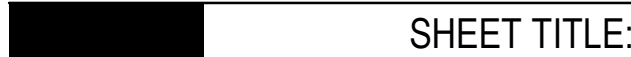


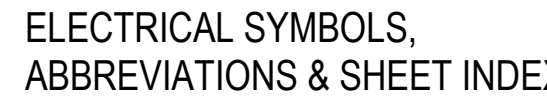
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SHEET NUMBER:

SHEET NUMBER:

SHEET TITLE:

ELECTRICAL SYMBOLS,
ABBREVIATIONS & SHEET INDEX

SHEET TITLE:

ELECTRICAL SYMBOLS,
ABBREVIATIONS & SHEET INDEX

SHEET TITLE:

ELECTRICAL SYMBOLS, ABBREVIATIONS & SHEET INDEX

SHEET TITLE:

ELECTRICAL SYMBOLS, ABBREVIATIONS & SHEET INDEX

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ABBREVIATIONS & SHEET INDEX

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ABBREVIATIONS & SHEET INDEX

SHEET TITLE:

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ABBREVIATIONS & SHEET INDEX

SHEET TITLE:

ELECTRICAL SYMBOLS,
ABBREVIATIONS & SHEET INDEX

SHEET TITLE:

ELECTRICAL SYMBOLS,
ABBREVIATIONS & SHEET INDEX

SHEET NUMBER:

E_001

1001

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	1	2	3	4	5
		RACEWAYS AND BOXES	EQUIPMENT AND PANELBOARDS	WIRING DEVICES	
		BUSWAY - RATING AND TYPE AS INDICATED ON DRAWINGS MULTI-OUTLET RACEWAY ASSEMBLY - WALL MOUNTED 1'-6" AFF, UOI MANHOLE HH HANDHOLE PB PULL BOX JXB JUNCTION BOX CTB CABLE TAP BOX F FLOOR BOX - FLUSH - OUTLET TYPES REQUIRED AT EACH BOX AS INDICATED ON DRAWINGS P POKE THRU - FLOOR MOUNTED - OUTLET TYPES REQUIRED AT EACH BOX AS INDICATED ON DRAWINGS PP POWER POLE - OUTLET TYPES REQUIRED AT EACH BOX AS INDICATED ON DRAWINGS	TRANSFORMER - (X) INDICATES DESIGNATION CT CURRENT TRANSFORMER CABINET M METER MGB MAIN GROUND BAR DISTRIBUTION CIRCUIT PANELBOARD - SURFACE MOUNTED - (X) INDICATES DESIGNATION BRANCH CIRCUIT PANELBOARD - RECESSED MOUNTED - (X) INDICATES DESIGNATION BRANCH CIRCUIT PANELBOARD - SURFACE MOUNTED - (X) INDICATES DESIGNATION	TYPE ABBREVIATIONS: (AF) ARC-FAULT CIRCUIT INTERRUPTER (GF) GROUND FAULT CIRCUIT INTERRUPTING (TR) TAMPER RESISTANT (USB) RECEPTACLE WITH ONE TYPE A AND ONE TYPE C USB CHARGING PORTS. 2 AMP CHARGING MINIMUM. (WP-D) DAMP LOCATION WITH WEATHERPROOF COVER (WP-W) WET LOCATION WITH WEATHERPROOF IN-USE COVER (WR) WEATHER RESISTANT Y X Y DUPLEX RECEPTACLE - MOUNTED FLUSH IN COUNTERTOP - (X) INDICATES CIRCUIT NUMBER (PANEL BOUNDARY AS INDICATED ON DRAWINGS) - (Y) INDICATES TYPE C Y X DUPLEX RECEPTACLE - MOUNTED FLUSH IN CEILING - (X) INDICATES CIRCUIT NUMBER (PANEL BOUNDARY AS INDICATED ON DRAWINGS) - (Y) INDICATES TYPE C Y X QUADPLEX RECEPTACLE - MOUNTED FLUSH IN CEILING - (X) INDICATES CIRCUIT NUMBER (PANEL BOUNDARY AS INDICATED ON DRAWINGS) - (Y) INDICATES TYPE Y X Y SIMPLEX OUTLET - MOUNT 1'-6" AFF UOI - (Y) INDICATES TYPE X Y X SPECIAL PURPOSE OUTLET (SPO) - (X) INDICATES SPO DESIGNATION X Y X MOTOR CONNECTION - (X) INDICATES MOTOR DESIGNATION Y X Y TV / POWER OUTLET BOX 6'-8" AFF UOI. Y X Y PUSHBUTTON - MOUNTED 3'-8" AFF UOI	
		FIRE ALARM	VOICE / DATA		TELECOMMUNICATIONS EQUIPMENT
		FIRE ALARM PANEL - SEMI-FLUSH MOUNTED - (X) INDICATES DESIGNATION (FAAP) ANNUNCIATOR PANEL (FACU) CONTROL UNIT (NAC) NAC PANEL (FSS) FIRE SUPPRESSION CONTROL PANEL FIRE ALARM PANEL - SURFACE MOUNTED - (X) INDICATES DESIGNATION (FAAP) ANNUNCIATOR PANEL (FACU) CONTROL UNIT (NAC) NAC PANEL (FSS) FIRE SUPPRESSION CONTROL PANEL FIRE FIGHTER'S TELEPHONE JACK - MOUNTED 3'-8" AFF UOI FIRE FIGHTER'S HAND SET - MOUNTED 3'-8" AFF UOI PULL STATION - MOUNTED 3'-8" AFF UOI H XX HEAT DETECTOR - CEILING MOUNTED - (X) INDICATES TYPE: - (PR) PRISM REFLECTOR - (RE) RECEIVER - (TR) TRANSMITTER - (TR/RE) TRANSMITTER / RECEIVER IN ONE XX B XX BEAM SMOKE DETECTOR - WALL MOUNTED - (X) INDICATES TYPE: - (CTL) CONTROLLER - (PR) PRISM REFLECTOR - (RE) RECEIVER - (TR) TRANSMITTER - (TR/RE) TRANSMITTER / RECEIVER IN ONE XX CO XX CARBON MONOXIDE DETECTOR - CEILING MOUNTED - (X) INDICATES TYPE: (NONE) STANDARD (MS) MULTIPLE STATION (SB) SOUNDER BASE (SS) SINGLE STATION XX CO XX CARBON MONOXIDE DETECTOR - WALL MOUNTED 1'-0" BFC UOI - (X) INDICATES TYPE: (NONE) STANDARD (MS) MULTIPLE STATION (SB) SOUNDER BASE (SS) SINGLE STATION DS DUCT SMOKE DETECTOR - REMOTE TEST SWITCH AND / OR INDICATOR R FAN SHUTDOWN RELAY SD SMOKE DAMPER DH MAGNETIC DOOR HOLDER CM CONTROL MODULE MM MONITOR MODULE FS FLOW SWITCH TS TAMPER SWITCH PE PRESSURE SWITCH EOL END OF LINE RESISTOR X H X FIRE ALARM STROBE NOTIFICATION APPLIANCE - WALL MOUNTED 6'-8" AFF OR 6' BFC, WHICHEVER IS LOWER X H X FIRE ALARM STROBE NOTIFICATION APPLIANCE - CEILING MOUNTED - (X) INDICATES STROBE CANDELA RATING X H X FIRE ALARM HORN / STROBE NOTIFICATION APPLIANCE - WALL MOUNTED 6'-8" AFF OR 6' BFC, WHICHEVER IS LOWER X H X FIRE ALARM HORN / STROBE NOTIFICATION APPLIANCE - CEILING MOUNTED - (X) INDICATES STROBE CANDELA RATING X H X FIRE ALARM BELL - WALL MOUNTED 6'-8" AFG UOI C #X Y VOICE / DATA OUTLET - WALL MOUNTED 1'-6" AFF UOI - (C) INDICATES MOUNTED 6" ABOVE COUNTER BACKSPLASH, UOI - (X) INDICATES QUANTITY AND TYPE (A) AUXILIARY (D) DATA (H) HDMI (R) RCA (U) USB (V) VOICE (VG) VGA (W) WALL PHONE MOUNTED AT 44" AFF (X) COAX X Y X VOICE / DATA OUTLET - CEILING MOUNTED - (X) INDICATES TYPE (A) AUXILIARY (D) DATA (H) HDMI (R) RCA (U) USB (V) VOICE (VG) VGA (W) WALL PHONE MOUNTED AT 44" AFF (X) COAX WAP WIRELESS ACCESS POINT - CEILING MOUNTED - SUPPLY 10' - 0" SERVICE COIL - PROVIDE (2) CATEGORY 6A CABLES PTWP PASS THRU WALL PLATE #X Y X VOICE / DATA FURNITURE FEED - WALL MOUNTED 1'-0" AFF UOI - (X) INDICATES QUANTITY AND TYPE (D) DATA (V) VOICE TGB GROUND BAR - LADDER TRAY - (X) INDICATES WIDTH - (Y) INDICATES DEPTH XX Y XX BASKET TRAY - (X) INDICATES WIDTH - (Y) INDICATES DEPTH XX Y XX WIRE MESH TRAY - (X) INDICATES WIDTH - (Y) INDICATES DEPTH IT X IT CABINET - (X) INDICATES DESIGNATION BB X 3/4" PLYWOOD BACKBOARD - (X) INDICATES DESIGNATION IT X FLOOR MOUNTED TWO POST IT RACK - (X) INDICATES DESIGNATION IT X FLOOR MOUNTED FOUR POST IT RACK - (X) INDICATES DESIGNATION			

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PROJECT TITLE:

OVERTURE CENTER GARAGE
ELECTRICAL UPGRADES

318 WEST MIFFLIN STREET
MADISON, WI

ISSUE:

10/17/2025 FINAL REVIEW SET

PROJECT INFORMATION:

PROJECT NUMBER: 2025-5004.02

DATE: 10/17/2025

DRAWN BY: DJK

CHECKED BY: DJK

APPROVED BY: DJK

SCALE: AS NOTED

SHEET TITLE:

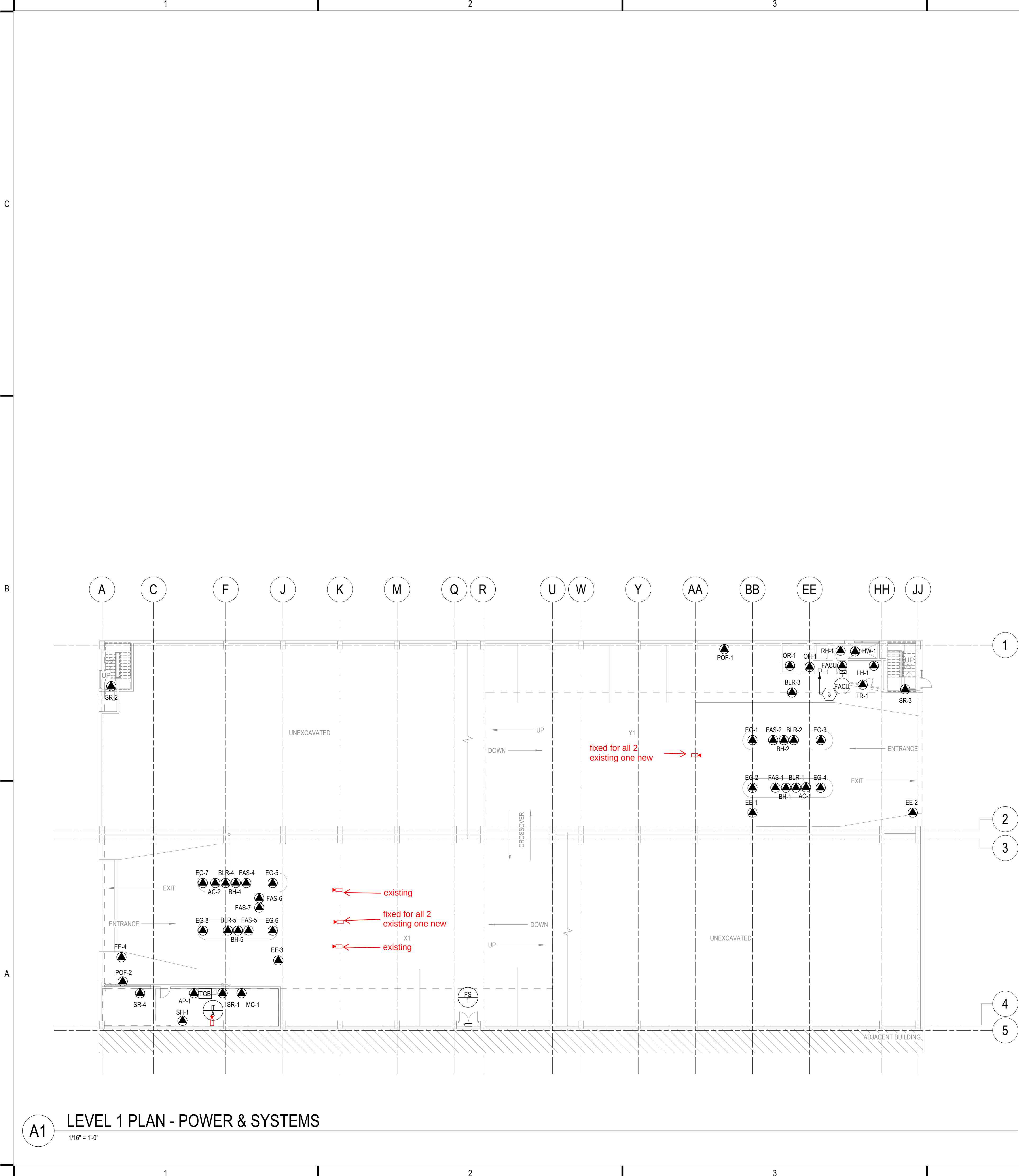
ELECTRICAL SYMBOLS
CONTINUED

SHEET NUMBER:

E-002

NOT FOR CONSTRUCTION

10/17/2025 3:13:43 PM



A1 LEVEL 1 PLAN - POWER & SYSTEMS
1/16" = 1'-0"

PROJECT GENERAL NOTES

A. EXISTING PROJECT CONDITIONS:
a. INFORMATION PERTAINING TO EXISTING PROJECT CONDITIONS, SUCH AS LOCATIONS OF ARCHITECTURAL AND STRUCTURAL BUILDING COMPONENTS, MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING, DUCTWORK, ROUGH-INS AND OTHER MISCELLANEOUS CONSTRUCTION, APPEARS ON PROJECT DRAWINGS. THIS INFORMATION IS BASED ON AVAILABLE RECORDS AS WELL AS INFORMATION COLLECTED WITH REASONABLE CARE AT THE PROJECT SITE. CONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR VERIFYING DIMENSIONS AND RELATED INFORMATION AT THE PROJECT SITE PRIOR TO PROCURING ANY MATERIALS, PRODUCTS OR EQUIPMENT TO PERFORM THEIR WORK.

GENERAL SHEET NOTES

A. ROUTE CONDUITS IN BEAM CAVITY GOING PLAN NORTH AND SOUTH. ROUTE CONDUITS GOING EAST AND WEST ALONG COLUMNS 1 AND 4. KEEP ALL CONDUITS ABOVE 8'-0" TO MAINTAIN GARAGE CLEARANCES. SEE DETAILS ON SHEET E-502 FOR MORE INFORMATION.
B. ROUTE CONDUITS TO NEXT LEVEL FROM IN BETWEEN GRID LINES 2 AND 3, F AND Q, W AND EE. FLOOR CAN BE CORED BETWEEN A AND C NEAR GRID 4 SEE PENETRATION DETAIL ON ARCHITECTURAL DRAWINGS. IF MORE PENETRATIONS ARE NEEDED THE FLOOR IS POST TENSION AND NEEDS TO BE SURVEYED BEFORE CORING.

SHEET KEYNOTES

3 PROVIDE A GENERATOR ANNUNCIATOR IN OFFICE. VERIFY FINAL LOCATON WITH OWNER PRIOR TO INSTALL. PROVIDE CABLING (PER MANUFACTURER'S REQUIREMENTS) BETWEEN ATS, GENERATOR, AND REMOTE ANNUNCIATOR LOCATION. ROUTE IN 1/2" RACEWAY.



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PROJECT TITLE:
OVERTURE CENTER GARAGE
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318 WEST MIFFLIN STREET
MADISON, WI

ISSUE:
10/17/2025 FINAL REVIEW SET

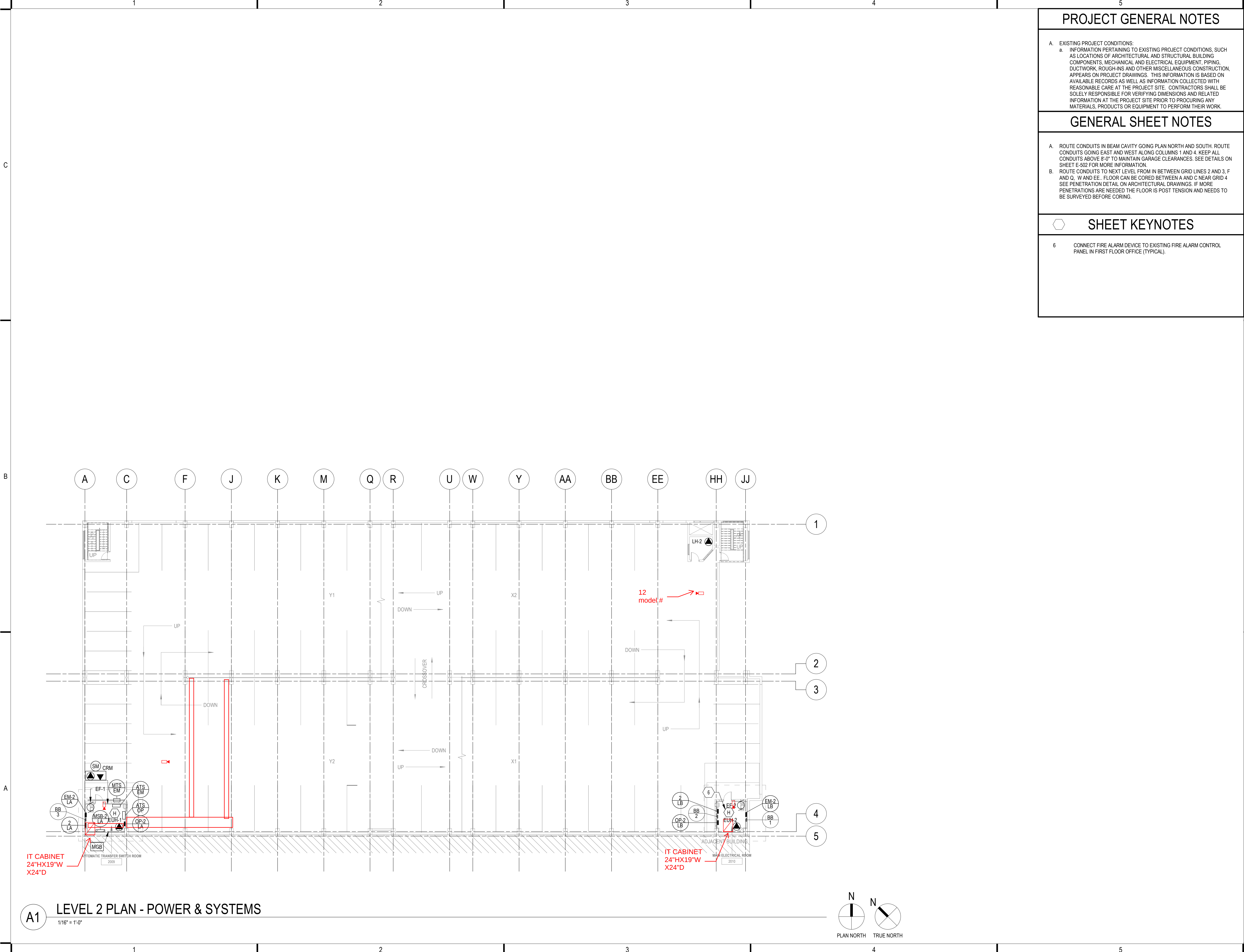
PROJECT INFORMATION:
PROJECT NUMBER: 2025-5004.02
DATE: 10/17/2025
DRAWN BY: DJK
CHECKED BY: DJK
APPROVED BY: DJK
SCALE: AS NOTED

SHEET TITLE:
LEVEL 1 PLAN - POWER &
SYSTEMS

SHEET NUMBER:

E-121

10/17/2025 3:13:44 PM



PROJECT GENERAL NOTES

A. EXISTING PROJECT CONDITIONS:
a. INFORMATION PERTAINING TO EXISTING PROJECT CONDITIONS, SUCH AS LOCATIONS OF ARCHITECTURAL AND STRUCTURAL BUILDING COMPONENTS, MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING, DUCTWORK, ROUGH-INS AND OTHER MISCELLANEOUS CONSTRUCTION, APPEARS ON PROJECT DRAWINGS. THIS INFORMATION IS BASED ON AVAILABLE RECORDS AS WELL AS INFORMATION COLLECTED WITH REASONABLE CARE AT THE PROJECT SITE. CONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR VERIFYING DIMENSIONS AND RELATED INFORMATION AT THE PROJECT SITE PRIOR TO PROCURING ANY MATERIALS, PRODUCTS OR EQUIPMENT TO PERFORM THEIR WORK.

GENERAL SHEET NOTES

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SHEET KEYNOTES

6 CONNECT FIRE ALARM DEVICE TO EXISTING FIRE ALARM CONTROL PANEL IN FIRST FLOOR OFFICE (TYPICAL).



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PROJECT TITLE:
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318 WEST MIFFLIN STREET
MADISON, WI

ISSUE:
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PROJECT INFORMATION:
PROJECT NUMBER: 2025-5004.02
DATE: 10/17/2025
DRAWN BY: DJK
CHECKED BY: DJK
APPROVED BY: DJK
SCALE: AS NOTED

SHEET TITLE:
LEVEL 2 PLAN - POWER &
SYSTEMS

SHEET NUMBER:

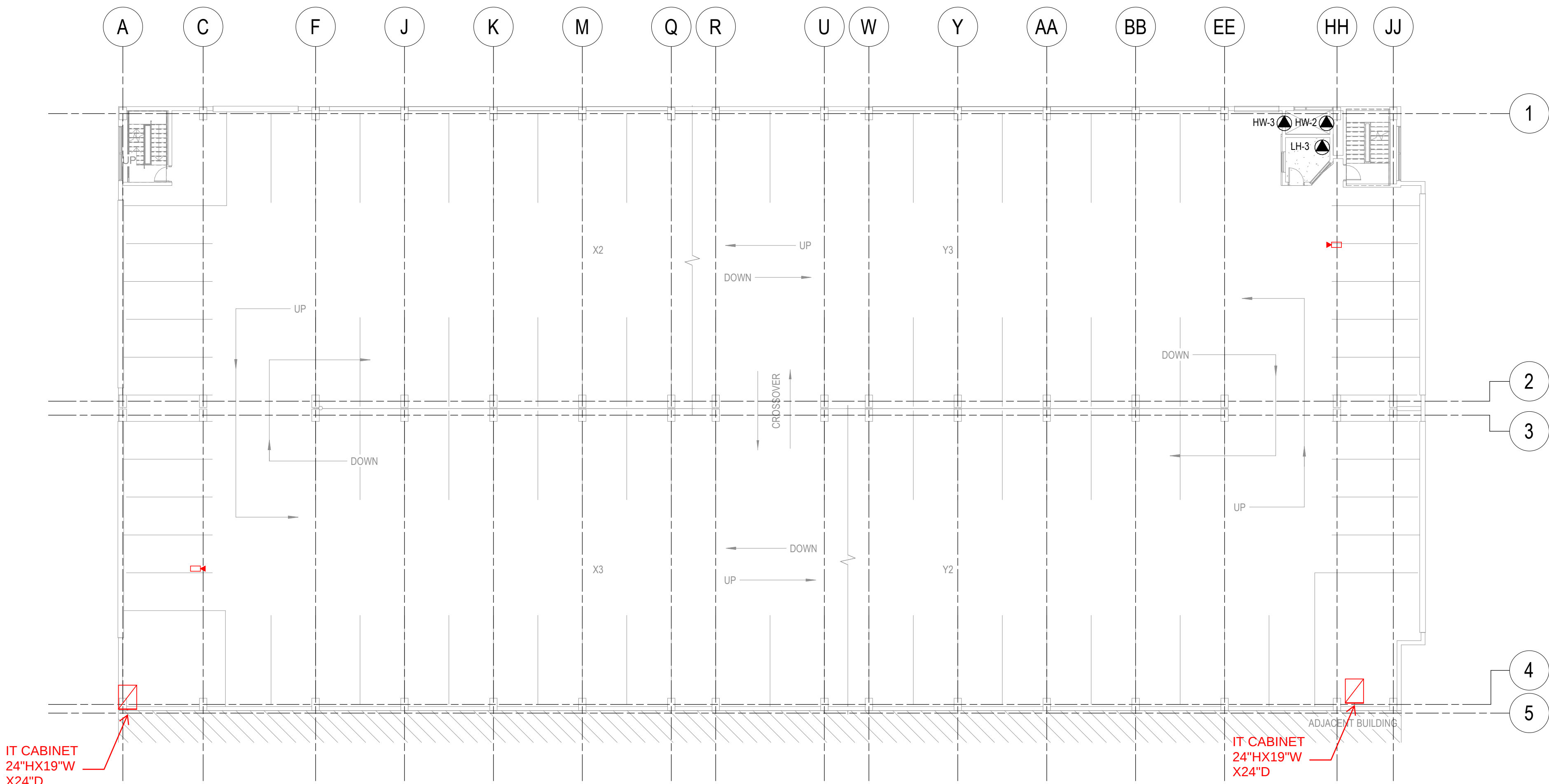
E-122

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C

B

A



A1 LEVEL 3 PLAN - POWER & SYSTEMS
1/16" = 1'-0"

PROJECT GENERAL NOTES

A. EXISTING PROJECT CONDITIONS:
a. INFORMATION PERTAINING TO EXISTING PROJECT CONDITIONS, SUCH AS LOCATIONS OF ARCHITECTURAL AND STRUCTURAL BUILDING COMPONENTS, MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING, DUCTWORK, ROUGH-INS AND OTHER MISCELLANEOUS CONSTRUCTION, APPEARS ON PROJECT DRAWINGS. THIS INFORMATION IS BASED ON AVAILABLE RECORDS AS WELL AS INFORMATION COLLECTED WITH REASONABLE CARE AT THE PROJECT SITE. CONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR VERIFYING DIMENSIONS AND RELATED INFORMATION AT THE PROJECT SITE PRIOR TO PROCURING ANY MATERIALS, PRODUCTS OR EQUIPMENT TO PERFORM THEIR WORK.

GENERAL SHEET NOTES

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SHEET KEYNOTES



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PROJECT TITLE:

OVERTURE CENTER GARAGE
ELECTRICAL UPGRADES

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MADISON, WI

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10/17/2025 FINAL REVIEW SET

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PROJECT INFORMATION:

PROJECT NUMBER: 2025-5004.02
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APPROVED BY: DJK
SCALE: AS NOTED

SHEET TITLE:

LEVEL 3 PLAN - POWER &
SYSTEMS

SHEET NUMBER:

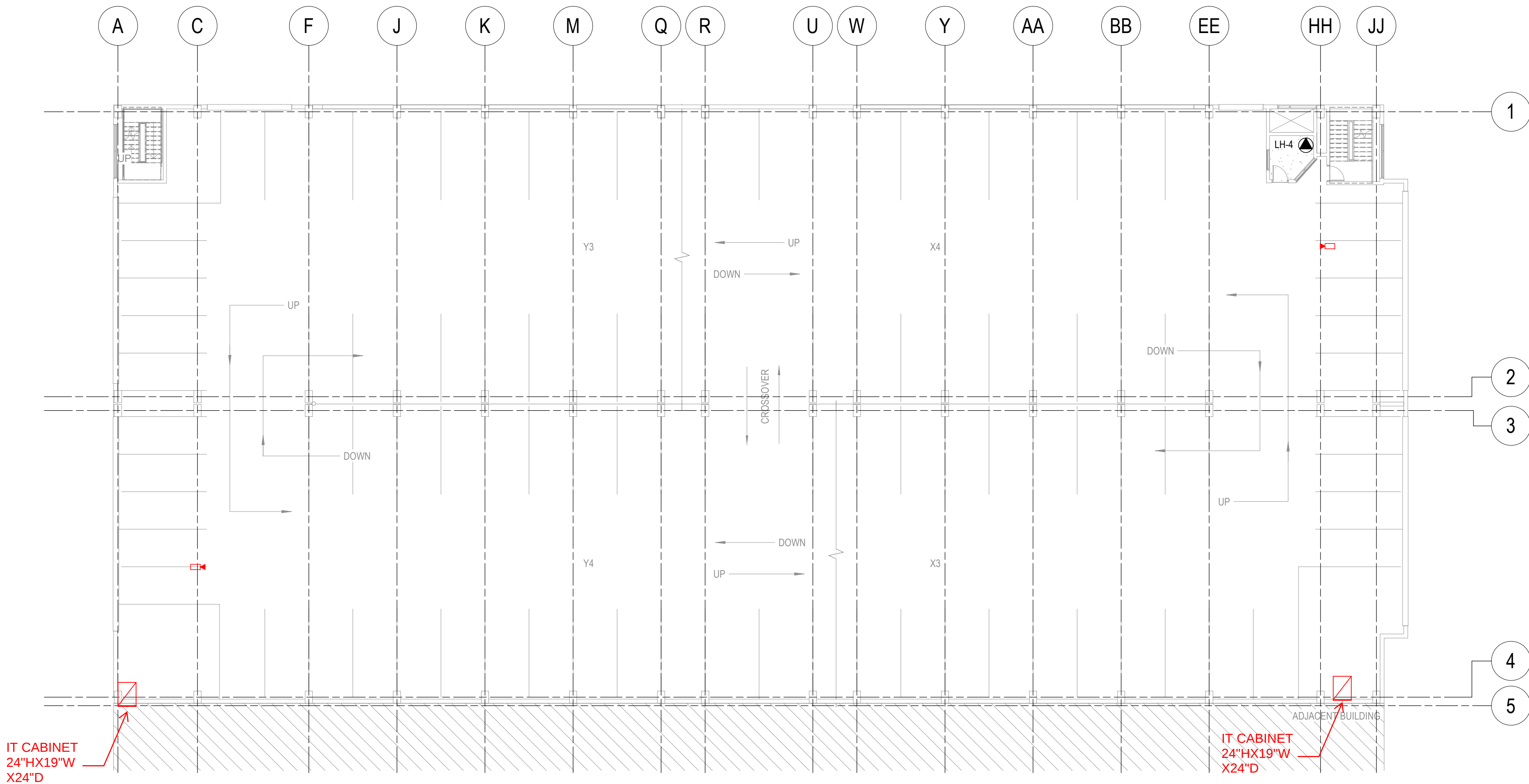
E-123

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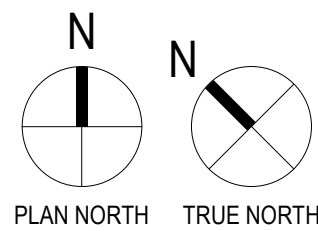
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A1

LEVEL 4 PLAN - POWER & SYSTEMS

1/16" = 1'-0"



PROJECT GENERAL NOTES

A. EXISTING PROJECT CONDITIONS:
a. INFORMATION PERTAINING TO EXISTING PROJECT CONDITIONS, SUCH AS LOCATIONS OF ARCHITECTURAL AND STRUCTURAL BUILDING COMPONENTS, MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING, DUCTWORK, ROUGH-INS AND OTHER MISCELLANEOUS CONSTRUCTION, APPEARS ON PROJECT DRAWINGS. THIS INFORMATION IS BASED ON AVAILABLE RECORDS AS WELL AS INFORMATION COLLECTED WITH REASONABLE CARE AT THE PROJECT SITE. CONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR VERIFYING DIMENSIONS AND RELATED INFORMATION AT THE PROJECT SITE PRIOR TO PROCURING ANY MATERIALS, PRODUCTS OR EQUIPMENT TO PERFORM THEIR WORK.

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SHEET KEYNOTES



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PROJECT TITLE:

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ISSUE:

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PROJECT INFORMATION:

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SHEET TITLE:

LEVEL 4 PLAN - POWER &
SYSTEMS

SHEET NUMBER:

E-124

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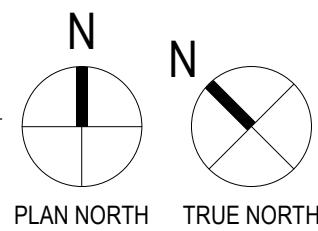
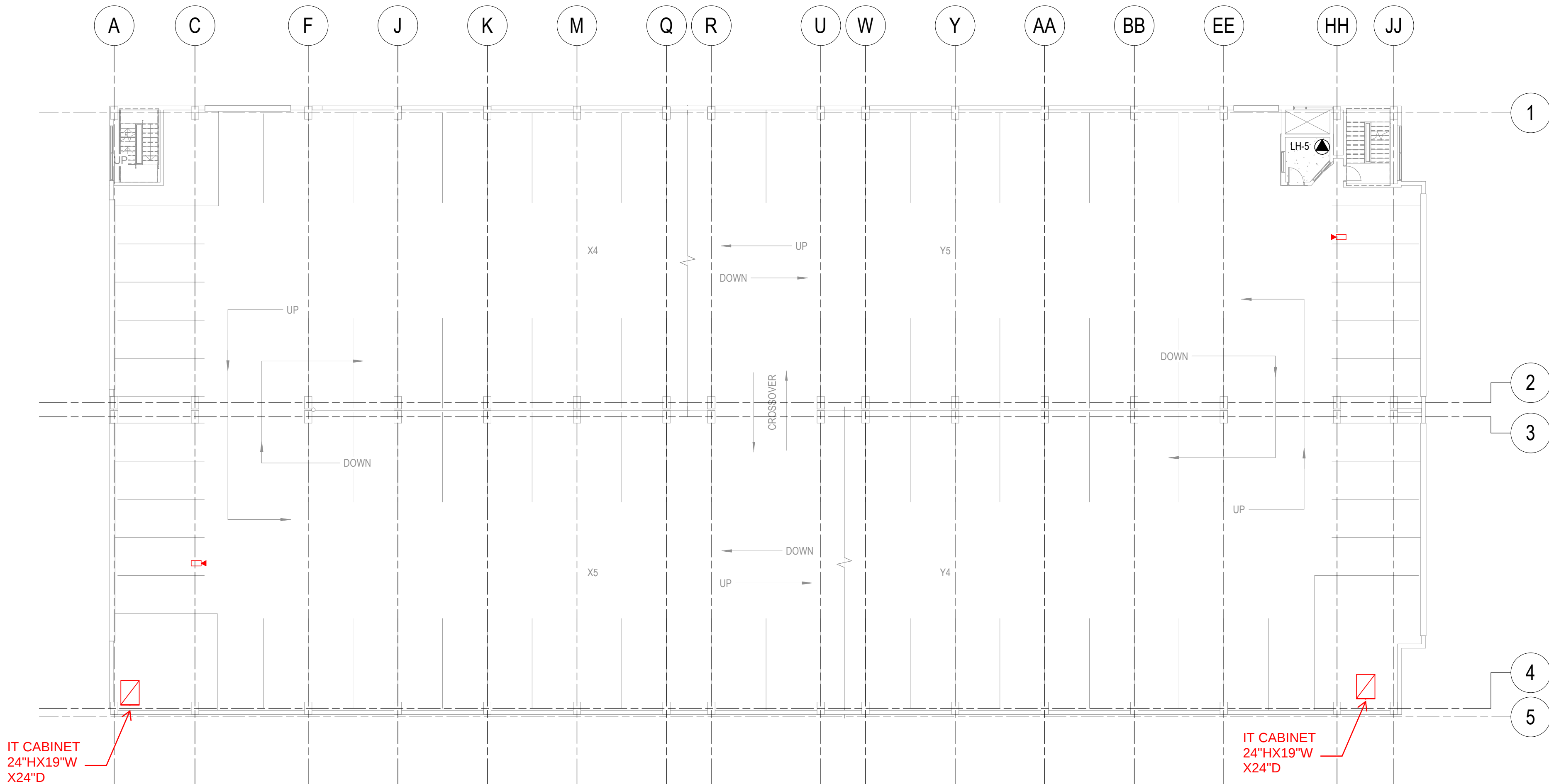
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A

A1

LEVEL 5 PLAN - POWER & SYSTEMS

1/16" = 1'-0"



PROJECT GENERAL NOTES

- A. EXISTING PROJECT CONDITIONS:
a. INFORMATION PERTAINING TO EXISTING PROJECT CONDITIONS, SUCH AS LOCATIONS OF ARCHITECTURAL AND STRUCTURAL BUILDING COMPONENTS, MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING, DUCTWORK, ROUGH-INS AND OTHER MISCELLANEOUS CONSTRUCTION, APPEARS ON PROJECT DRAWINGS. THIS INFORMATION IS BASED ON AVAILABLE RECORDS AS WELL AS INFORMATION COLLECTED WITH REASONABLE CARE AT THE PROJECT SITE. CONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR VERIFYING DIMENSIONS AND RELATED INFORMATION AT THE PROJECT SITE PRIOR TO PROCURING ANY MATERIALS, PRODUCTS OR EQUIPMENT TO PERFORM THEIR WORK.

GENERAL SHEET NOTES

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B. ROUTE CONDUITS TO NEXT LEVEL FROM IN BETWEEN GRID LINES 2 AND 3, F AND Q, W AND EE. FLOOR CAN BE CORED BETWEEN A AND C NEAR GRID 4. SEE PENETRATION DETAIL ON ARCHITECTURAL DRAWINGS. IF MORE PENETRATIONS ARE NEEDED THE FLOOR IS POST TENSION AND NEEDS TO BE SURVEYED BEFORE CORING.



SHEET KEYNOTES

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PROJECT TITLE:

OVERTURE CENTER GARAGE
ELECTRICAL UPGRADES

318 WEST MIFFLIN STREET
MADISON, WI

ISSUE:

10/17/2025 FINAL REVIEW SET

PROJECT INFORMATION:

PROJECT NUMBER: 2025-5004.02
DATE: 10/17/2025
DRAWN BY: DJK
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SCALE: AS NOTED

SHEET TITLE:

LEVEL 5 PLAN - POWER &
SYSTEMS

SHEET NUMBER:

E-125

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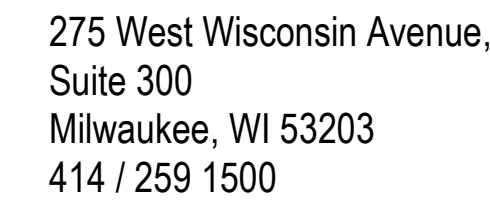
A. EXISTING PROJECT CONDITIONS:

a. INFORMATION PERTAINING TO EXISTING PROJECT CONDITIONS, SUCH AS LOCATIONS OF ARCHITECTURAL AND STRUCTURAL BUILDING COMPONENTS, MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING, DUCTWORK, ROUGH-INS AND OTHER MISCELLANEOUS CONSTRUCTION, APPEARS ON PROJECT DRAWINGS. THIS INFORMATION DEPENDS ON AVAILABLE RECORDS AS WELL AS INFORMATION COLLECTED WITH REASONABLE CARE AT THE PROJECT SITE. CONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR VERIFYING DIMENSIONS AND RELATED INFORMATION AT THE PROJECT SITE PRIOR TO PROCURING ANY MATERIALS, PRODUCTS OR EQUIPMENT TO PERFORM THEIR WORK.

A. ROUTE CONDUITS IN BEAM CAVITY GOING PLAN NORTH AND SOUTH. ROUTE CONDUITS GOING EAST AND WEST ALONG COLUMNS 1 AND 4. KEEP ALL CONDUITS ABOVE 8'-0" TO MAINTAIN GARAGE CLEARANCES. SEE DETAILS ON SHEET E-502 FOR MORE INFORMATION.

B. ROUTE CONDUITS TO NEXT LEVEL FROM IN BETWEEN GRID LINES 2 AND 3, F AND Q, W AND EE. FLOOR CAN BE CORED BETWEEN A AND C NEAR GRID 4 SEE PENETRATION DETAIL ON ARCHITECTURAL DRAWINGS. IF MORE PENETRATIONS ARE NEEDED THE FLOOR IS POST TENSION AND NEEDS TO BE SURVEYED BEFORE CORING.

7 SEE DETAILS ON SHEET E-630 FOR MOUNTING INFORMATION



CLIENT:

PROJECT TITLE:

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ISSUE:

10/17/2025 FINAL REVIEW SET

PROJECT NUMBER: 2025-5004.02

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APPROVED BY: DJK

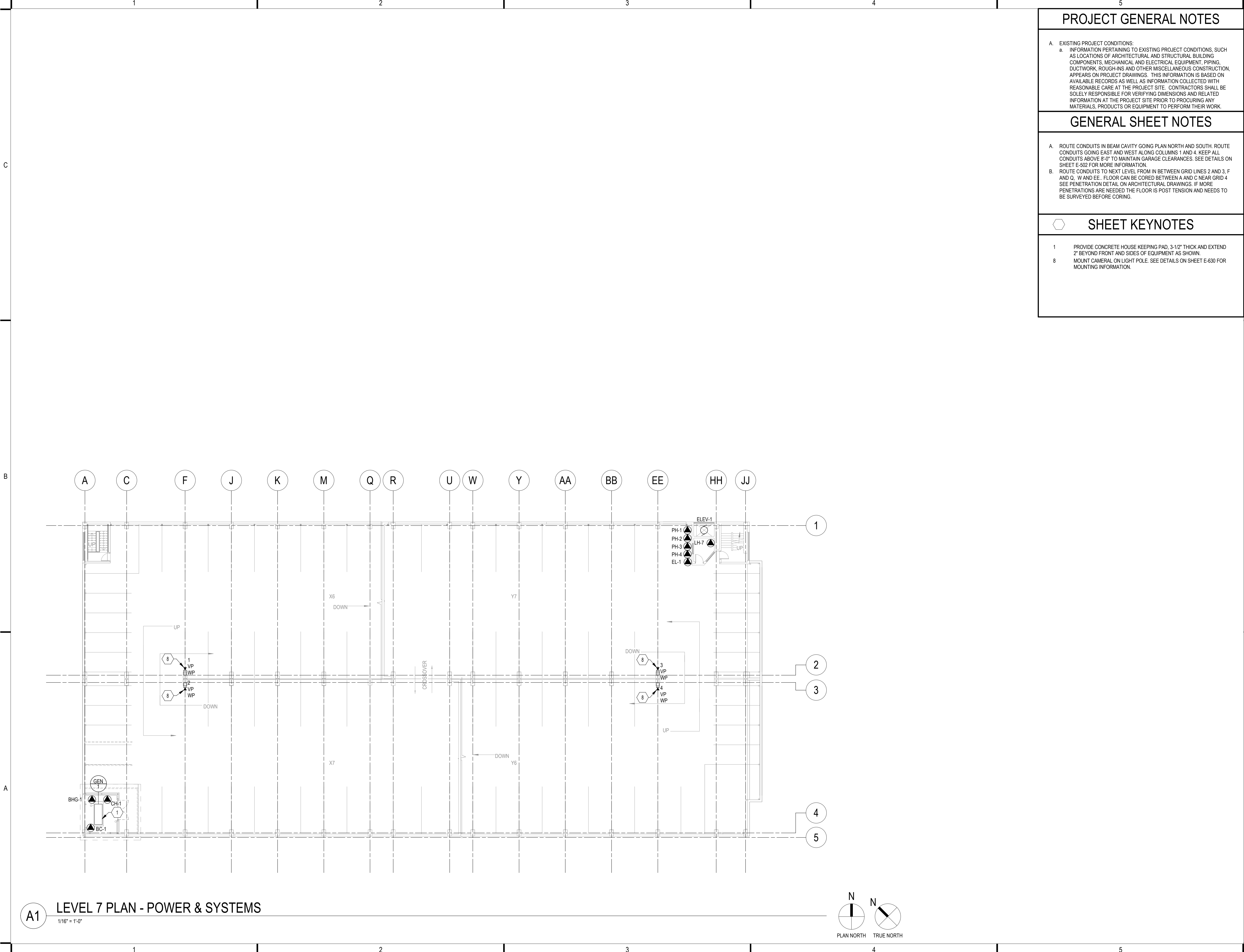
SCALE: AS NOTED

LEVEL 6 PLAN - POWER & SYSTEMS

SHEET NUMBER:

E-126

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PROJECT TITLE:
OVERTURE CENTER GARAGE
ELECTRICAL UPGRADES

318 WEST MIFFLIN STREET
MADISON, WI

ISSUE:
10/17/2025 FINAL REVIEW SET

PROJECT INFORMATION:
PROJECT NUMBER: 2025-5004.02
DATE: 10/17/2025
DRAWN BY: DJK
CHECKED BY: DJK
APPROVED BY: DJK
SCALE: AS NOTED

SHEET TITLE:
LEVEL 7 PLAN - POWER &
SYSTEMS

SHEET NUMBER:

E-127

1

C

B

B

A

A

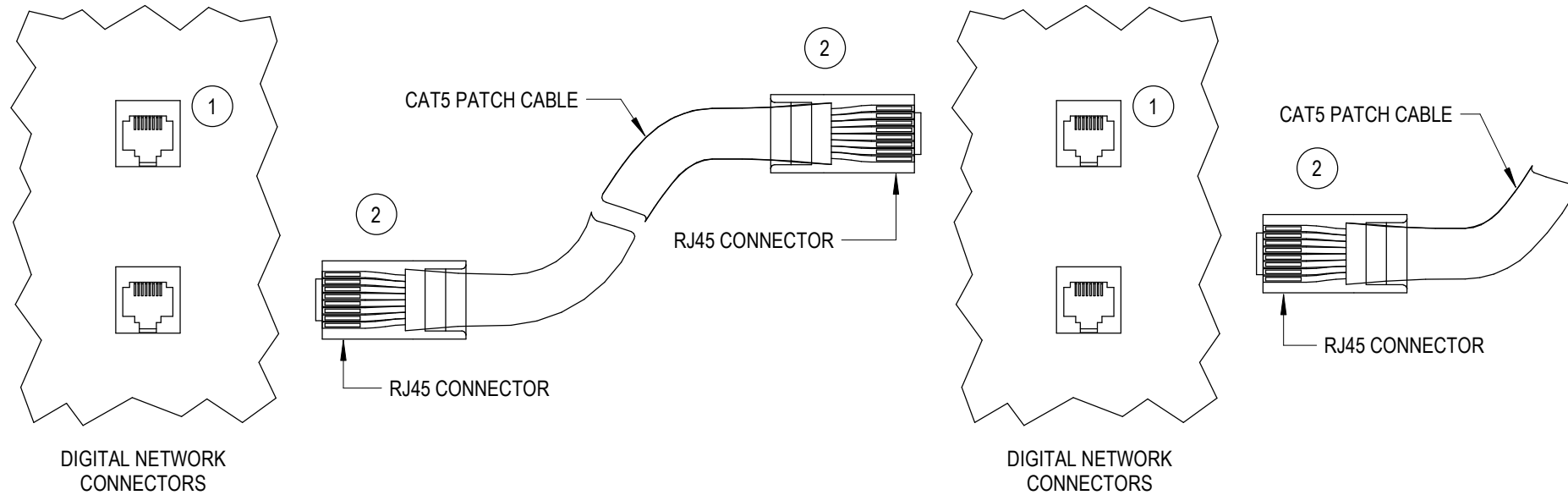
TIA / EIA-568-B CABLING STANDARD TERMINATION			
FUNCTION	PAIR #	PIN OUT (T568B)	WIRE COLOR
(T1) (R1)	1	5 4	WHITE w/ BLUE BLUE
Tx + (T2) Tx - (R2)	2	1 2	WHITE w/ ORANGE ORANGE
Rx + (T3) Rx - (R3)	3	3 6	WHITE w/ GREEN GREEN
(T4) (R4)	4	7 8	WHITE w/ BROWN BROWN

TERMINATION & TESTING OF CAT5 CABLES MUST BE DONE BY A QUALIFIED NETWORK INSTALLER

CABLE TERMINATION REQUIREMENTS:

- STRIP OFF OUTER JACKET - APPROXIMATELY 1-1/2" (37.6 mm)
- TERMINATE APPROXIMATELY 1/2" (12.2 mm) FROM END OF CONDUCTORS ON TYPE 110 PUNCH DOWN BLOCK OR CONNECTOR PER SCHEDULE (T568B) - MAXIMUM UNTWIST OF CONDUCTORS TO TERMINATIONS IS 1/2" (12.2 mm) - TRIM EXCESS LEADS.

SEE SYSTEM SPECIFIC NOTES ON SHEET LC0.1 FOR MAXIMUM CABLE LENGTHS.

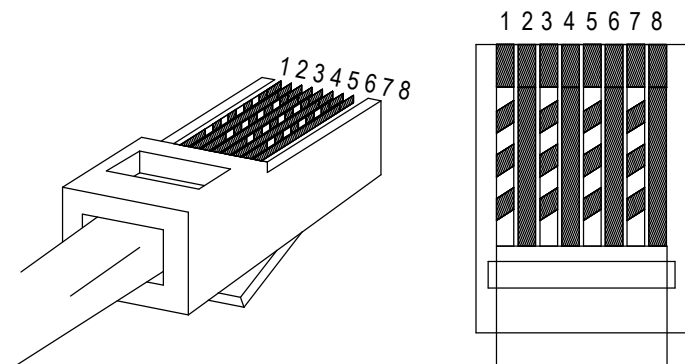
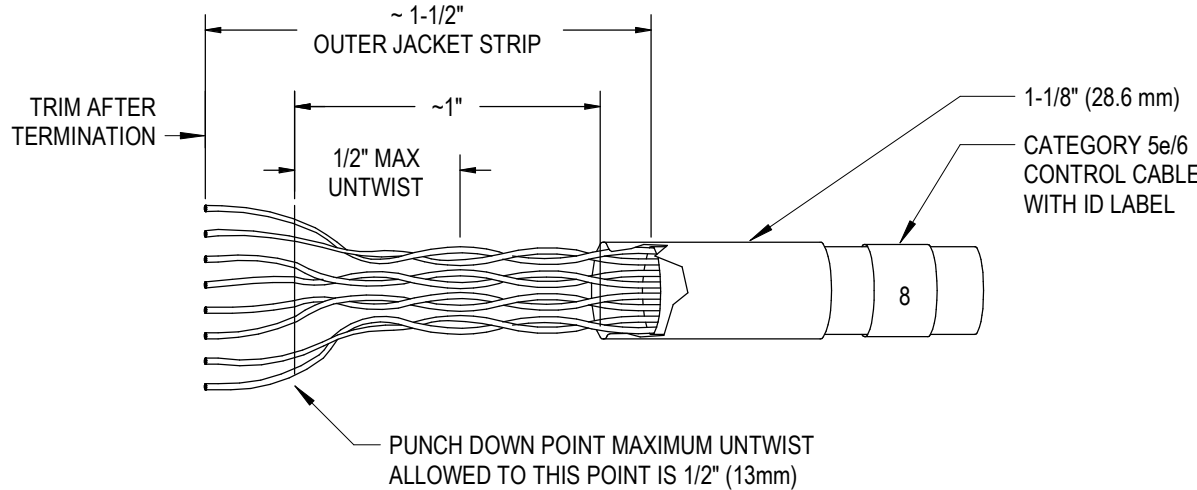


- RJ45 FEMALE CONNECTOR
- RJ45 MALE CONNECTORS. ALL CABLES SUPPLIED BY CONTRACTOR.

DIGITAL LIGHTING CONTROLS CAT5E/6 CABLE TERMINATION

NTS

2



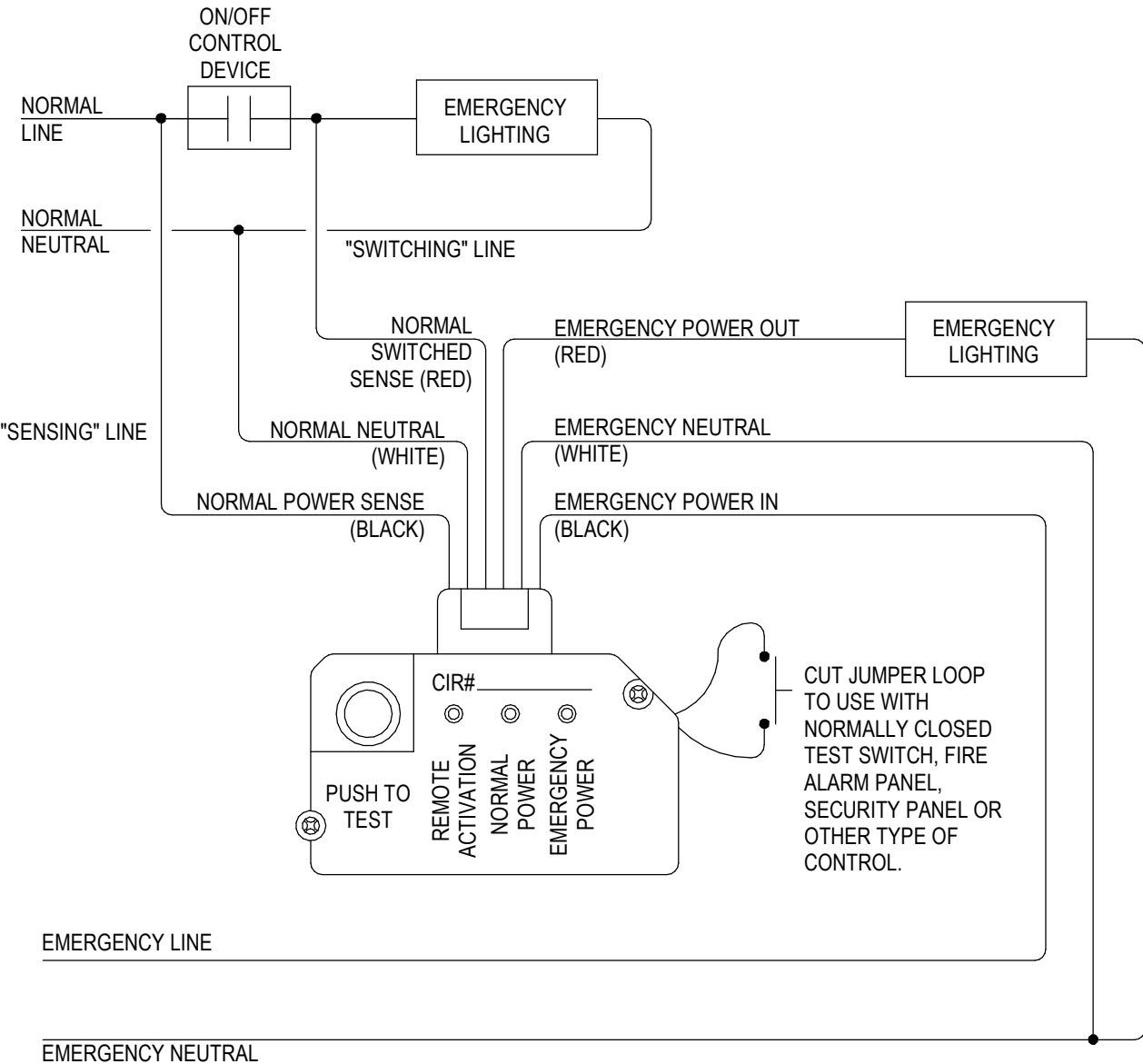
- WHITE WITH ORANGE
 - ORANGE
 - WHITE WITH GREEN
 - BLUE
 - WHITE WITH BLUE
 - GREEN
 - WHITE WITH BROWN
 - BROWN
- NOTES:
DAISY-CHAIN CAT5 PATCH CABLE WITH RJ45 CONNECTORS FROM DIGITAL DEVICE TO DIGITAL DEVICE.
REFER TO MANUFACTURERS INSTRUCTIONS FOR LONG DISTANCE RUNS BETWEEN DIGITAL DEVICES.
CRIMP AND TEST EACH CABLE WITH A LAN CIRCUIT TESTER PRIOR TO INSTALLATION.

3

B

UL924 DEVICE DETAIL

NTS

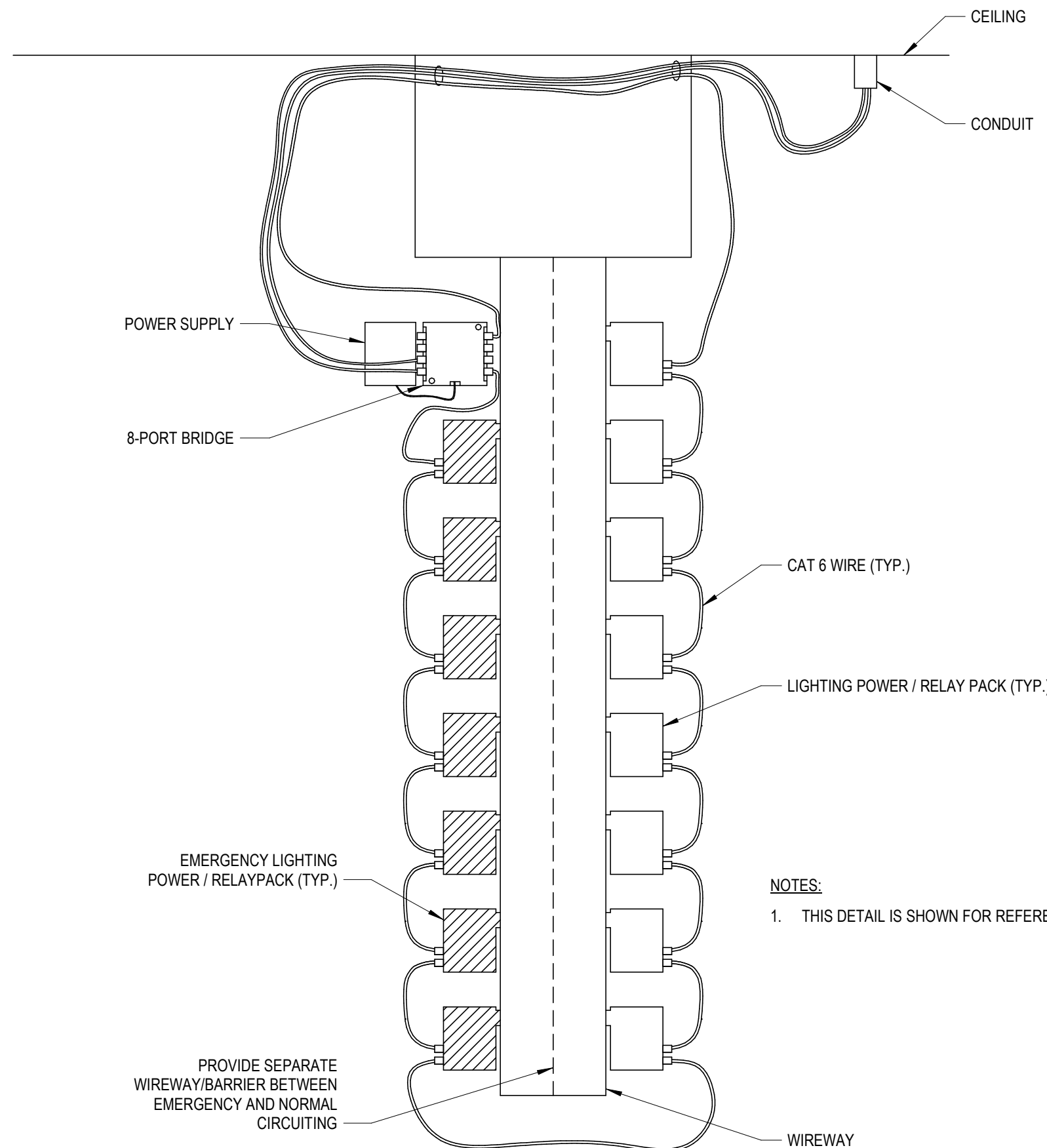


4

A

NLIGHT NORMAL & EMERGENCY POWER / RELAY PACK WIREWAY

NTS



GENERAL SHEET NOTES

- BASIS OF DESIGN FOR DIGITAL LIGHTING CONTROLS IS NLIGHT BY ACUTY.
- LIGHT SWITCHING AND CONTROLS PACKAGES SHALL COMPLY WITH IECC 2021.
- ACCEPTABLE LIGHTING CONTROLS PACKAGES INCLUDE:
 - CRESTRON ZULINK - NETWORKED SOLUTION
 - CRESTRON ZIMMESH - WIRELESS SOLUTION
 - HUBBELL NX DISTRIBUTED INTELLIGENCE - NETWORKED SOLUTION
 - HUBBELL WISCAPE - WIRELESS OUTDOOR SOLUTION
 - INTELLIGENT LIGHTING CONTROLS
 - LUTRON VIVE - WIRELESS SOLUTION - LUTRON DRIVERS REQUIRED.
 - LUTRON QUANTUM - NETWORKED SOLUTION - LUTRON DRIVERS REQUIRED
 - PHILIPS SPACEWISE DT - WIRELESS SOLUTION
 - STEINEL DCS - WIRELESS SOLUTION
 - WATTSTOPPER DLM - WIRELESS AND NETWORKED SOLUTIONS
 - PRIOR APPROVED EQUAL PRODUCT.
- CONTROLS PACKAGE MUST INCLUDE THE FOLLOWING:
 - NETWORK SYSTEM.
 - PROVIDE BRIDGES AS REQUIRED AND INCLUDE (1) ADDITIONAL BRIDGE USED AS A HUB.
- PROVIDE POWER TO THE FOLLOWING ITEMS FROM THE NEAREST AVAILABLE NORMAL / EMERGENCY 120V CIRCUIT.
 - HEAD END EQUIPMENT
 - BRIDGES
 - TOUCH SCREEN (IF APPLICABLE)
- LINE VOLTAGE WIRING SHALL BE #12 AWG MINIMUM, INSTALLED IN CONDUIT. CONTROL CABLING SHALL BE CAT 5e AS REQUIRED BY CONTROL DEVICE MANUFACTURER. INSTALL IN CONDUIT OR ROUTE IN FREE AIR AS ALLOWED BY THE SPECIFICATIONS. PROVIDED BY ELECTRICAL CONTRACTOR.
- DIGITAL LIGHTING CONTROL DEVICE DETAILS ARE DIAGRAMMATIC. SEE FLOOR PLANS FOR QUANTITIES AND TYPES OF DEVICES REQUIRED IN EACH ROOM OR SPACE.
- LIGHTING CONTROL RELAY / POWER PACKS ARE NOT SHOWN ON FLOOR PLANS. PROVIDE IN QUANTITIES AS REQUIRED TO ACCOMMODATE LIGHTING CONTROL SCHEME INDICATED ON FLOOR PLANS. LOCATE RELAY / POWER PACKS ABOVE ACCESSIBLE ROOM CEILINGS, IN AN ACCESSIBLE LOCATION NEAR ROOM SERVED OR USE A WIREWAY SYSTEM NEAR THE NLIGHT ECLYPSE OR POWER PANEL. INDICATE EXACT LOCATIONS OF RELAY / POWER PACKS ON AS-BUILT RECORD DRAWINGS.
- IF ANOTHER DIGITAL LIGHTING CONTROLS PACKAGE IS APPROVED FOR THIS PROJECT, FOLLOW MANUFACTURER'S WIRING DIAGRAMS AND INSTALLATION INSTRUCTIONS. FOR PROJECTS WITH LUTRON LIGHTING CONTROLS, PROVIDE LUTRON DRIVERS AS REQUIRED.
- PROVIDE COMMISSIONING OF THE ENTIRE SYSTEM.

- NOTES:
- THIS DETAIL IS SHOWN FOR REFERENCE.

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MADISON, WISCONSIN 53703

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ELECTRICAL UPGRADES

318 WEST MIFFLIN STREET
MADISON, WI

ISSUE:

10/17/2025 FINAL REVIEW SET

PROJECT INFORMATION:

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SCALE: AS NOTED

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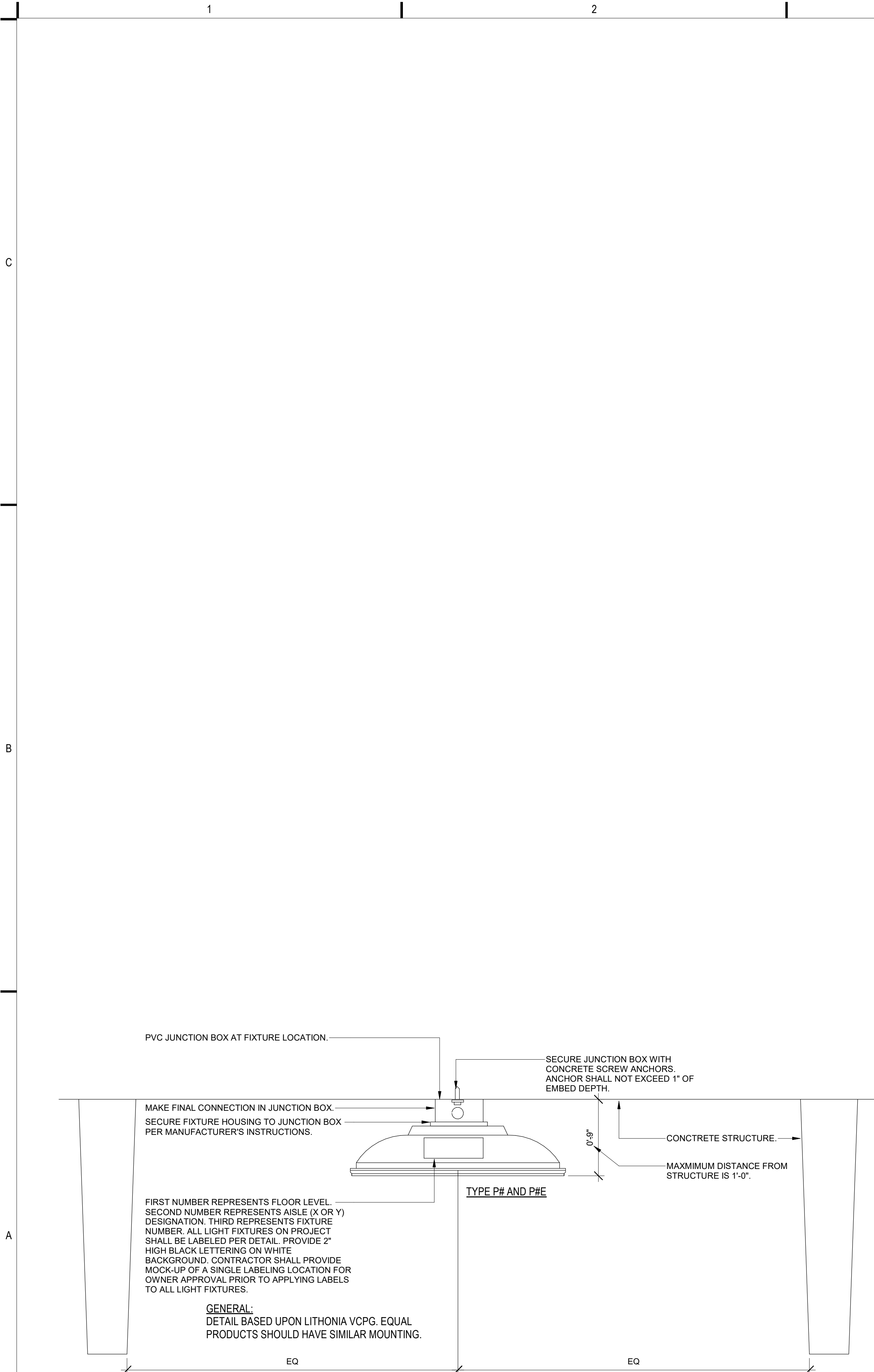
ELECTRICAL DETAILS

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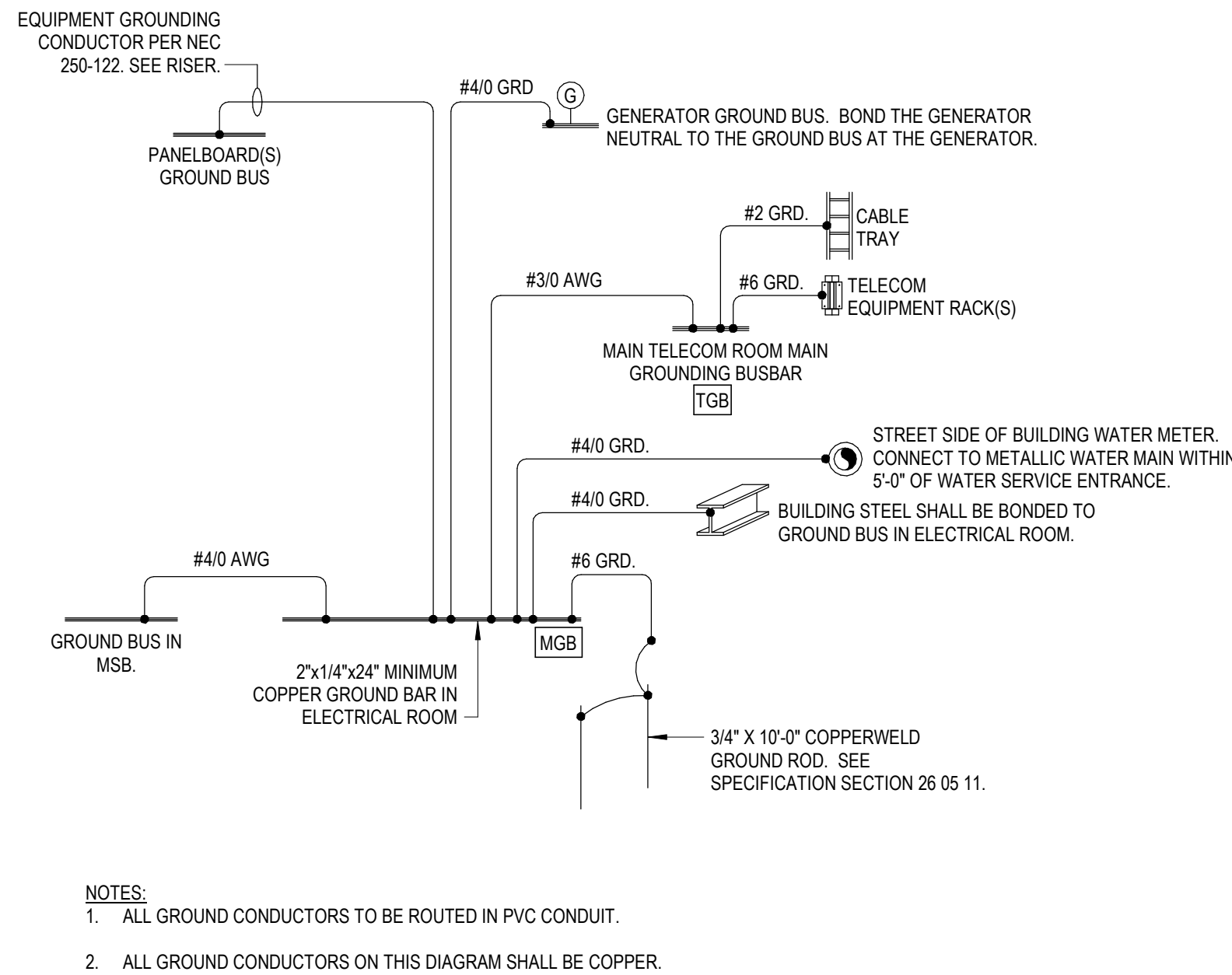
E-501

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A1 LIGHT FIXTURE MOUNTING DETAIL



A4 GROUNDING SYSTEM DETAIL

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ELECTRICAL DETAILS

SHEET NUMBER:

E-502

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C

B

A

LIGHT FIXTURE SCHEDULE														
GENERAL NOTES:														
A. SEE SPECIFICATION SECTION FOR ADDITIONAL INFORMATION REGARDING FIXTURE AND INSTALLATION REQUIREMENTS.														
B. MANUFACTURERS LISTED AS ACCEPTABLE SHALL MEET ALL REQUIREMENTS AND FEATURES INDICATED. ACCEPTABLE MANUFACTURERS MUST MEET THE PHOTOMETRIC PERFORMANCE OF THE LISTED UNIT. ELECTRICAL CONTRACTOR SHALL ENSURE THE FIXTURE DEPTH / HEIGHT WILL COMPLY WITH ADA REQUIREMENTS AND WILL NOT INTERFERE WITH OTHER TRADES WITHIN THE CEILING CAVITY.														
C. ELECTRICAL CONTRACTOR SHALL COORDINATE T-GRID, WOOD AND SPECIALTY CEILING SYSTEMS WITH ARCHITECT PRIOR TO ORDERING.														
D. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED PARTS AND PIECES FOR A COMPLETE INSTALLATION.														
E. ALL REMOTE DRIVERS SHALL BE LOCATED IN AN ACCESSIBLE LOCATION THAT MEETS THE AMBIENT TEMPERATURE REQUIREMENTS OF THE DRIVER. ELECTRICAL CONTRACTOR SHALL VERIFY WITH SUBMITTED SHOP DRAWING WIRING DIAGRAMS THAT ALL DRIVER LOCATIONS ARE WITHIN...														
NOTES:														
1. PROVIDE SURFACE MOUNTING KIT ACCESSORY (VCPGSRM U) FOR LIGHT FIXTURE														
2. PROVIDE JUNCTION BOX EXTENSION.														
3. PROVIDE LITHONIA POLE MODEL# SSS 12 4C DM19AS EHHXY EHHXY DDBXD.														
4. PROVIDE LITHONIA POLE MODEL# SSS 12 4C DM28AS EHHXY EHHXY DDBXD. PROVIDE EXTRA HANDHOLES FOR POLES WITH CAMERAS.														
5. PROVIDE GTD FOR ALL LIGHT FIXTURES.														
TAG	PERFORMANCE & ELECTRICAL DATA				DESCRIPTION	LIGHT FIXTURE PROPERTIES			OPTIONS & ACCESSORIES			NO EQUALS	ACCEPTABLE MANUFACTURERS	SEE NOTE
	LUMENS	KELVIN TEMP	LOAD	FIXTURE VOLTAGE		MANUFACTURER	CATALOG SERIES	COLOR / FINISH	DIMMING TYPE	REQUIRED LISTINGS	SENSOR TYPE			
A1	3500	4000	32 VA	120	2X2' FLAT PANEL LED	LITHONIA	CPX 2X2 AL07 80CRI SWW7 SWL MVOLT NLTAIR2	W	0-10-10	-	-		METALUX/PEERLESS/FINELITE	
F1	5800	4000	57 VA	120	VANDEL RESISTANT LINEAR STAIRWAY SURFACE MOUNT	LUMINAIRE LED	CLF7 4FT AL MIN10 2DRV 50W 40K 120 OP WHT PC OCCFA	W	0-10-10	DL VR	D MO P		KENALL/NEW STAR	
F1E	5800	4000	57 VA	120	VANDEL RESISTANT LINEAR STAIRWAY SURFACE MOUNT	LUMINAIRE LED	CLF7 4FT AL MIN10 2DRV 50W 40K 120 OP WHT PC OCCFA	W	0-10-10	DL VR	D MO P		KENALL/NEW STAR	
F2E	4500	4000	43 VA	120	VANDEL RESISTANT LINEAR STAIRWAY SURFACE MOUNT	LUMINAIRE LED	CLF7 3FT AL MIN10 2DRV 40W 40K 120 OP WHT PC OCCFA	W	0-10-10	DL VR	D MO P		KENALL/NEW STAR	
P1	11000	4000	81 VA	120	PARKING GARAGE LUMINAIRE	LITHONIA	VCPGX LED V8 P5 40K 80CRI T5W MVOLT SRM BSW NLTAIR2 PIR DNAXD	NA	0-10-10	DL	D MO P		MCGRAW-EDISON/CREE/GARDCO	1
P1E	11000	4000	81 VA	120	PARKING GARAGE LUMINAIRE ON EM	LITHONIA	VCPGX LED V8 P5 40K 80CRI T5W MVOLT SRM BSW NLTAIREM2 PIR DNAXD	NA	0-10-10	DL	D MO P		MCGRAW-EDISON/CREE/GARDCO	1,2
P2	13000	4000	108 VA	120	PARKING GARAGE LUMINAIRE	LITHONIA	VCPGX LED V8 P6 40K 80CRI LANE MVOLT SRM BSW NLTAIR2 PIR DNAXD	NA	0-10-10	DL	D MO P		MCGRAW-EDISON/CREE/GARDCO	1
P2E	13000	4000	108 VA	120	PARKING GARAGE LUMINAIRE ON EM	LITHONIA	VCPGX LED V8 P6 40K 80CRI LANE MVOLT SRM BSW NLTAIREM2 PIR DNAXD	NA	0-10-10	DL	D MO P		MCGRAW-EDISON/CREE/GARDCO	1,2
P3	7000	4000	55 VA	120	PARKING GARAGE LUMINAIRE	LITHONIA	VCPGX LED V8 P4 40K 80CRI T5W MVOLT SRM BSW NLTAIR2 PIR DNAXD	NA	0-10-10	DL	D MO P		MCGRAW-EDISON/CREE/GARDCO	1
PL1	9000	4000	72 VA	120	SINGLE HEAD LED POLE MOUNTED - 12' POLE	LITHONIA	RSX1 LED P2 40K R4 MVOLT SPA NLTAIR2 PIRHN BS DDBXD	DBZ	0-10-10	WL	D MO P		MCGRAW-EDISON/CREE/GARDCO	3
PL2	9000	4000	144 VA	120	TWIN HEAD LED POLE MOUNTED - 12' POLE	LITHONIA	RSX1 LED P2 40K R4 MVOLT SPA NLTAIR2 PIRHN BS DDBXD	DBZ	0-10-10	WL	D MO P		MCGRAW-EDISON/CREE/GARDCO	4
S1	5000	4000	32 VA	120	4' LED STRIP WITH DIFFUSE LENSE	LITHONIA	CLX L48 5000LM SEF RDL MVOLT GZ10 40K 80CRI NLTAIR2 RIO	W	0-10-10	DL	-		METALUX/PEERLESS/FINELITE	
S2	5000	4000	32 VA	120	4' LED STRIP WITH DIFFUSE LENSE	LITHONIA	CLX L48 5000LM SEF RDL MVOLT GZ10 40K 80CRI NLTAIR2 RIOEM	W	0-10-10	DL	-		METALUX/PEERLESS/FINELITE	
W1	1200	4000	10 VA	120	LED WALL PACK LOW PROFILE	LITHONIA	WDGE2 LED P1SW 40K 80CRI VW SRM PBBW NLTAIR2 PIR924 DDBXD	DBZ	0-10-10	DL	D O P		MCGRAW-EDISON/CREE/GARDCO	
X1	-	-	3 VA	120	ONE SIDED EXIT SIGN PARELLEL WALL MOUNT	LITHONIA	LV S AW1 R 120/277 UM 4X	W	-	4X	-		ISOLITE/HOLOPHANE/THOMAS & BETTS	

LIGHT FIXTURE SCHEDULE ABBREVIATIONS				
COLOR / FINISH	DIMMING TYPE	LENS TYPE	REQUIRED LISTINGS	SENSOR TYPE
B = BLACK BZ = BRONZE C = CLEAR CU = COPPER CUS = CUSTOM PAINTED FINISH - COLOR AS SELECTED BY ARCHITECT DBZ = DARK BRONZE G = GOLD GL = GLOSS M = MATTIE NA = NATURAL ALUMINUM RAL# = RAL NUMBER S = SILVER SSP = SEMI-SPECULAR / HAZE W = WHITE	0-10-0.1 = 0-10 V 0.1% 0-10-1 = 0-10 V 1% 0-10-5 = 0-10 V 5% 0-10-10 = 0-10 V 10% BL = BILEVEL / STEP E = ELDOLED FF = FORWARD PHASE D = DALI DX = DMX L = LUTRON N = NONE O = OSRAM P = PHASE RF = REVERSE PHASE	C = CLEAR D = DROP DOWN F = FLUSH N = NONE R = REGRESSED O = OPAL P = POP UP PA = PATTERN 12 ACRYLIC SL = SHOWER LIGHT TR = TAMPER RESISTANT VR = VANDAL RESISTANT WL = WET LOCATION 4X = NEMA 4X	## = IP ## RATED AT = AIR TIGHT CHDH = CLASS # DIVISION # DL = DAMP LOCATION F = FIRE RATED IC = IC RATED IR = IMPACT RESISTANT LR = LIGATURE RESISTANT SL = SHOWER LIGHT TR = TAMPER RESISTANT VR = VANDAL RESISTANT WL = WET LOCATION 4X = NEMA 4X	D = DAYLIGHT SENSOR MO = MULTI-LEVEL OCCUPANCY SENSOR N = NONE O = OCCUPANCY SENSOR P = PHOTOCELL

4

5

CAMERA SCHEDULE																			
<u>ABBREVIATIONS:</u> PoE = POWER OVER ETHERNET PTZ = PAN-TILT-ZOOM																			
<u>GENERAL NOTE:</u> A. CAMERAS, HOUSINGS (DOMES), LENS AND MOUNTING BRACKETS PROVIDED BY CONTRACTOR; INSTALLED AND WIRED BY CONTRACTOR. REFERENCE SPECIFICATIONS 28 08 00 AND 28 23 00.																			
<u>NOTE:</u> 1. NOT USED.																			
CAMERA NO.	MOUNT	TYPE		VIEWING OBJECTIVE	APPROXIMATE VIEWING DISTANCE (STATED IN FEET)	VANDAL PROOF	WEATHER PROOF	FEATURES						ACCESSORIES					SEE NOTE
		FIXED	PTZ					SMART DOME	IK10, IP66 & NEMA 4X	VARIFOCAL LENSE	REMOTE FOCUS & ZOOM	PoE	ENVIRONMENTAL	WALL MOUNT BRACKET	CORNER BRACKET	KEYBOARD & JOY STICK	MIDSPAN PoE POWER		
1	ARM		■	360	60 FT	■	■		■			■	■	■					
2	ARM		■	360	60 FT	■	■		■			■	■	■					
3	ARM		■	360	60 FT	■	■		■			■	■	■					
4	ARM		■	360	60 FT	■	■		■			■	■	■					

LIGHTING CONTROL BACKBONE (ECLYPSE) SCHEDULE				
GENERAL NOTES: A. LIGHT SWITCHING AND CONTROLS PACKAGE SHALL COMPLY WITH IECC 2021. B. BASIS OF DESIGN IS ACUITY CONTROLS. PRIOR APPROVED EQUALS WILL BE CONSIDERED. C. CONTROLS PACKAGE SHALL INCLUDE THE FOLLOWING: NETWORK SYSTEM - ROOMS WITH LOW VOLTAGE SWITCHING GO BACK TO THE BACKBONE. PROVIDE BRIDGES AS REQUIRED AND INCLUDE (1) ADDITIONAL BRIDGE USED AS A HUB. D. PROVIDE POWER TO THE BACKBONE AND BRIDGES FROM THE NEAREST AVAILABLE EMERGENCY / NORMAL BRANCH PANEL. E. PROVIDE ALL CAT6 CABLING AS REQUIRED FOR DIGITAL SWITCHING. F. IF "GFXIC" IS INCLUDED IN THE CATALOG NUMBER BELOW, IT INCLUDES A TOUCHSCREEN INTERFACE MODEL NGWY2 GFX, PS150 POWER SUPPLY AND CAT6 CABLE. MOUNT TOUCHSCREEN AND POWER SUPPLY NEAR THE ECLYPSE BACKBONE ENCLOSURE AND CONNECT IT TO THE ECLYPSE VIA THE CAT6 CABLE. PROVIDE POWER FROM THE NEAREST EMERGENCY / NORMAL BRANCH PANEL. G. IF "AIR" IS INCLUDED IN THE CATALOG NUMBER BELOW, IT INCLUDES A NECYD NLTAIR G2 TO SUPPORT UP TO 150 DEVICES.				
NOTE: 1. NOT USED.				
TAG	MANUFACTURER	CATALOG NUMBER	REMARKS	SEE NOTE
BB/1	ACUITY	NECY-MVOLT-BAC-SVS-ENC-AIR-NECYD NLTAIR G2		
BB/2	ACUITY	NECY-MVOLT-BAC-SVS-ENC-AIR-NECYD NLTAIR G2		
BB/3	ACUITY	NECY-MVOLT-BAC-SVS-ENC-AIR-NECYD NLTAIR G2		

C

B

A



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ELECTRICAL SCHEDULES

SHEET NUMBER:

E-601

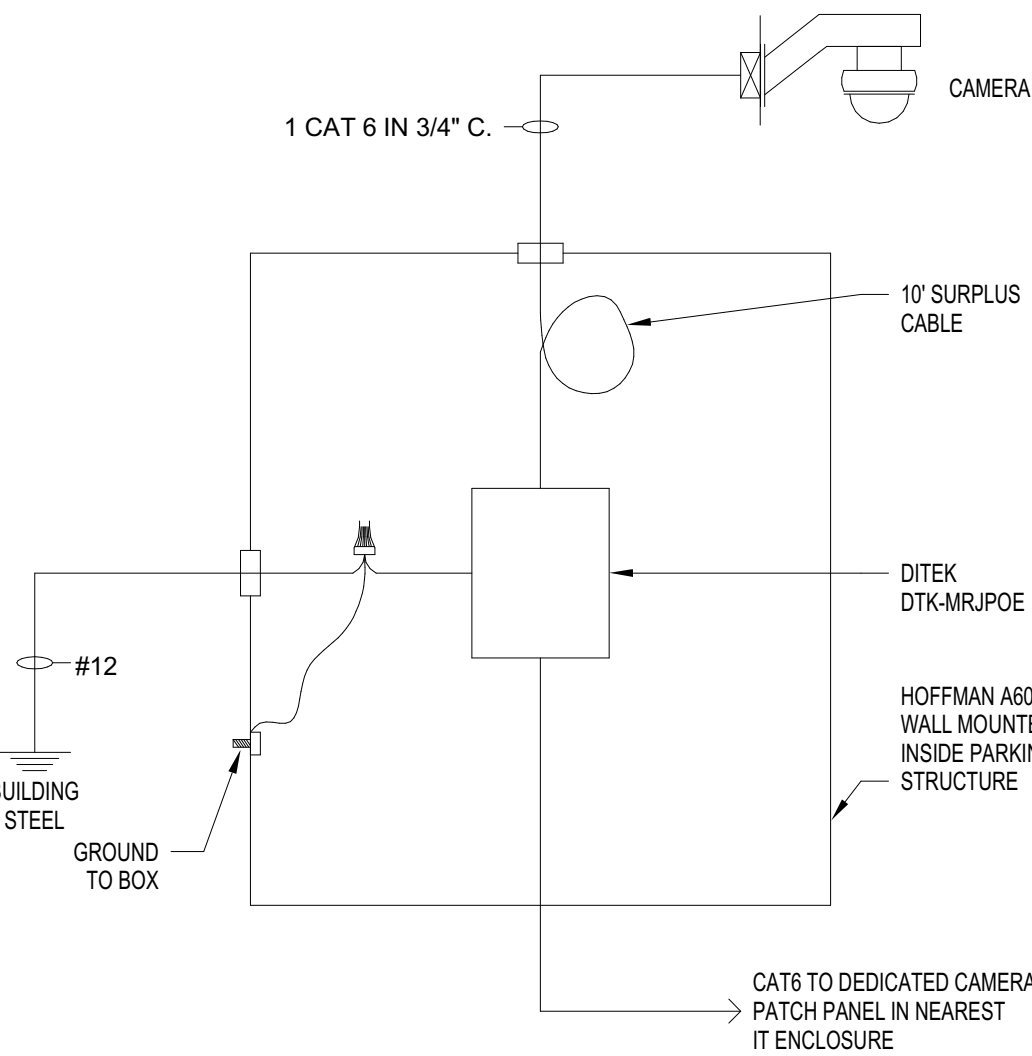
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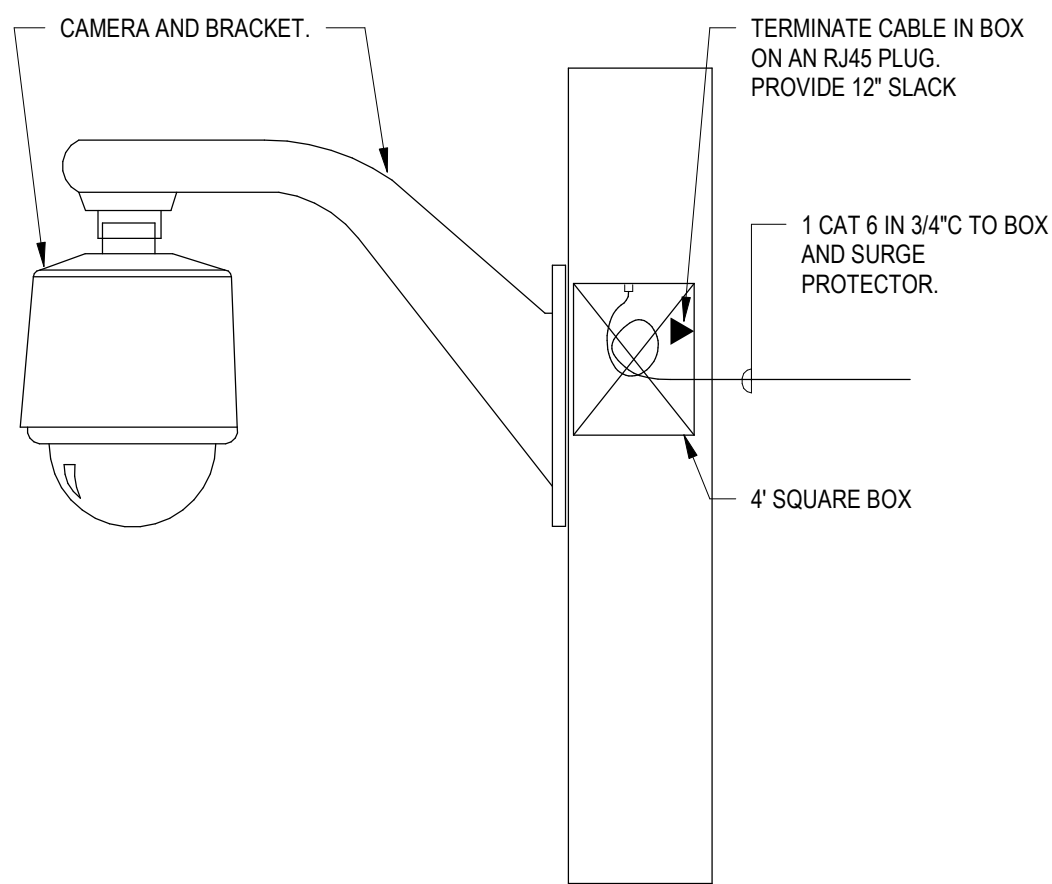
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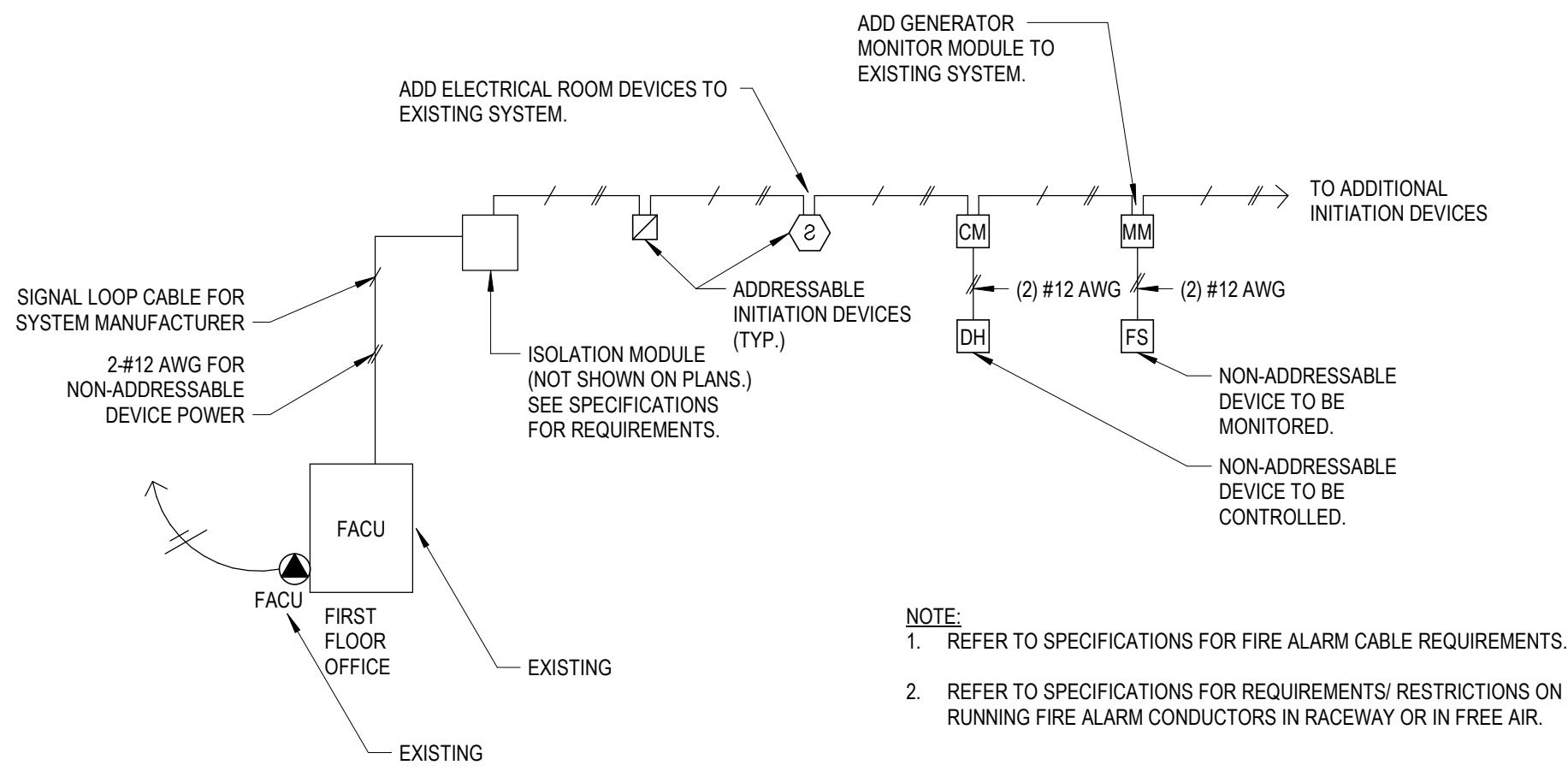
A1 CAMERA SURVEILLANCE SURGE PROTECTION



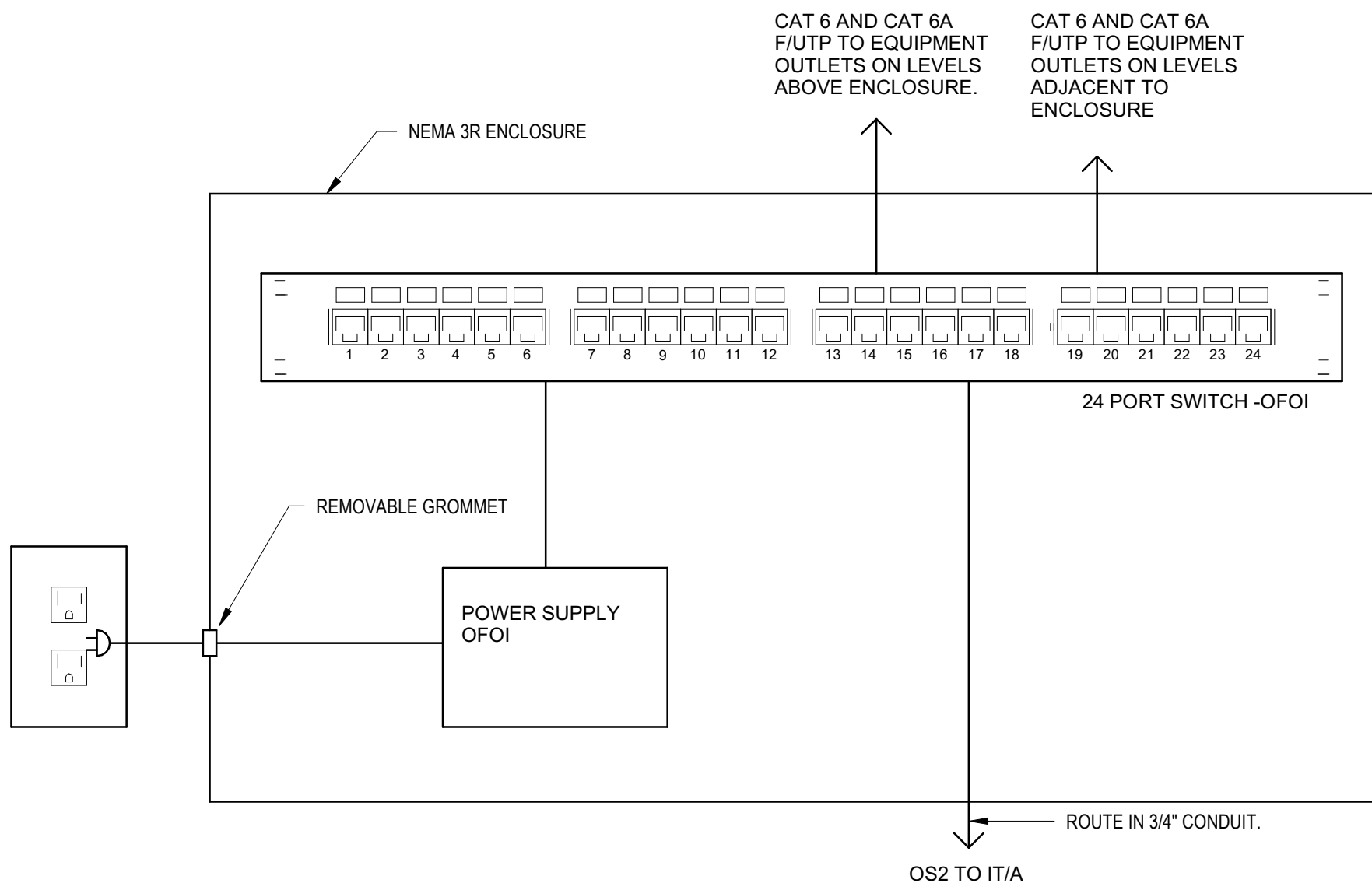
A2 CAMERA MOUNTING DETAIL



C4 FIRE ALARM RISER DIAGRAM



B4 IT ENCLOSURE INSTALL - APPLIES TO IT/B



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ELECTRICAL SYSTEMS WIRING
DIAGRAMS

SHEET NUMBER:

E-630