE PERFORMED IN ANY ORDER. DRIVE AISLES TO REMAIN CLEAR DURING WORK. MARK OFF PARKING STALLS AS NEEDED FOR WORK.

PHASING PLANS - FOURTH FLOOR



**PPA GARAGE MAINTENANCE
REPAIRS - OLD CITY
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY**

SHEET NUMBER
E-704

KHA PROJECT	DATE	SCALE	AS SHOWN	DESIGNED BY	JCS	DRAWN BY	LDH	CHECKED BY	IM
112359002	01/31/2024								

PHASING PLANS - FOURTH FLOOR

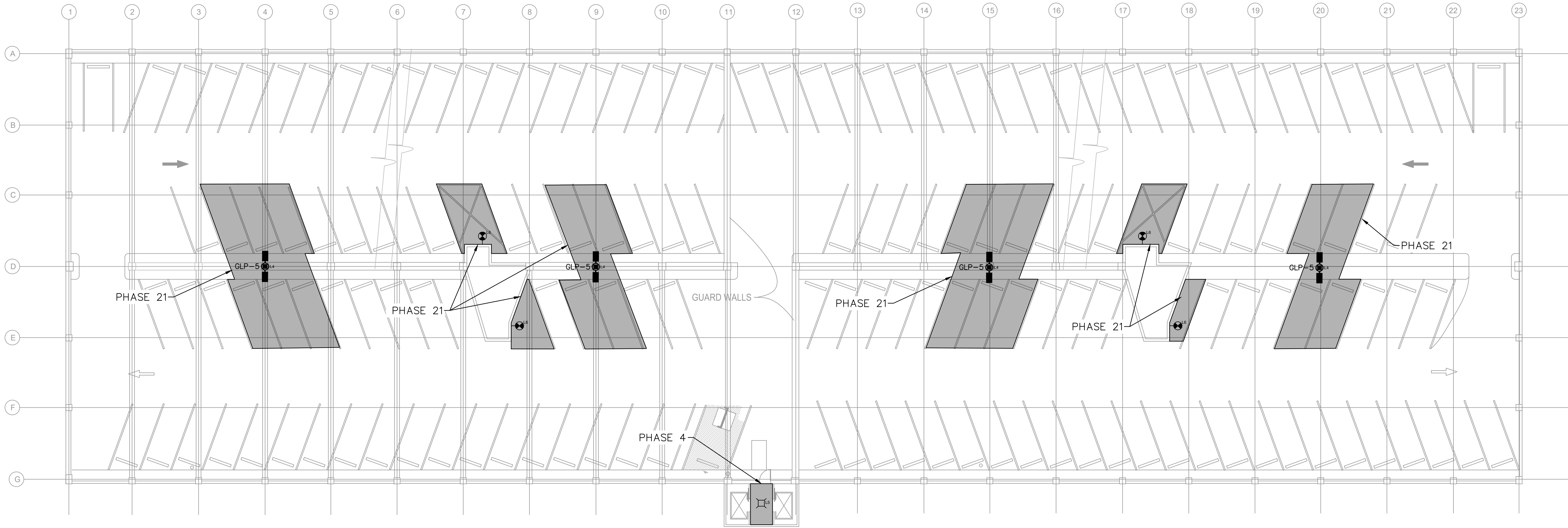


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No	ADDENDUM #4 REVISION	DATE	BY
1	ADDENDUM #7 REVISION	07/29/24	JCS
2		08/16/24	JCS

Plotted By:Erwin, Westin Sheet Set:PPA Garage Maintenance Repairs - Old City Layout:E-705 August 19, 2024 08:15:11am K:\VAB_SYSTEMS\Other_Regions\PPA\CADD\Plansheets\OLD CITY\WORK PHASING.dwg
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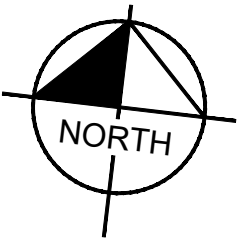
WORK AREAS



PHASING PLAN NOTES:
1. PHASE 21 - DRIVE AISLES TO REMAIN CLEAR DURING WORK. MARK OFF PARKING STALLS AS NEEDED FOR WORK.

1
E-305
1"=15'

PHASING PLANS - ROOF



PPA GARAGE MAINTENANCE
REPAIRS - OLD CITY
PREPARED FOR
PHILADELPHIA PARKING
AUTHORITY
PHILADELPHIA PENNSYLVANIA

PHASING PLANS -
ROOF

KHA PROJECT
112359002
DATE
01/31/2024
SCALE AS SHOWN
DESIGNED BY JCS
DRAWN BY LDH
CHECKED BY LTM



Kimley»Horn
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1	ADDENDUM #4	REVISION	07/29/24	JCS
2	ADDENDUM #7	REVISION	08/16/24	JCS
No.		REVISIONS	DATE	BY