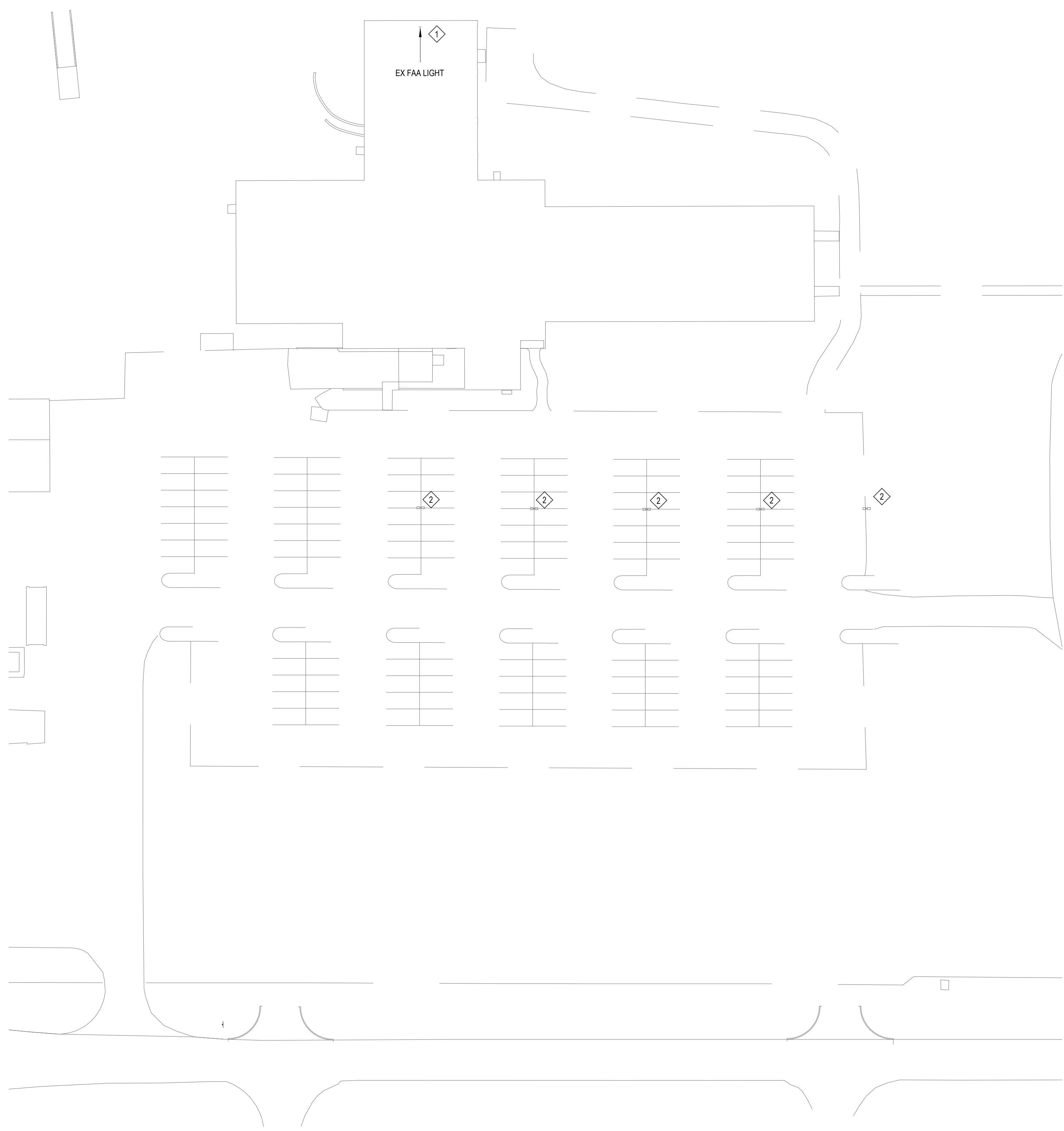






544 CHERBOURG DRIVE
LANSING, MI 48917

PHONE: (517) 487-2511
FAX: (517) 487-2544
ADMINISTRATOR@MATRIXCEINC.COM

MATRIX PROJECT NO. 24986.00

- KEYNOTES:**
- 1 EXISTING LIGHT FIXTURE TO REMAIN.
 - 2 DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. REMOVE CONDUIT AND WIRE. REMOVE EXISTING POLE BASE.

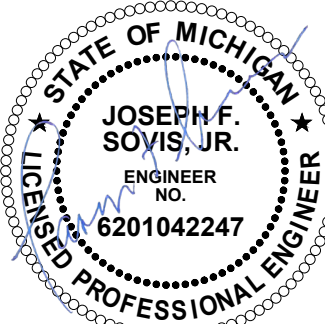
1 SITE PLAN - DEMO
E-200 SCALE = 1" = 40'-0"

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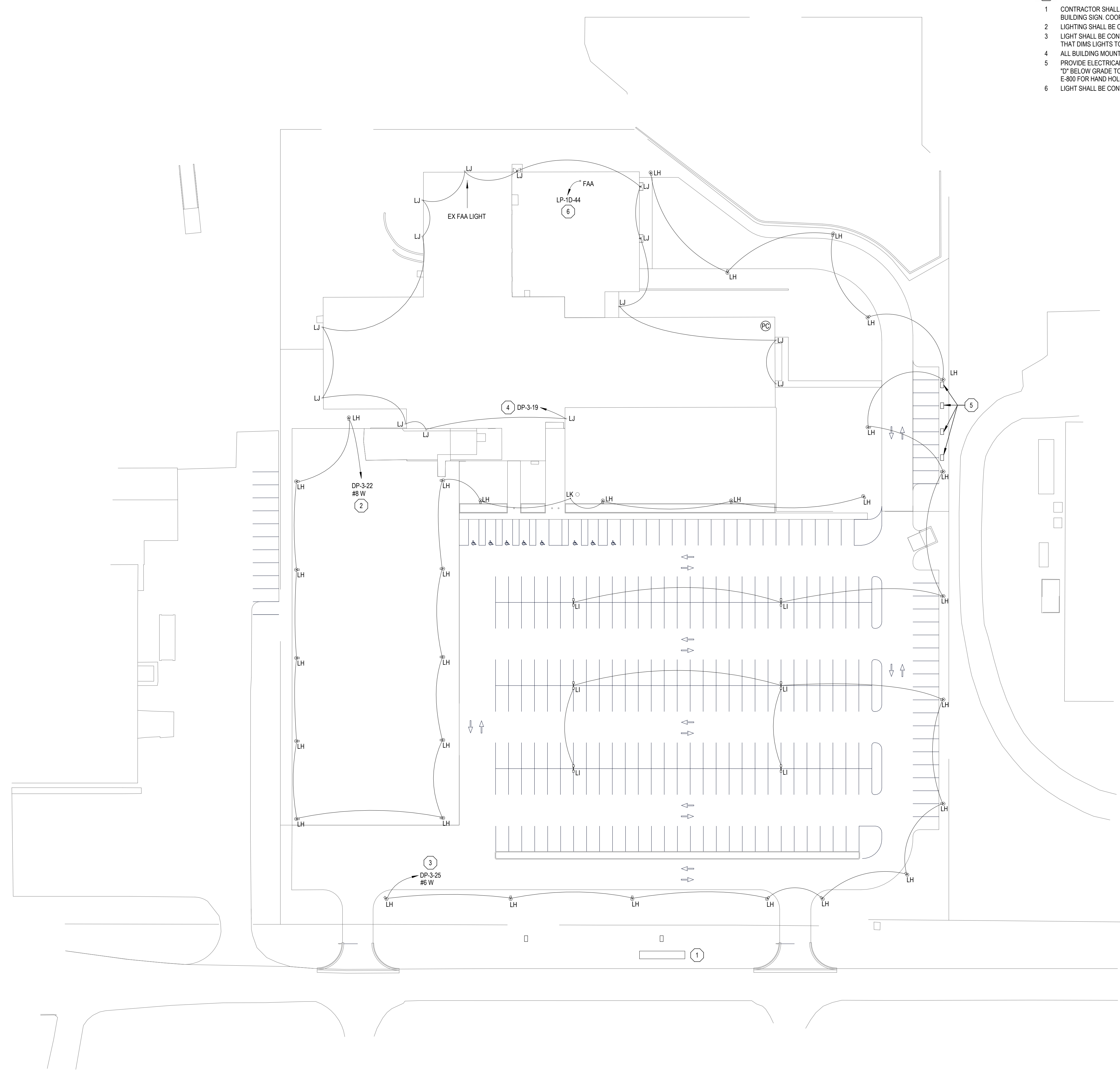


FOR SITE OWNED UTILITIES

72 HOURS
(3 WORKING DAYS)
BEFORE YOU DIG
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PH: (248) 606-8821

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SHEET TITLE: SITE PLAN - DEMO				Jackson West Armory Renovations 2700 W. Argyle St., Jackson, MI 49202		STATE OF MICHIGAN DEPARTMENT OF TECHNOLOGY, MANAGEMENT, AND BUDGET FACILITIES AND BUSINESS SERVICES ADMINISTRATION DESIGN AND CONSTRUCTION DIVISION ADAM P. LARCH, R.A., DIRECTOR 	
SHEET	IDENTIFICATION NO:	ISSUED FOR:	DATE				DESIGNED
E-200	PROJECT NO: 24986.00	PRELIMINARY ☐	1/15/2025				DRAWN BAE
	FILE NO/INDEX CODE:	CONSTRUCTION ☒					CHECKED JFS
		FINAL RECORD ☐		APPROVED JFS			

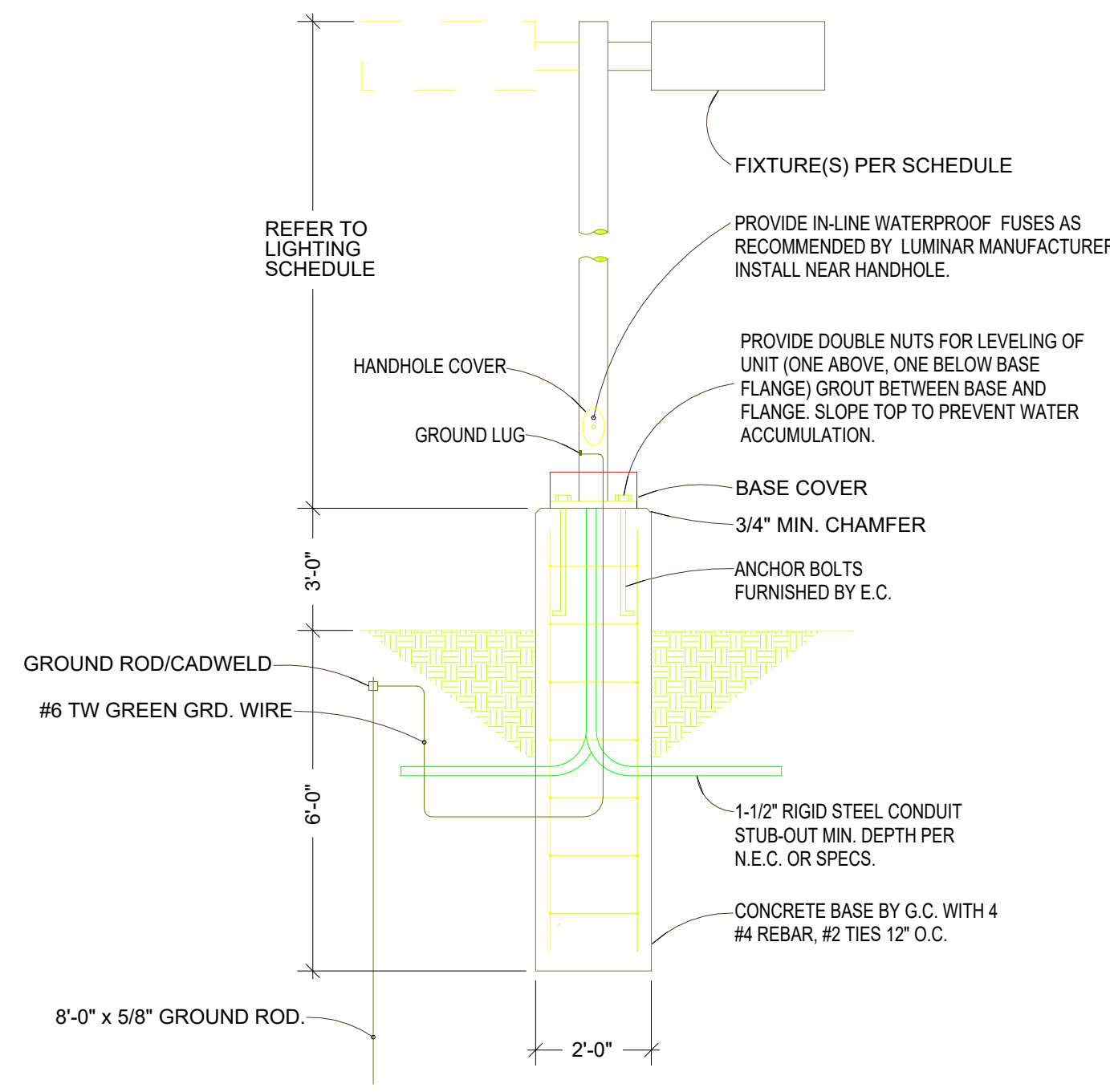


- # **KEYNOTES:**
- 1 CONTRACTOR SHALL PROVIDE SPARE 2" CONDUIT FROM PANEL "LP-1D" TO THIS AREA FOR FUTURE BUILDING SIGN. COORDINATE WITH CIVIL PLANS.
 - 2 LIGHTING SHALL BE CONTROLLED BY PHOTOCELL.
 - 3 LIGHT SHALL BE CONTROLLED BY PHOTOCELL. LIGHTS SHALL HAVE INTEGRAL MOTION SENSOR THAT DIMS LIGHTS TO 20% UNTIL MOTION IS DETECTED.
 - 4 ALL BUILDING MOUNTED LIGHTING WILL BE CONTROLLED BY PHOTOCELL.
 - 5 PROVIDE ELECTRICAL HAND HOLE BOX FOR FUTURE EV CHARGERS. ROUTE CONDUIT FROM PANEL "D" BELOW GRADE TO HAND HOLE LOCATION. REFER TO CIVIL PLANS. REFER TO DETAIL 7 ON PAGE E-800 FOR HAND HOLE DETAIL.
 - 6 LIGHT SHALL BE CONTROLLED BY OBSTRUCTION LIGHT "FL-81051" CONTROLLER.

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2 **LIGHT POLE BASE**
E-201 NOT TO SCALE

1 **SITE PLAN - NEW**
E-201 SCALE = 1" = 40'-0"

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SHEET TITLE: SITE PLAN - NEW		DESIGNED	BAE
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FINAL RECORD			
IDENTIFICATION NO:		PROJECT NO: 24986.00	
FILE NO/INDEX CODE:			
SHEET		E-201	

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FACILITIES AND BUSINESS SERVICES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM P. LARCH, R.A., DIRECTOR

Jackson West Armory Renovations

2700 W. Argyle St., Jackson, MI 49202



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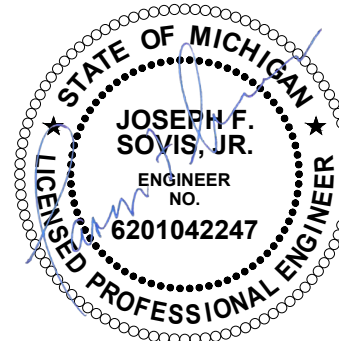
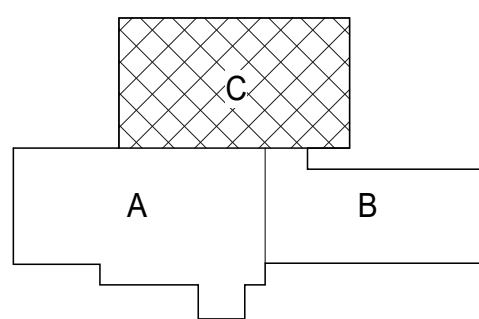
MATRIX PROJECT NO. 24986.00

- KEYNOTES:**
- EXISTING LIGHT FIXTURE TO REMAIN.
 - EXISTING DEVICE TO REMAIN. REMOVE WIRE BACK TO SOURCE.
 - DISCONNECT & REMOVE ALL EXISTING LIGHT FIXTURES & SWITCHING IN AREA UNLESS OTHERWISE NOTED. REMOVE ASSOCIATED CONDUIT & WIRE BACK TO SOURCE.

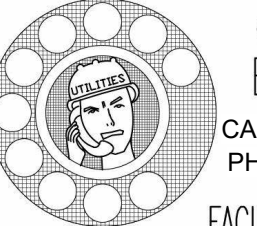


LOWER LEVEL FLOOR PLAN - LIGHTING DEMOLITION

1
E-300
SCALE = 1/8" = 1'-0"



FOR SITE OWNED UTILITIES



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(3 WORKING DAYS)
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72 HOURS
(3 WORKING DAYS)
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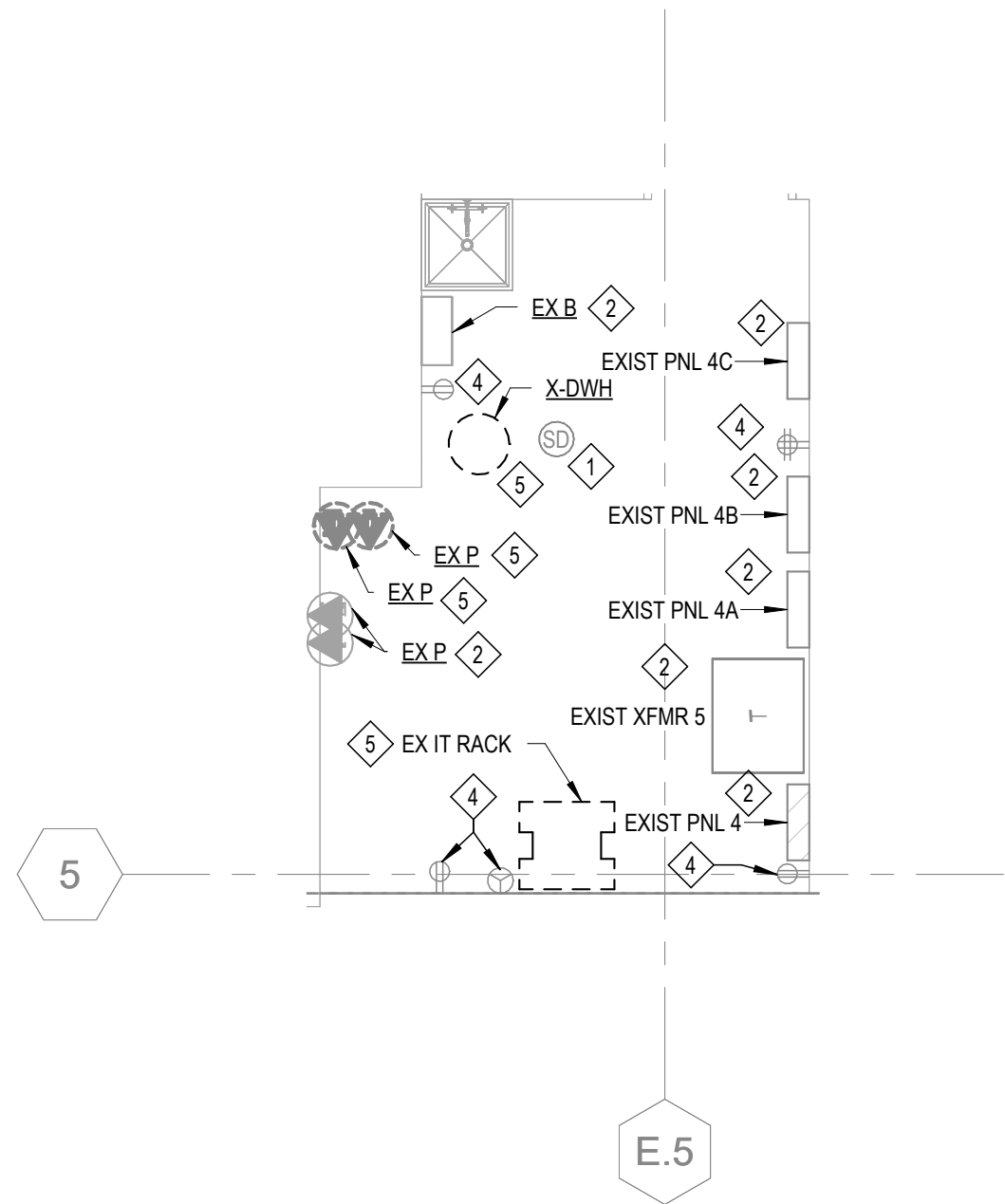
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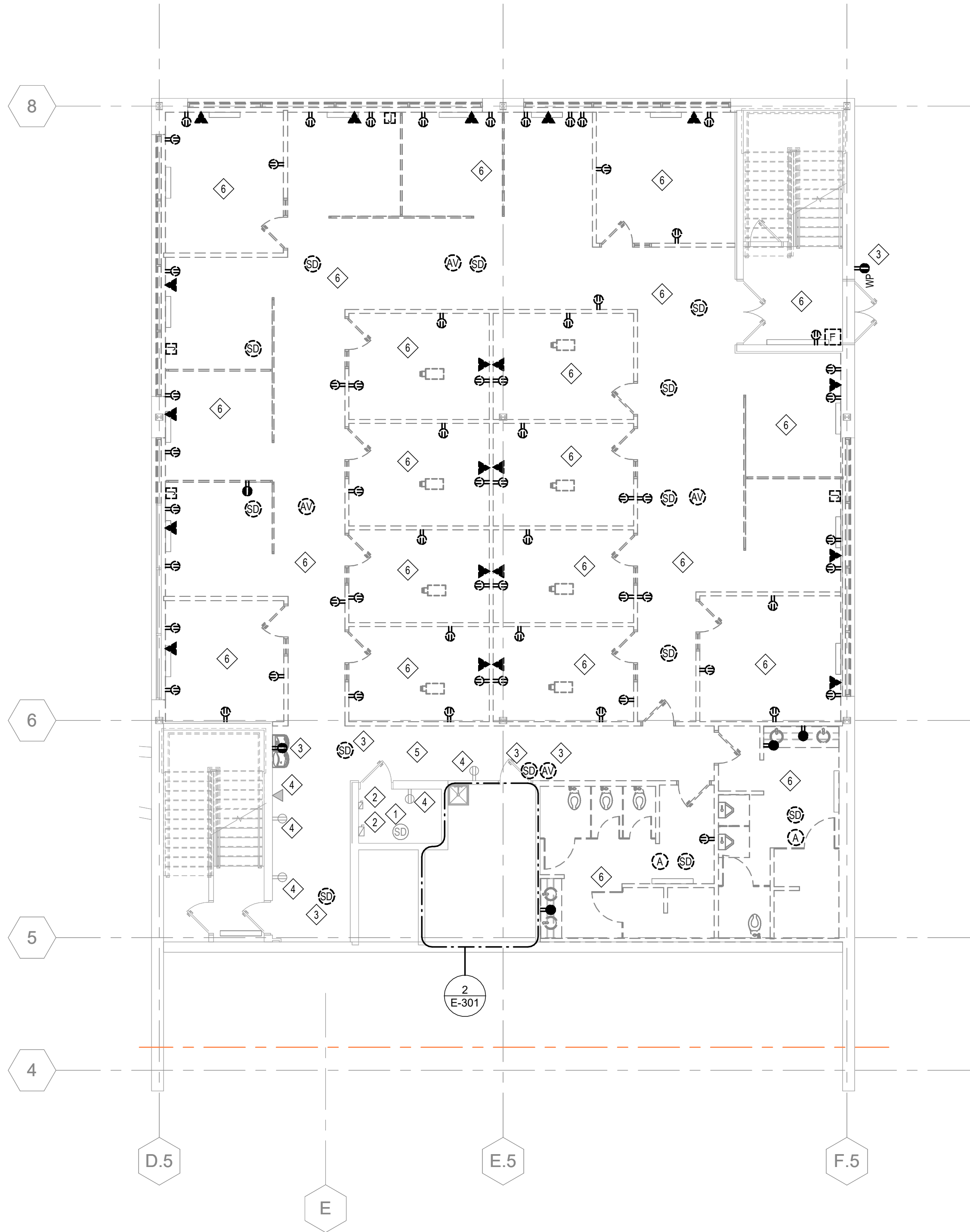
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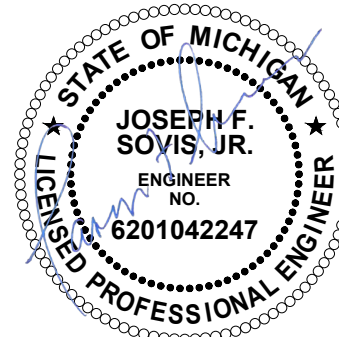
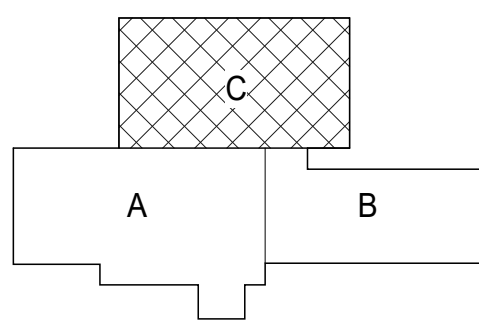
- KEYNOTES:**
- 1 EXISTING DEVICE TO REMAIN.
 - 2 EXISTING EQUIPMENT TO REMAIN.
 - 3 DISCONNECT & REMOVE EXISTING DEVICE. REMOVE ASSOCIATED WIRE.
 - 4 EXISTING DEVICE TO REMAIN. DISCONNECT AND REMOVE CIRCUIT AND WIRE BACK TO SOURCE.
 - 5 DISCONNECT & REMOVE EXISTING EQUIPMENT. REMOVE ASSOCIATED CONDUIT & WIRE.
 - 6 DISCONNECT AND REMOVE ALL EXISTING DEVICES IN AREA. REMOVE ASSOCIATED CONDUIT AND WIRE.



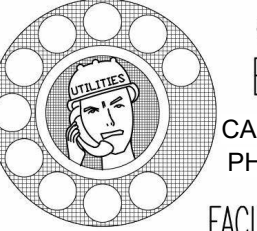
**LOWER LEVEL FLOOR PLAN - POWER
DEMOLITION - ENLARGED**
2
E-301 SCALE = 1/4" = 1'-0"



**LOWER LEVEL FLOOR PLAN - POWER
DEMOLITION**
1
E-301 SCALE = 1/8" = 1'-0"



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Jackson West Armory Renovations

2700 W. Argyle St., Jackson, MI 49202

SHEET TITLE: LOWER LEVEL FLOOR PLAN - POWER DEMO

DESIGNED
BAE

DRAWN
BAE

CHECKED
JFS

APPROVED
JFS

ISSUED FOR:
PRELIMINARY
CONSTRUCTION
FINAL RECORD

IDENTIFICATION NO:
PROJECT NO: 24986.00
FILE NO/INDEX CODE:

E-301



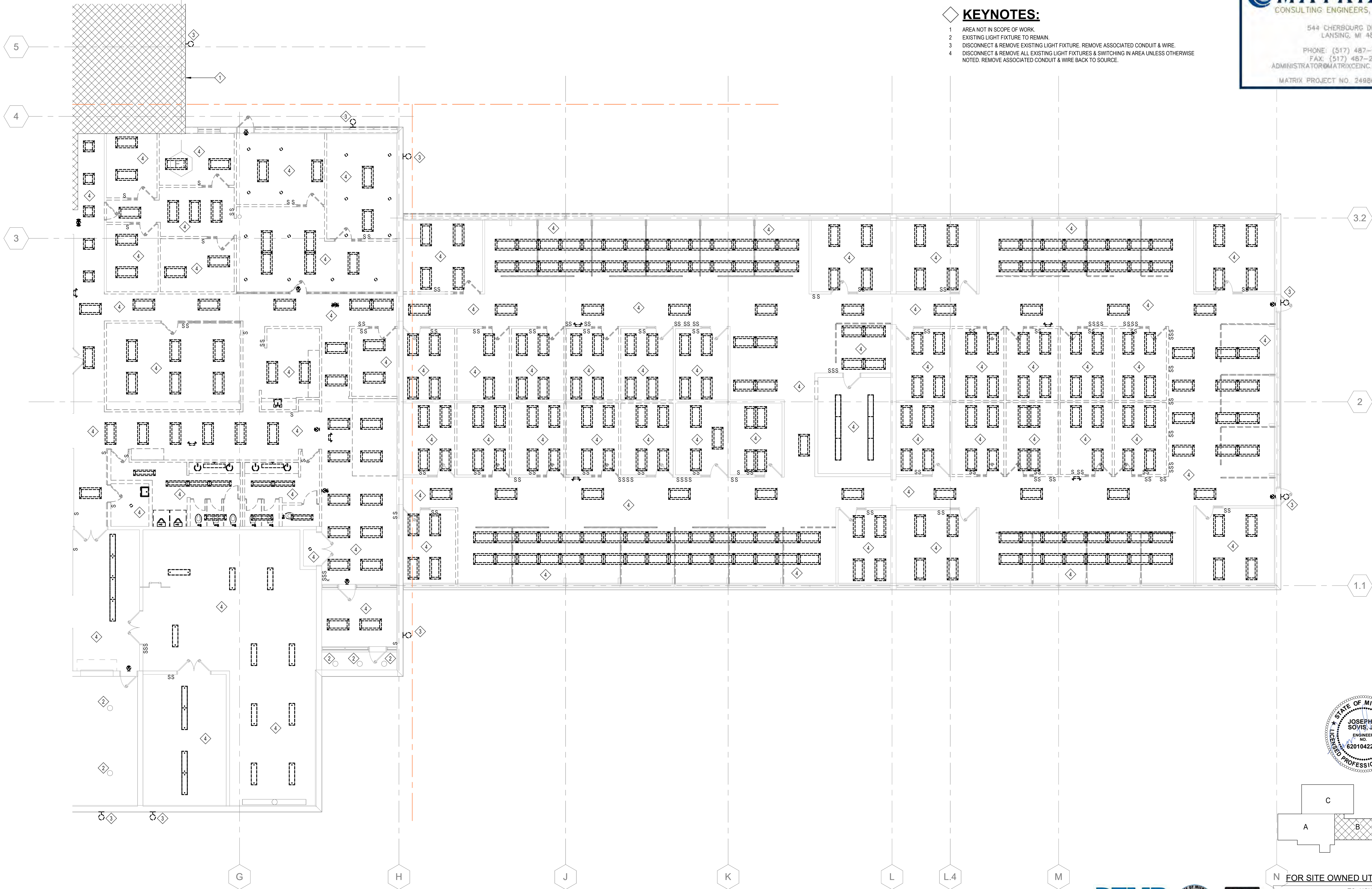
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FAX: (517) 487-2544
ADMINISTRATOR@MATRIXCEINC.COM

MATRIX PROJECT NO. 24886.00

- ◆

KEYNOTES:
1 AREA NOT IN SCOPE OF WORK.
2 EXISTING LIGHT FIXTURE TO REMAIN.
3 DISCONNECT & REMOVE EXISTING LIGHT FIXTURE. REMOVE ASSOCIATED CONDUIT & WIRE.
4 DISCONNECT & REMOVE ALL EXISTING LIGHT FIXTURES & SWITCHING IN AREA UNLESS OTHERWISE NOTED. REMOVE ASSOCIATED CONDUIT & WIRE BACK TO SOURCE.



1

MAIN LEVEL FLOOR PLAN - EAST - LIGHTING DEMO
SCALE = 1/8" = 1'-0"

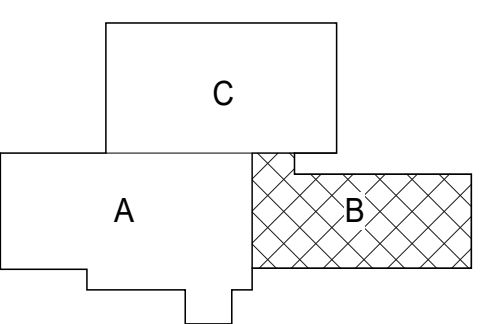
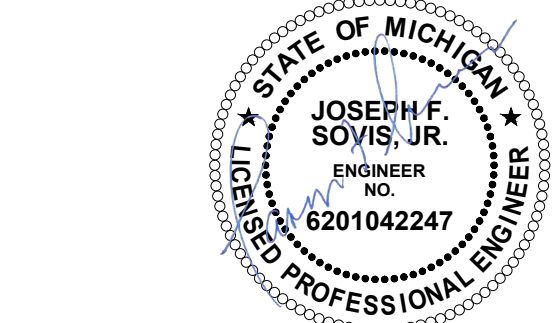
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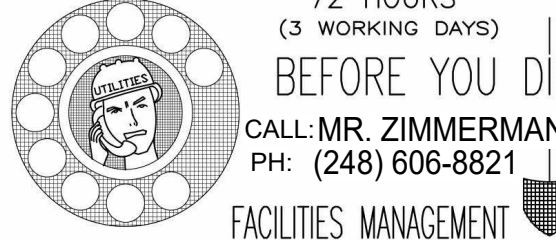




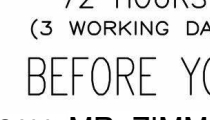
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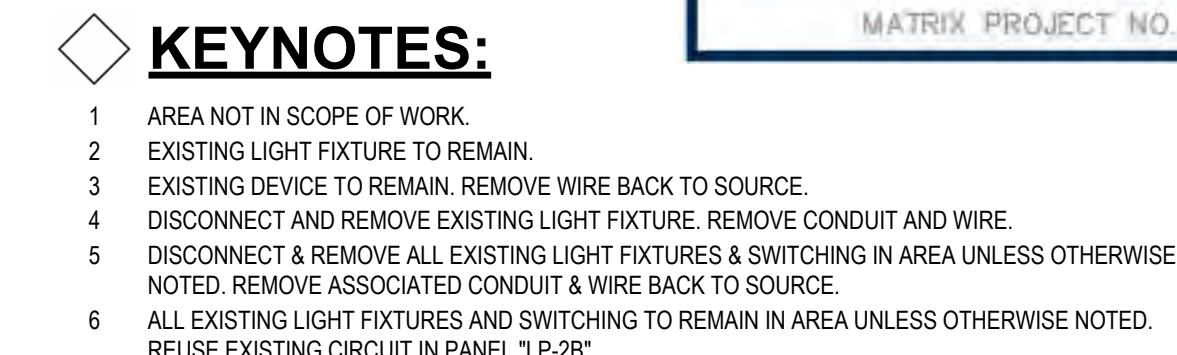


N FOR SITE OWNED UTILITIES

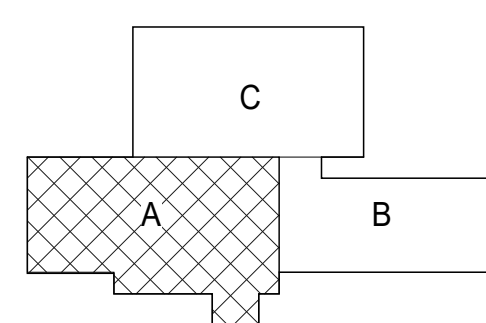


72 HOURS
(3 WORKING DAYS)
BEFORE YOU DIG
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PH: (248) 606-8821
FACILITIES MANAGEMENT



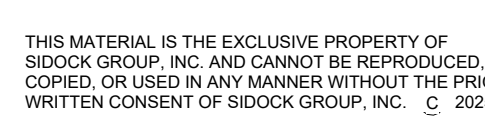
2700 W. Argyle St., Jackson, MI 49202



72 HOURS
(3 WORKING DAYS)
BEFORE YOU DIE

CALL: MR. ZIMMERMAN
PH: (248) 606-8821

FACILITIES MANAGEMENT



E-303	SHEET	IDENTIFICATION NO:	ISSUED FOR:		DATE	DESIGNED
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		FILE NO./INDEX CODE:	CONSTRUCTION	☒		CHECKED
			FINAL RECORD	☐		APPROVED
						JFS

SHEET	E-303
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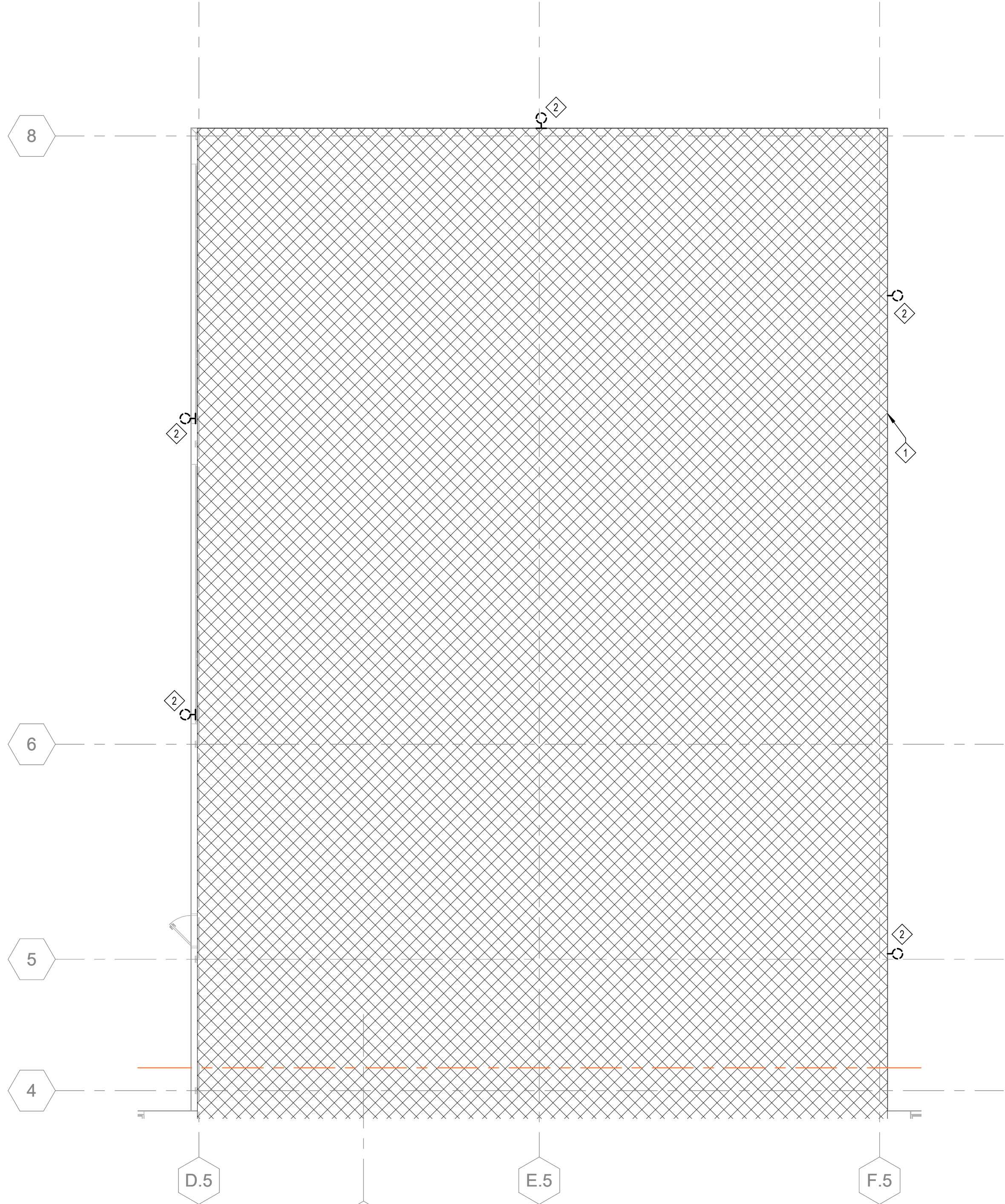
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LANSING, MI 48917

PHONE: (517) 487-2511
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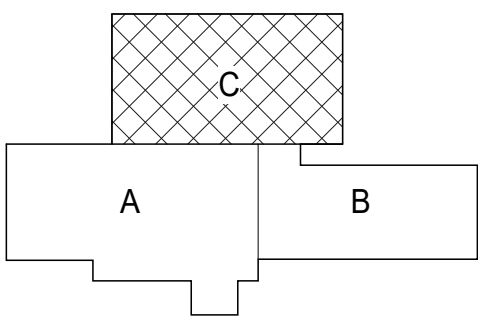
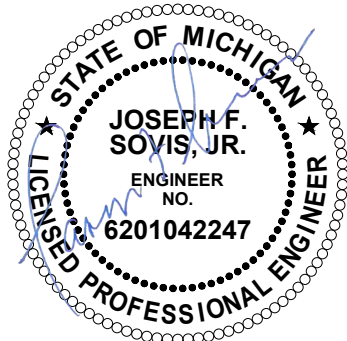
MATRIX PROJECT NO. 24986.00

- KEYNOTES:**
- 1 AREA NOT IN SCOPE OF WORK.
 - 2 DISCONNECT & REMOVE EXISTING LIGHT FIXTURE. REMOVE ASSOCIATED CONDUIT & WIRE.

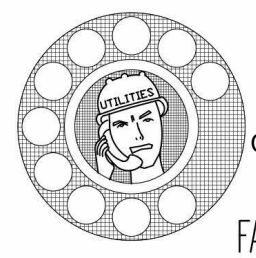


MAIN LEVEL FLOOR PLAN - NORTH - LIGHTING DEMO

1
E-304 SCALE = 1/8" = 1'-0"



FOR SITE OWNED UTILITIES



72 HOURS
(3 WORKING DAYS)
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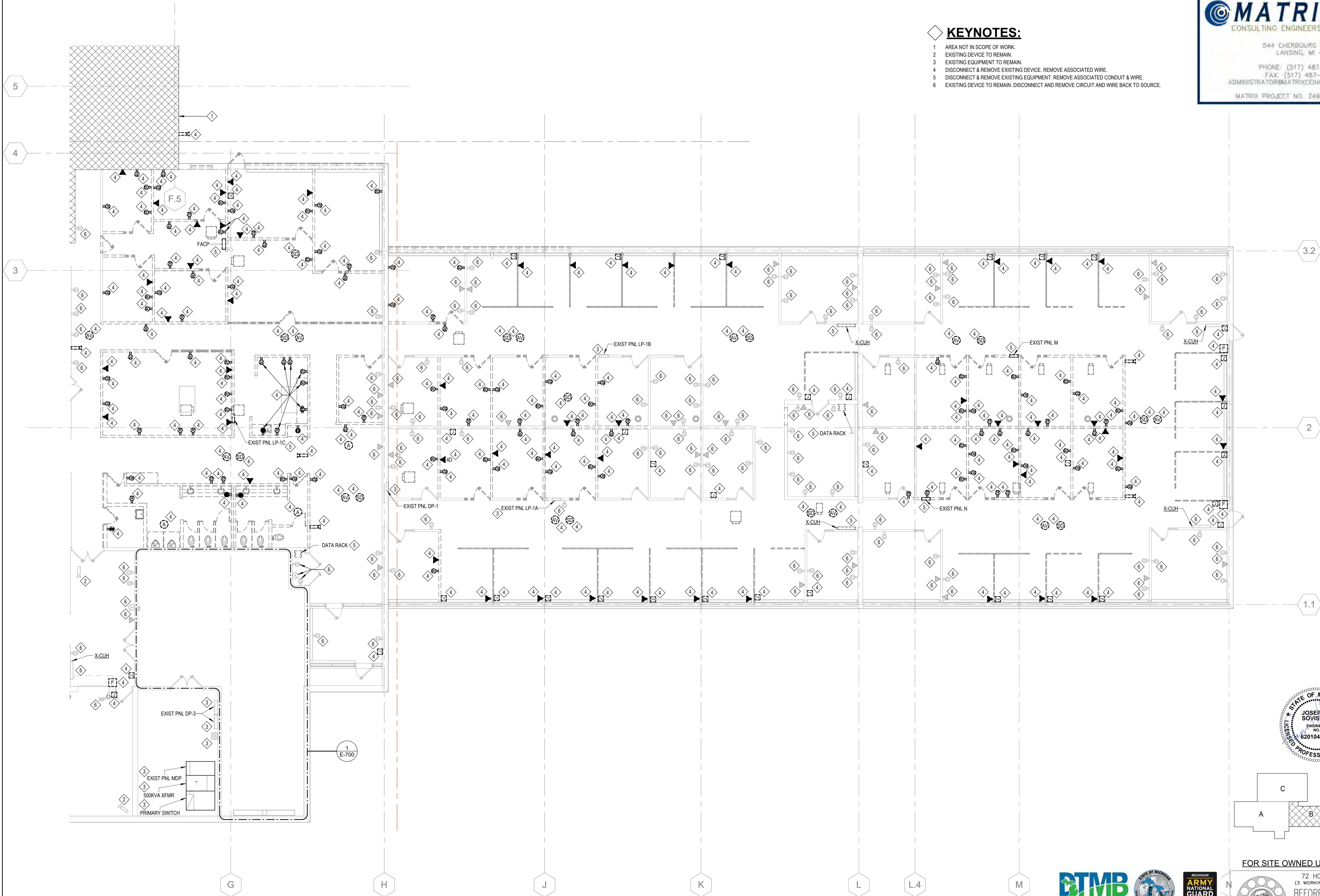
Jackson West Armory Renovations
2700 W. Argyle St., Jackson, MI 49202

SHEET TITLE: MAIN LEVEL FLOOR PLAN - NORTH - LIGHTING DEMO

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DRAWN	11/15/2025	BAE
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APPROVED		JFS

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E-304



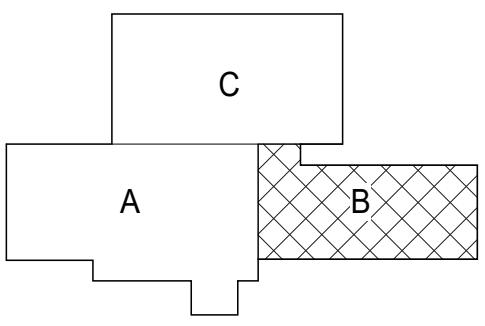
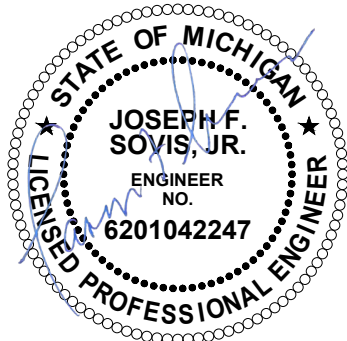
- KEYNOTES:**
- 1 AREA NOT IN SCOPE OF WORK.
 - 2 EXISTING DEVICE TO REMAIN.
 - 3 EXISTING EQUIPMENT TO REMAIN.
 - 4 DISCONNECT & REMOVE EXISTING DEVICE. REMOVE ASSOCIATED WIRE.
 - 5 DISCONNECT & REMOVE EXISTING EQUIPMENT. REMOVE ASSOCIATED CONDUIT & WIRE.
 - 6 EXISTING DEVICE TO REMAIN. DISCONNECT AND REMOVE CIRCUIT AND WIRE BACK TO SOURCE.

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MAIN LEVEL FLOOR PLAN - EAST - POWER DEMO

1
E-305
SCALE = 1/8" = 1'-0"

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E-305



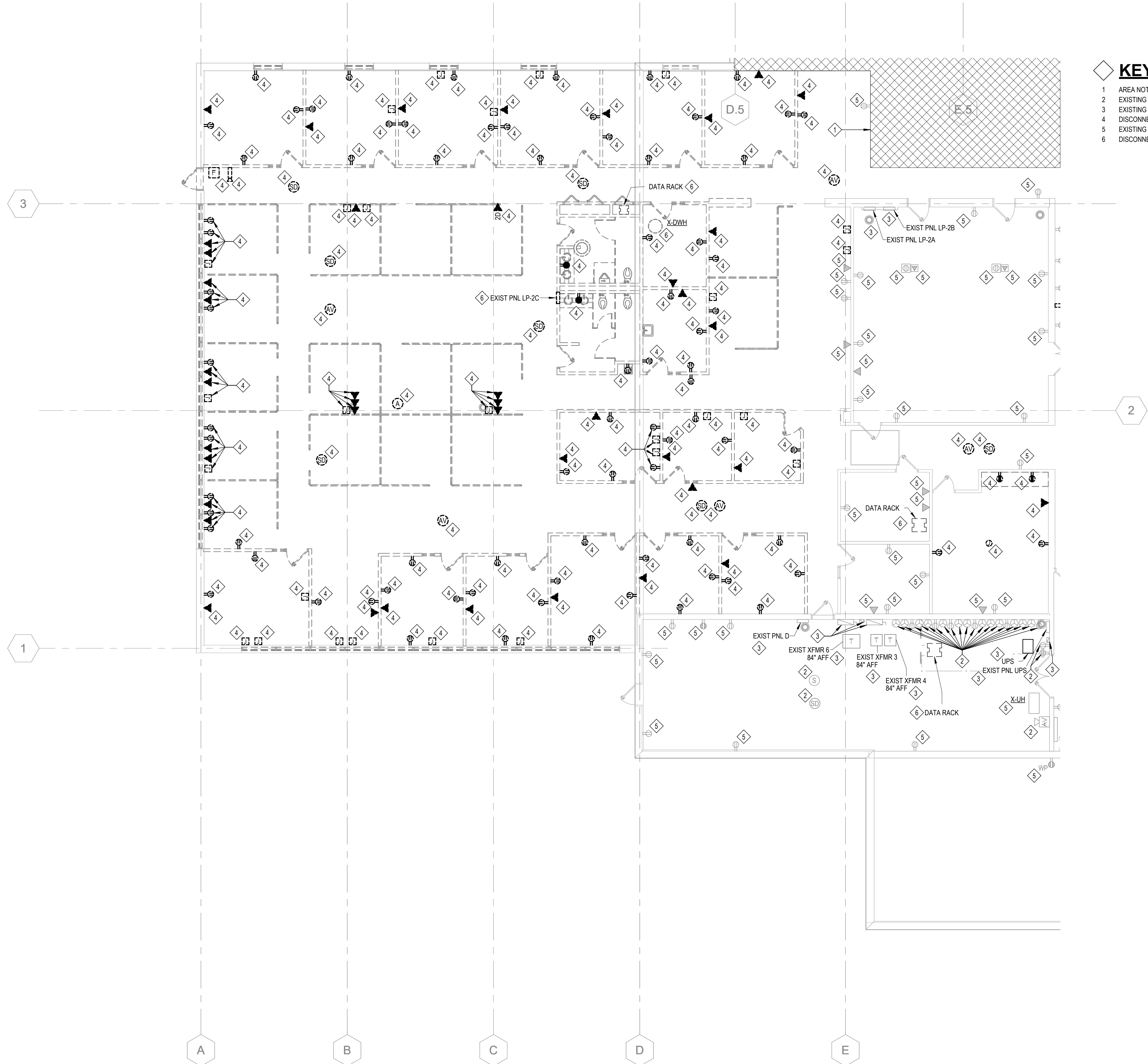
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LANSING, MI 48917

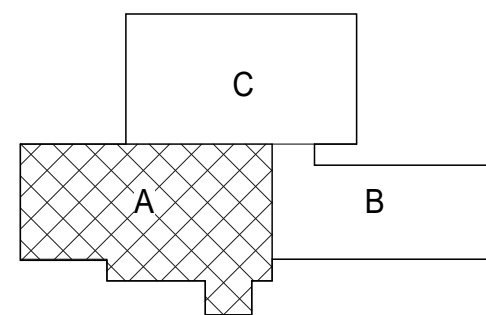
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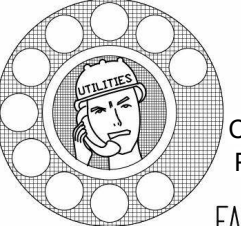
- KEYNOTES:**
- 1 AREA NOT IN SCOPE OF WORK.
 - 2 EXISTING DEVICE TO REMAIN.
 - 3 EXISTING EQUIPMENT TO REMAIN.
 - 4 DISCONNECT & REMOVE EXISTING DEVICE. REMOVE ASSOCIATED WIRE.
 - 5 EXISTING DEVICE TO REMAIN. DISCONNECT AND REMOVE CIRCUIT AND WIRE BACK TO SOURCE.
 - 6 DISCONNECT & REMOVE EXISTING EQUIPMENT. REMOVE ASSOCIATED CONDUIT & WIRE.



MAIN LEVEL FLOOR PLAN - WEST - POWER DEMO
1
E-306 SCALE = 1/8" = 1'-0"



FOR SITE OWNED UTILITIES



72 HOURS
(3 WORKING DAYS)
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Jackson West Armory Renovations
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PROJECT NO: 24886.00
FILE NO/INDEX CODE:

SHEET
E-306



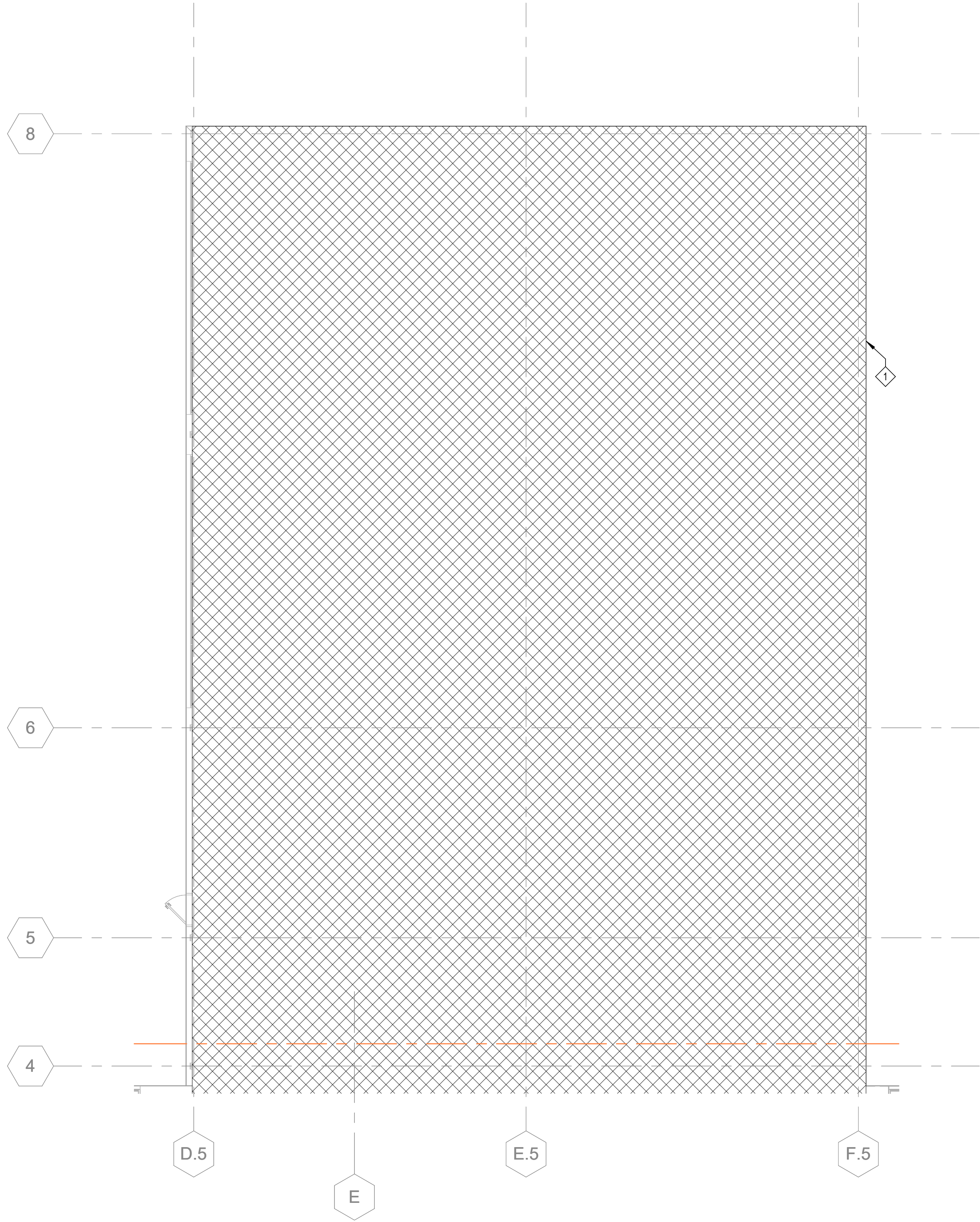
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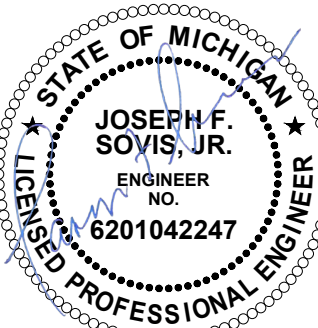
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MATRIX PROJECT NO. 24986.00

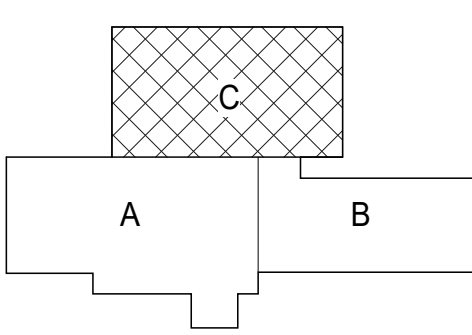
 **KEYNOTES:**
1 AREA NOT IN SCOPE OF WORK.



MAIN LEVEL FLOOR PLAN - NORTH - POWER DEMO
1
E-307 SCALE = 1/8" = 1'-0"

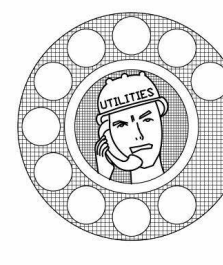


STATE OF MICHIGAN
JOSEPH F. SOJIS, JR.
ENGINEER
NO. 6201042247
LICENSED PROFESSIONAL ENGINEER



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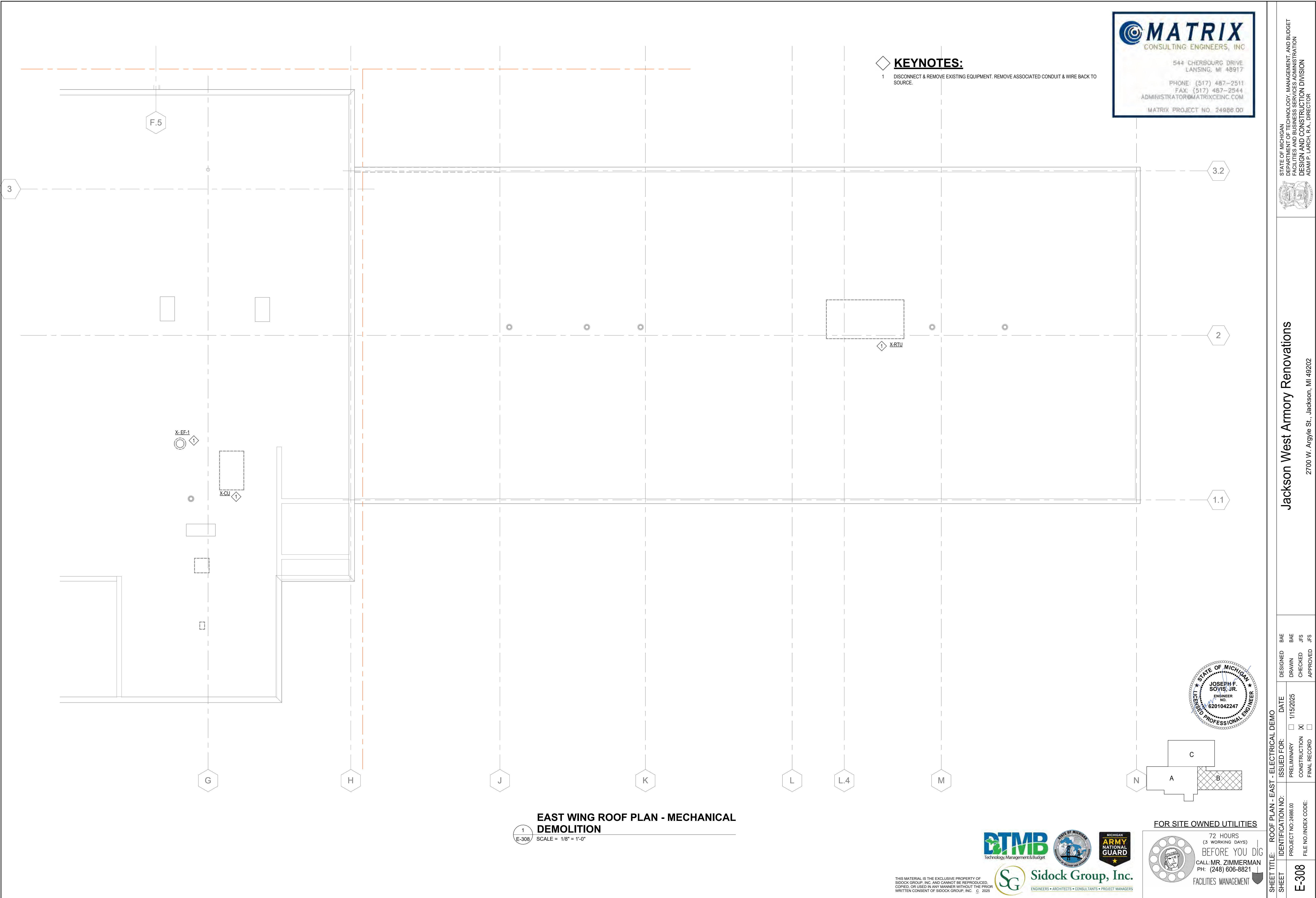
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Jackson West Armory Renovations

2700 W. Argyle St., Jackson, MI 49202

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JFS

APPROVED
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ISSUED FOR:

DATE
1/15/2025

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☐

CONSTRUCTION
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FINAL RECORD
☐

IDENTIFICATION NO:

PROJECT NO: 24986.00

FILE NO/INDEX CODE:

SHEET
E-308

1
E-308

EAST WING ROOF PLAN - MECHANICAL DEMOLITION
SCALE = 1/8" = 1'-0"

STATE OF MICHIGAN
JOSEPH F. SOYIS, JR.
ENGINEER
NO. 6201042247
LICENSED PROFESSIONAL ENGINEER

C
A
B

FOR SITE OWNED UTILITIES

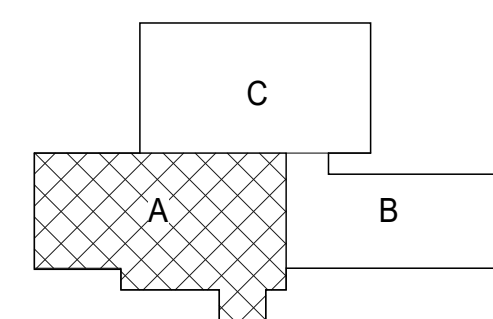
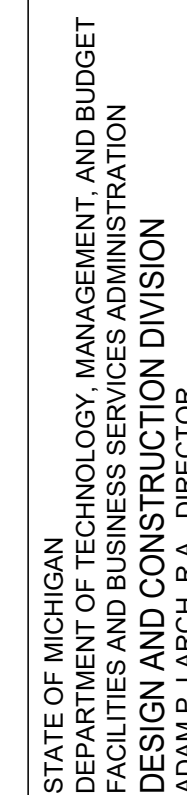
72 HOURS
(3 WORKING DAYS)
BEFORE YOU DIG
CALL: MR. ZIMMERMAN
PH: (248) 606-8821
FACILITIES MANAGEMENT





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72 HOURS
(3 WORKING DAYS)
BEFORE YOU D

CALL: MR. ZIMMERMAN
PH: (248) 606-8821

FACILITIES MANAGEMENT

72 HOURS
(3 WORKING DAYS)
BEFORE YOU
CALL: MR. ZIMMER
PH: (248) 606-882

FACILITIES MANAGEMENT

- 1 EXISTING EQUIPMENT TO REMAIN.
- 2 DISCONNECT & REMOVE EXISTING EQUIPMENT. REMOVE ASSOCIATED CONDUIT & WIRE BACK TO SOURCE.

1
E-309

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

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SHEET TITLE: ROOF PLAN - WEST - ELECTRICAL DEMO

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DATE	JFS

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FINAL RECORD	☐	

IDENTIFICATION NO: PROJECT NO: 24986.00 FILE NO./INDEX CODE:

SHEET 1111	
SHEET	
E-309	

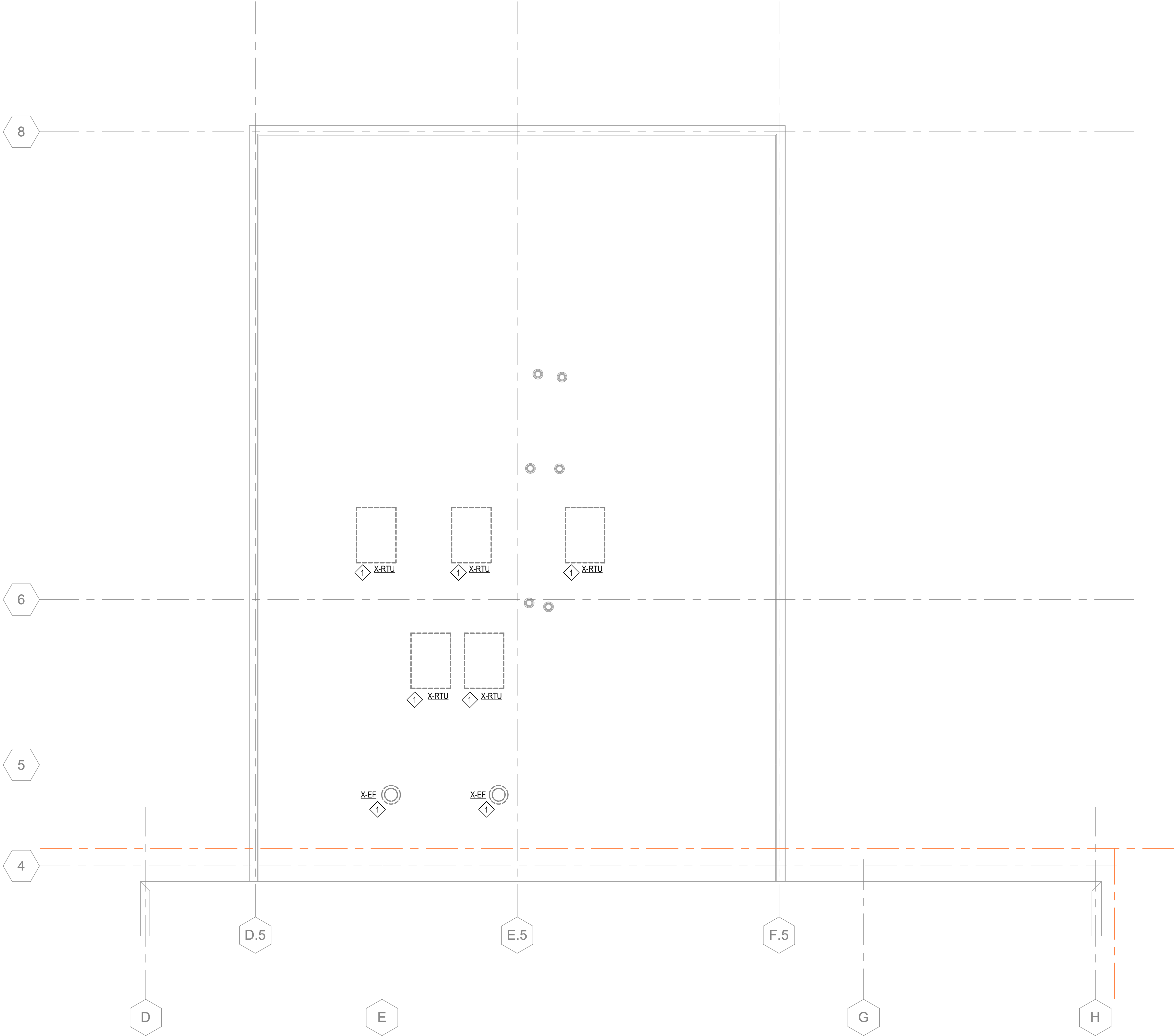


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LANSING, MI 48917

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FAX: (517) 487-2544
ADMINISTRATOR@MATRIXCEINC.COM

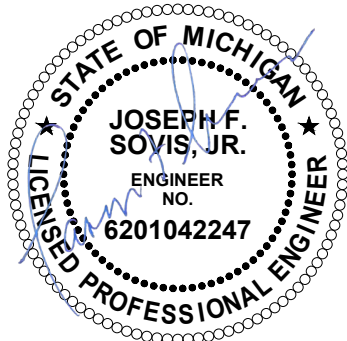
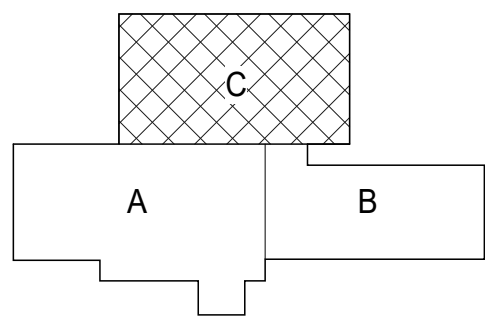
MATRIX PROJECT NO. 24986.00



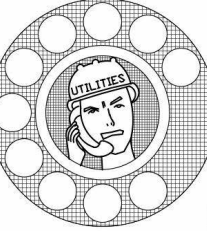
- KEYNOTES:**
- 1 DISCONNECT & REMOVE EXISTING EQUIPMENT. REMOVE ASSOCIATED CONDUIT & WIRE BACK TO SOURCE.

NORTH WING ROOF PLAN - MECHANICAL DEMOLITION

1
E-310
SCALE = 1/8" = 1'-0"



FOR SITE OWNED UTILITIES



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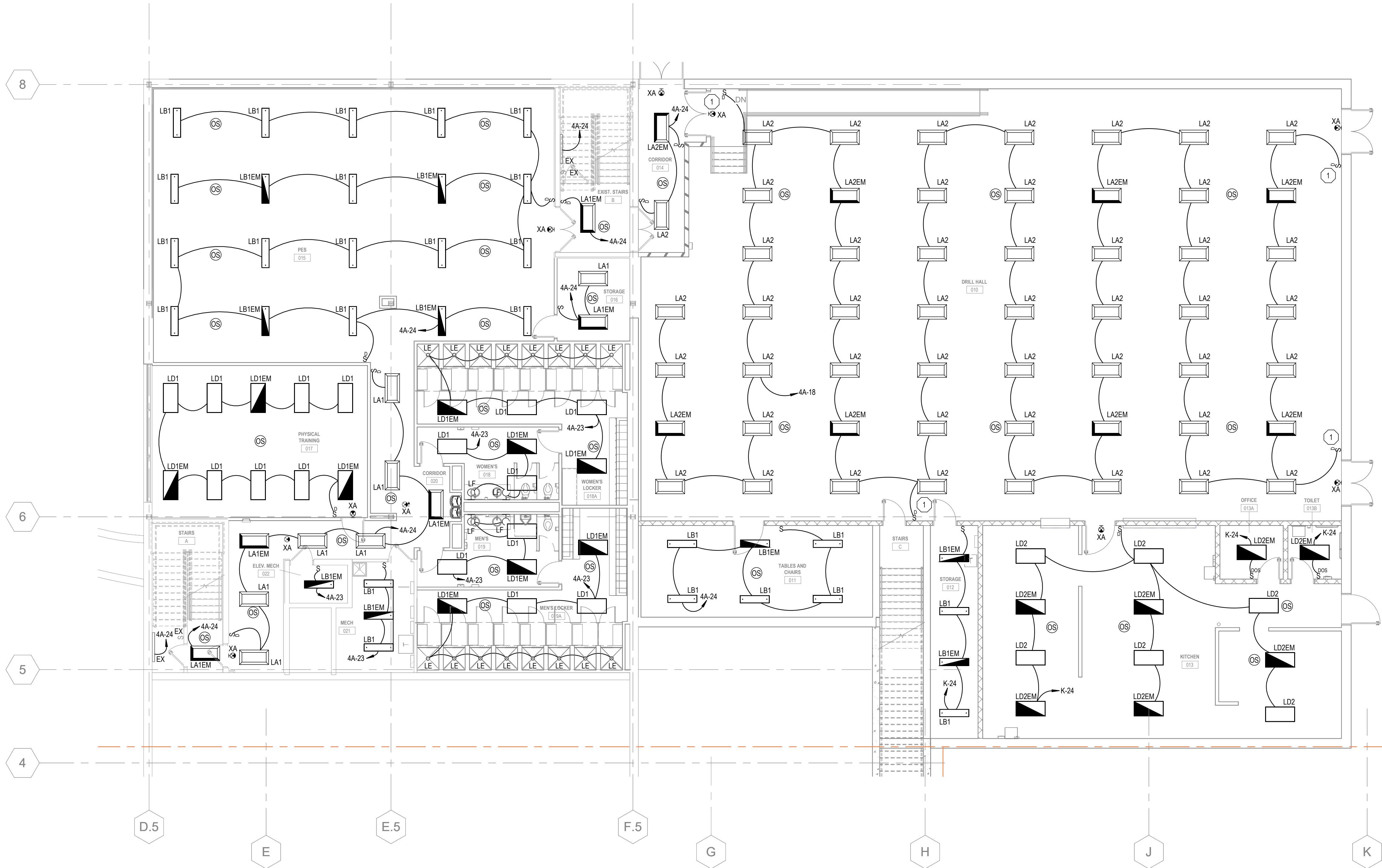
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MATRIX PROJECT NO. 24986.00

- #
- KEYNOTES:**
- 1
- CONTRACTOR SHALL PROVIDE AND INSTALL DIMMER SWITCH PROGRAMMABLE TO SWITCH ON EACH QUADRANT AND THEN EVERY OTHER ROW OF LIGHTS SEPARATELY.

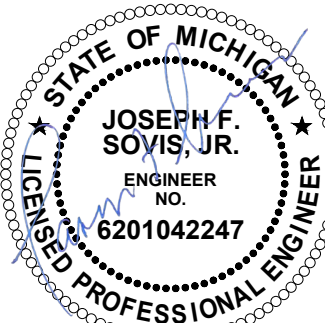


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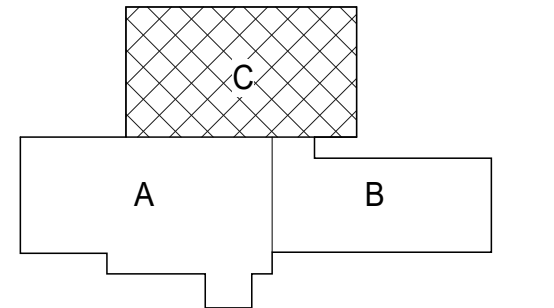
LOWER LEVEL FLOOR PLAN - LIGHTING

E-400

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



STATE OF MICHIGAN
JOSEPH F. SOJKA, JR.
ENGINEER
NO. 6201042247
LICENSED PROFESSIONAL ENGINEER



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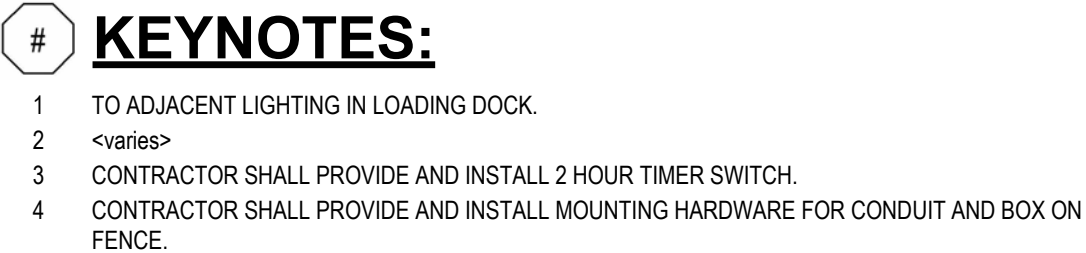


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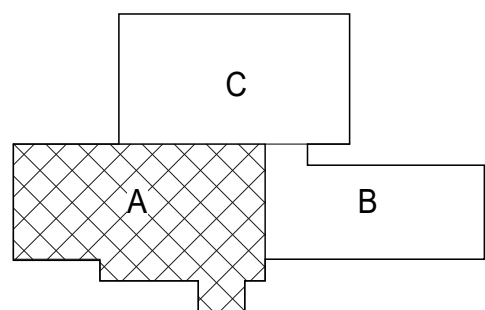
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(3 WORKING DAYS)
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FACILITIES MANAGEMENT

NEW
E-402 SCALE = 1/8" = 1'-0"

SHEET	IDENTIFICATION NO:	ISSUED FOR:		DATE	DESIGNED	BAE
		PROJECT NO: 24986.00	PRELIMINARY ☐			
E-402	FILE NO/INDEX CODE:	CONSTRUCTION	☒	1/15/2025	CHECKED	JFS
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E-402

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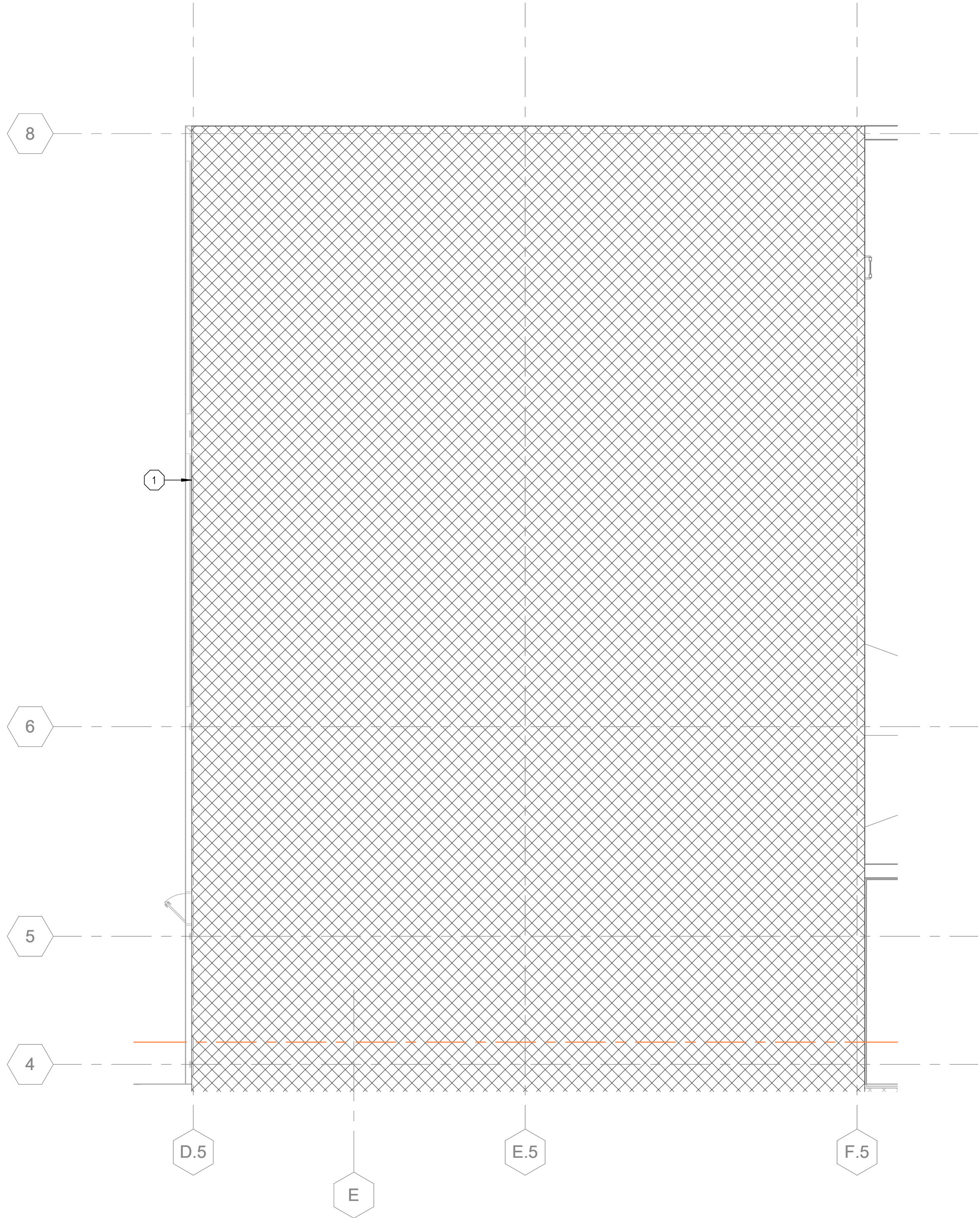


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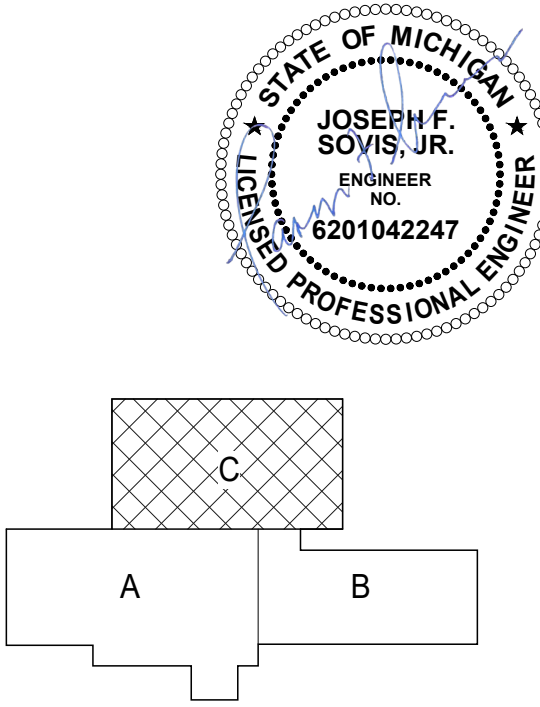




KEYNOTES:
1 AREA NOT IN SCOPE OF WORK.



1
E-403
MAIN LEVEL FLOOR PLAN - NORTH - LIGHTING
NEW
SCALE = 1/8" = 1'-0"



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DEPARTMENT OF TECHNOLOGY, MANAGEMENT, AND BUDGET
FACILITIES AND BUSINESS SERVICES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM P. LARCH, R.A., DIRECTOR



Jackson West Armory Renovations
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IDENTIFICATION NO: PROJECT NO: 24986.00
FILE NO./INDEX CODE:

SHEET TITLE: MAIN LEVEL FLOOR PLAN - NORTH - LIGHTING NEW
SHEET E-403

ELECTRICAL KITCHEN EQUIPMENT LIST

TAG	EQUIPMENT DESCRIPTION	VOLTAGE	PHASE	AMPS	CIRCUIT	DEVICE
2	REFRIGERATOR	120V	1Ø	6.9A	K-8	Φ GFI
2	REFRIGERATOR	120V	1Ø	6.9A	K-10	Φ GFI
3	GARBAGE DISPOSAL	208V	3Ø	13.8A	K-2,4,6	○ GFI
3	GARBAGE DISPOSAL	208V	3Ø	13.8A	K-7,9,11	○ GFI
8	GRIDDLE TOP	120V	1Ø	4A	K-16	Φ GFI
10	ICE MAKER	208V	1Ø	7.8A	K-12,14	○ GFI
16	DISHWASHER	208V	1Ø	43A	K-37,39	○ GFI
20	COFFEE MAKER	120V	1Ø	27.9A	K-13	○ GFI
21	5 WELL WARMING STATION	208V	1Ø	21A	K-19,21	Φ GFI
24	DOUBLE CONVECTION OVEN	120V	1Ø	7.7A	K-18	Φ GFI
24	DOUBLE CONVECTION OVEN	120V	1Ø	7.7A	K-15	Φ GFI
25	COMMERCIAL GAS RANGE COMBO	120V	1Ø	4A	K-17	Φ GFI
26	MAU-1	208V	3Ø	73.4MCA	K-25,27,29	○ GFI
26	KEF-1	120V	1Ø	11.6A	K-26	○ GFI
26	HOOD GAS VALVE	120V	1Ø	-	K-28	○ GFI
26	HOOD LIGHTING	120V	1Ø	-	K-30	○ GFI
26	HOOD CONTROL PANEL	120V	1Ø	-	K-31	○ GFI
27	FOOD WARMING CABINET	120V	1Ø	12.5A	K-20	Φ GFI
34	HOT WATER BOOSTER	208V	3Ø	25A	K-1,3,5	○ GFI

GENERAL ELECTRICAL NOTES:

1. SEE DETAIL 1, 2, & 3 ON PAGE E-800 FOR RECEPTACLE CONTROL FOR GENERAL POWER IN ALL PRIVATE OFFICES, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR PRINTING AND/OR COPYING FUNCTIONS, BREAK ROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS.



STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT, AND BUDGET
FACILITIES AND BUSINESS SERVICES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM P. LARCH, R.A., DIRECTOR

Jackson West Armory Renovations

2700 W. Argyle St., Jackson, MI 49202

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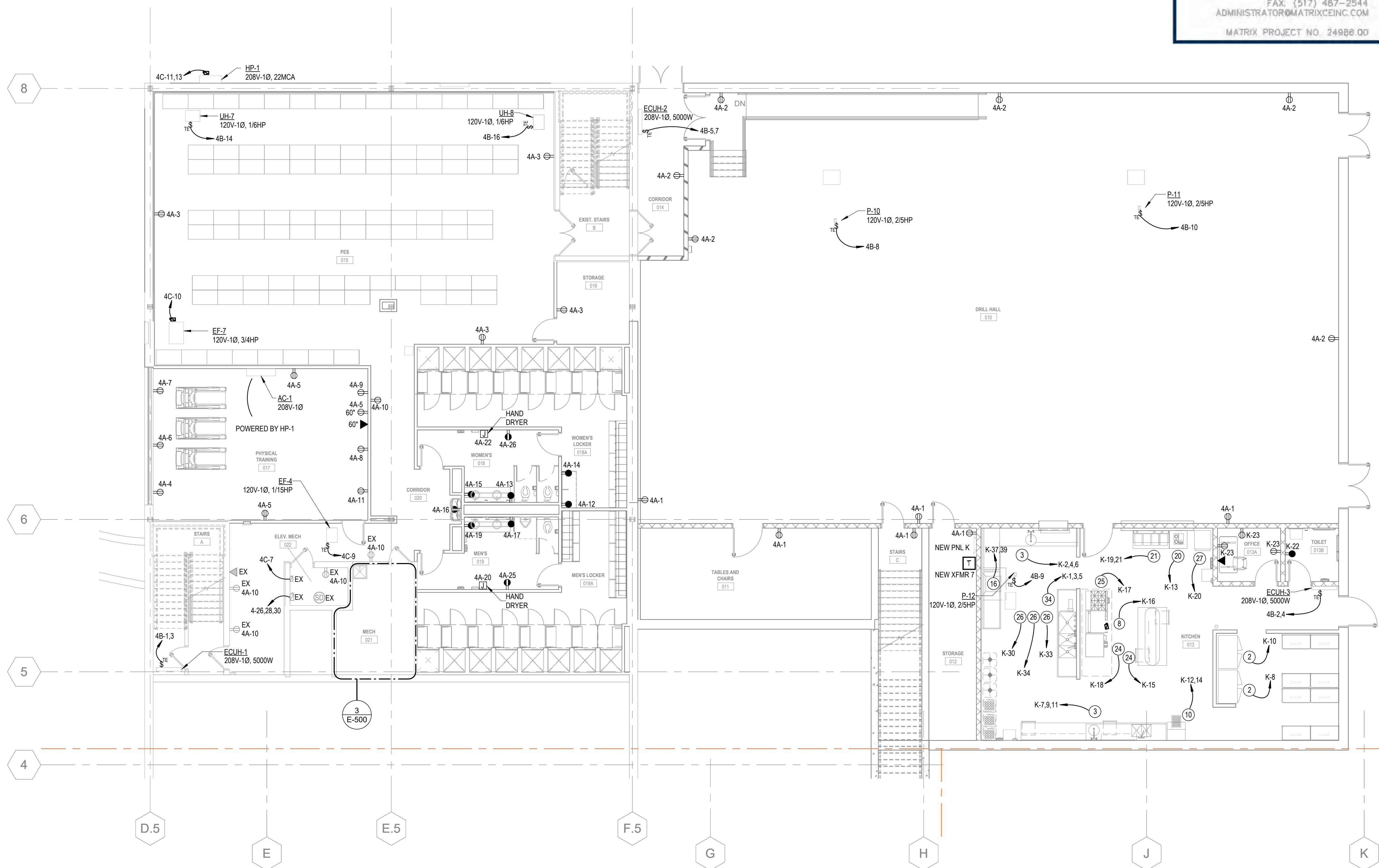
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11/5/2025

IDENTIFICATION NO:
PROJECT NO: 24886.00
FILE NO/INDEX CODE:

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SHEET
E-500

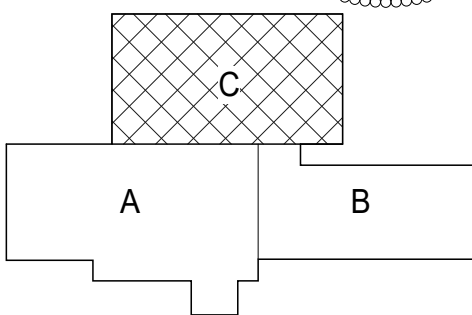
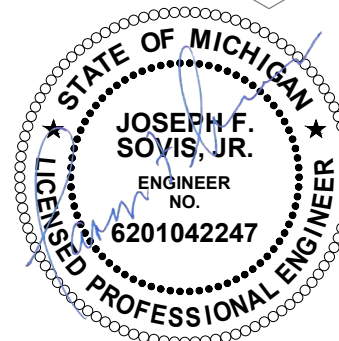
LOWER LEVEL FLOOR PLAN - POWER - ENLARGED

3
E-500
SCALE = 1/4" = 1'-0"

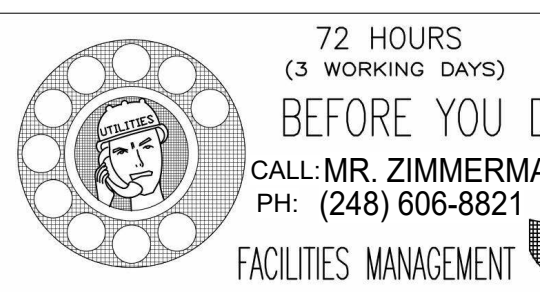


LOWER LEVEL FLOOR PLAN - POWER

1
E-500
SCALE = 1/8" = 1'-0"



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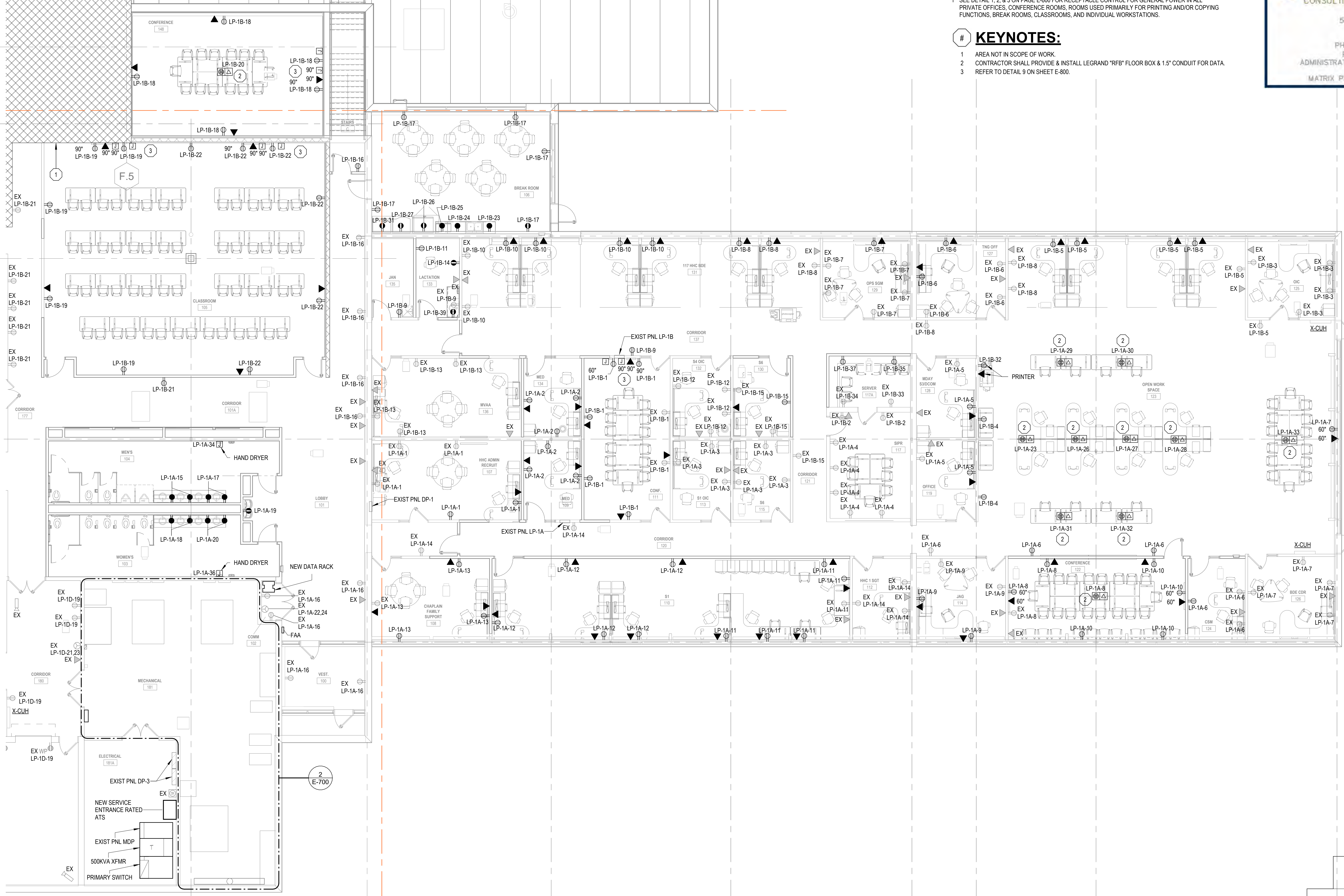
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K

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L.4

M



GENERAL ELECTRICAL NOTES:

- 1 SEE DETAIL 1, 2, & 3 ON PAGE E-800 FOR RECEPTACLE CONTROL FOR GENERAL POWER IN ALL PRIVATE OFFICES, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR PRINTING AND/OR COPYING FUNCTIONS, BREAK ROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS.

KEYNOTES:

- 1 AREA NOT IN SCOPE OF WORK.
- 2 CONTRACTOR SHALL PROVIDE & INSTALL LEGRAND "RFB" FLOOR BOX & 1.5" CONDUIT FOR DATA.
- 3 REFER TO DETAIL 9 ON SHEET E-800.

544 CHERBOURG DRIVE
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PHONE: (517) 487-2511
FAX: (517) 487-2544
ADMINISTRATOR@MATRIXENGINEERS.COM
MATRIX PROJECT NO. 24886.00

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DEPARTMENT OF TECHNOLOGY, MANAGEMENT, AND BUDGET
FACILITIES AND BUSINESS SERVICES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADMINISTRATOR: LARRY R. LARSON, DIRECTOR

Jackson West Armory Renovations

2700 W. Argyle St., Jackson, MI 49202

1 MAIN LEVEL FLOOR PLAN - EAST - POWER NEW
E-501 SCALE = 1/8" = 1'-0"

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(3 WORKING DAYS)
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GENERAL ELECTRICAL NOTES:

1 SEE DETAIL 1, 2, & 3 ON PAGE E-800 FOR RECEPTACLE CONTROL FOR GENERAL POWER IN ALL PRIVATE OFFICES, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR PRINTING AND/OR COPYING FUNCTIONS, BREAK ROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS.

KEYNOTES:

1 AREA NOT IN SCOPE OF WORK. NEW DATA LOCATIONS SHOWN.

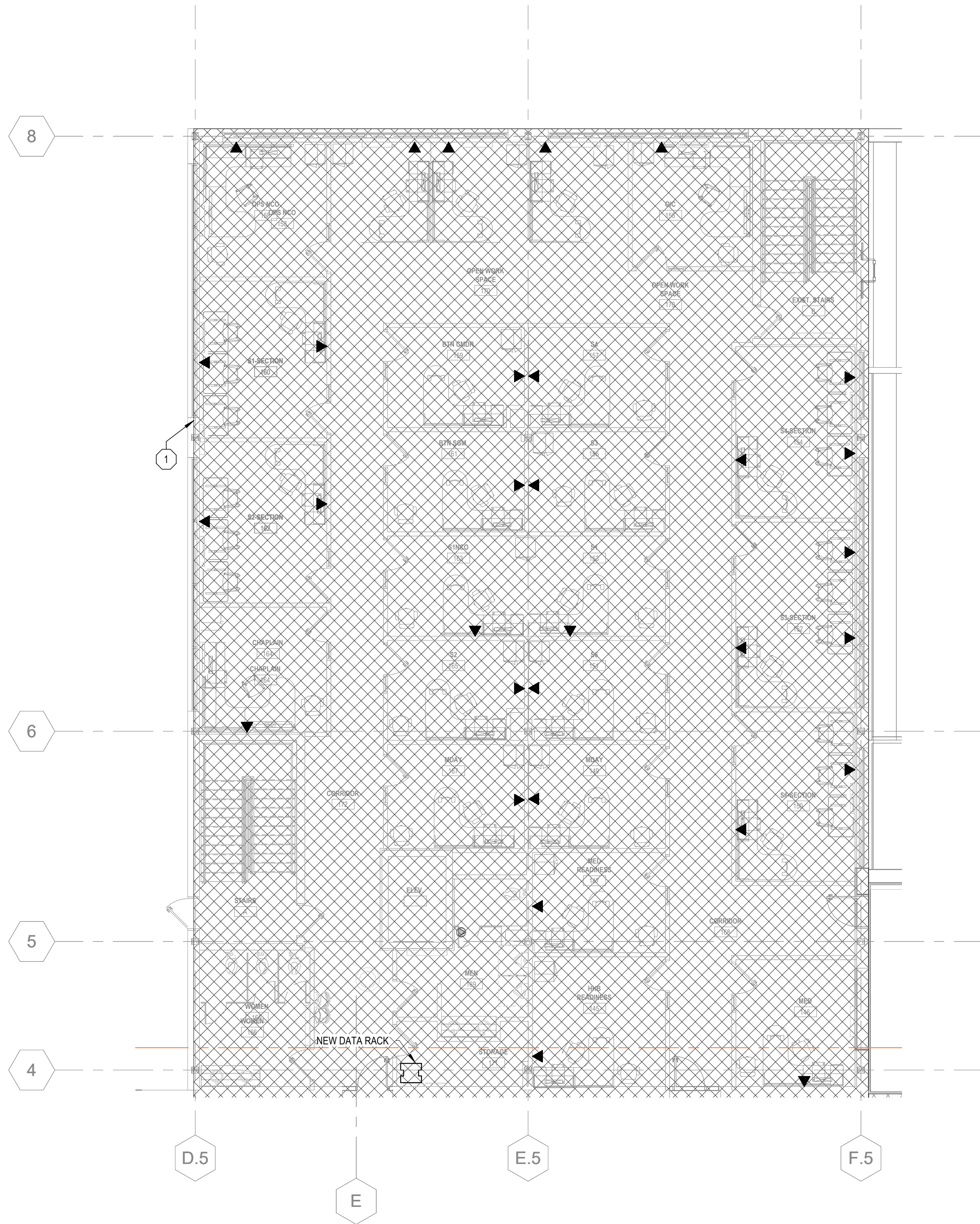


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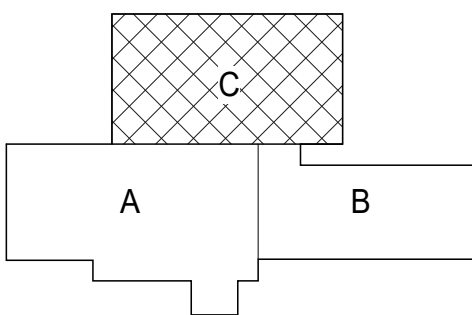
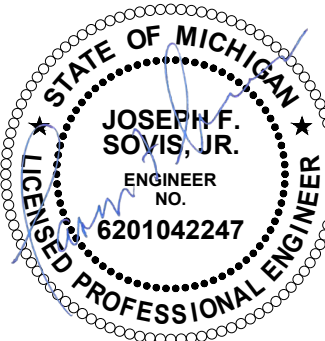
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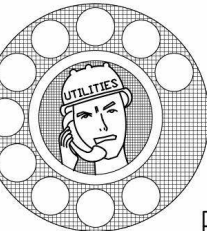
MATRIX PROJECT NO. 24986.00



1
E-503
MAIN LEVEL FLOOR PLAN - NORTH - POWER
NEW
SCALE = 1/8" = 1'-0"



FOR SITE OWNED UTILITIES



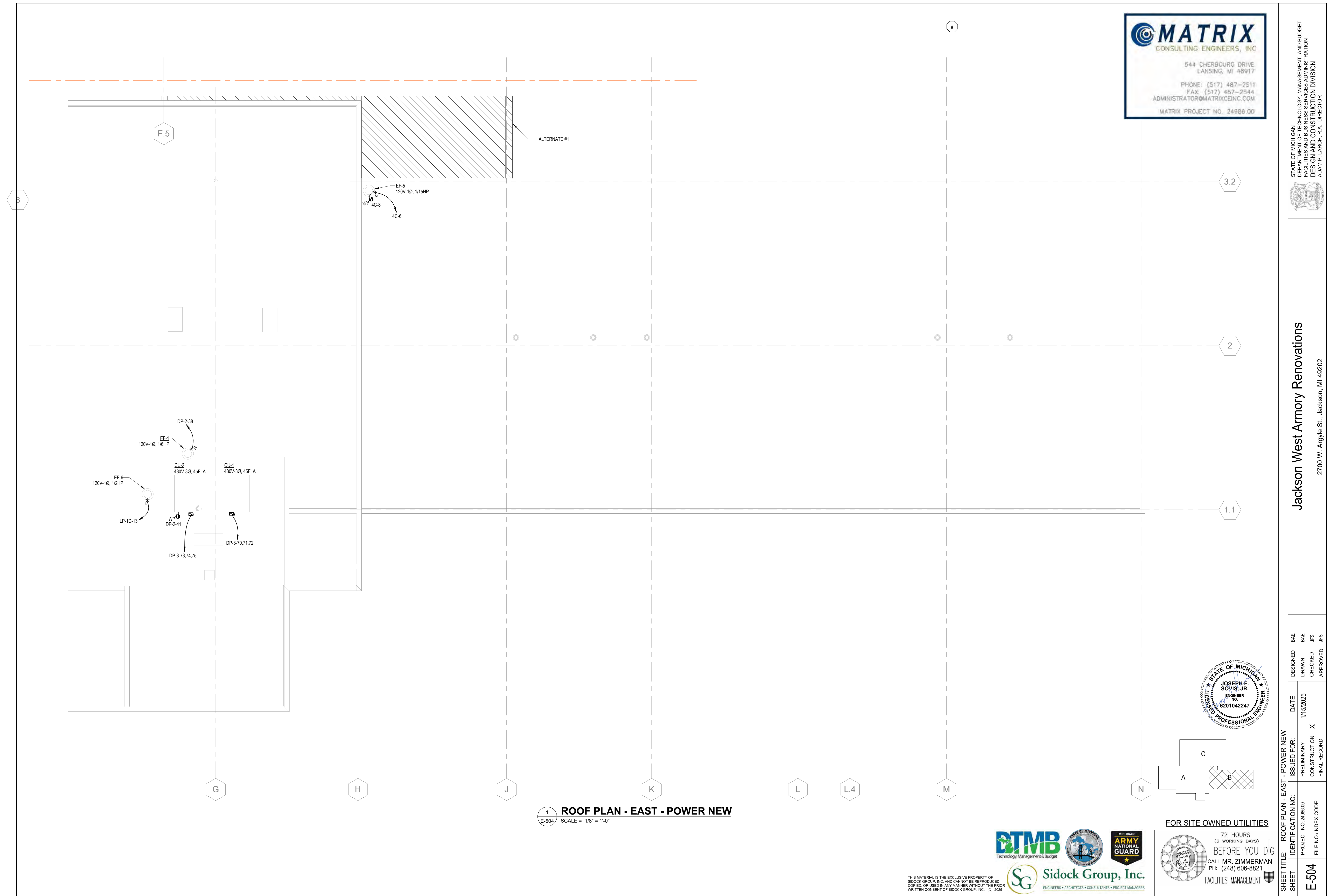
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FACILITIES MANAGEMENT

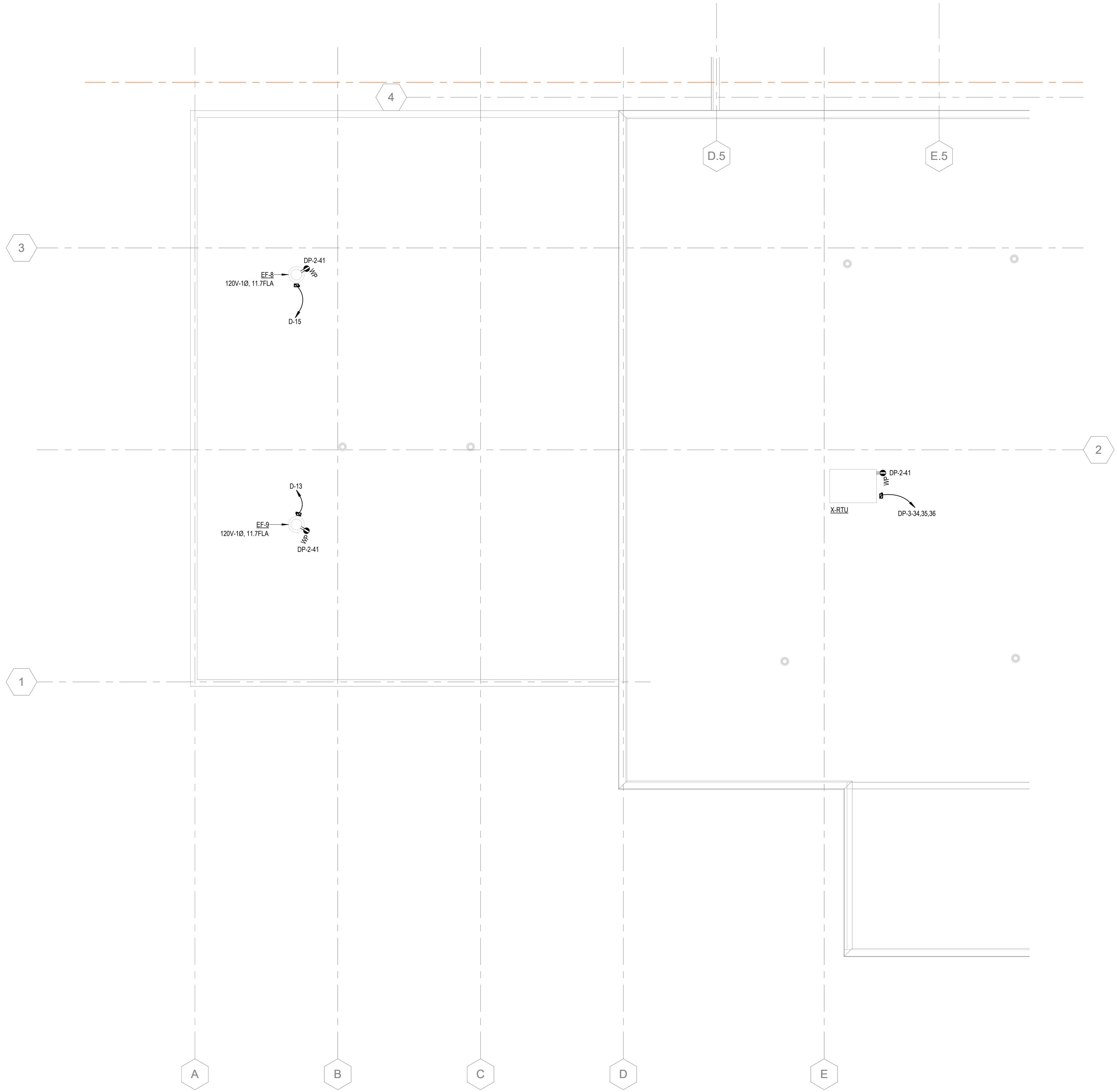


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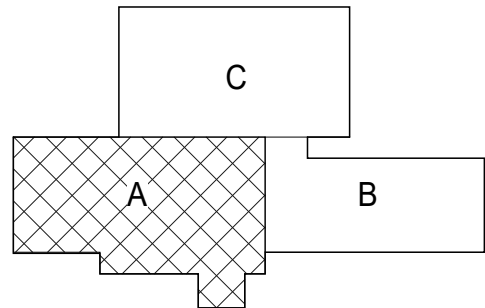
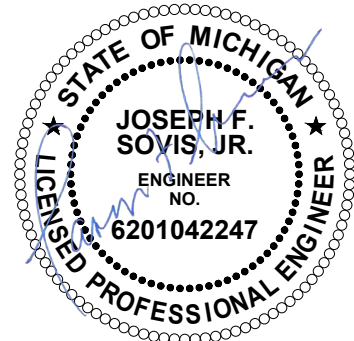
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FACILITIES AND BUSINESS SERVICES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM P. LARCH, P.E., DIRECTOR

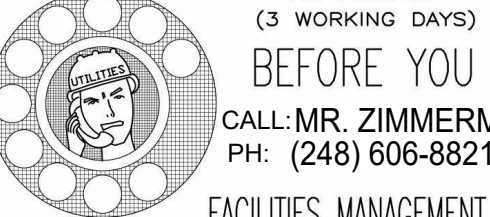


Jackson West Armory Renovations

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1
E-505
ROOF PLAN - WEST - POWER NEW
SCALE = 1/8" = 1'-0"



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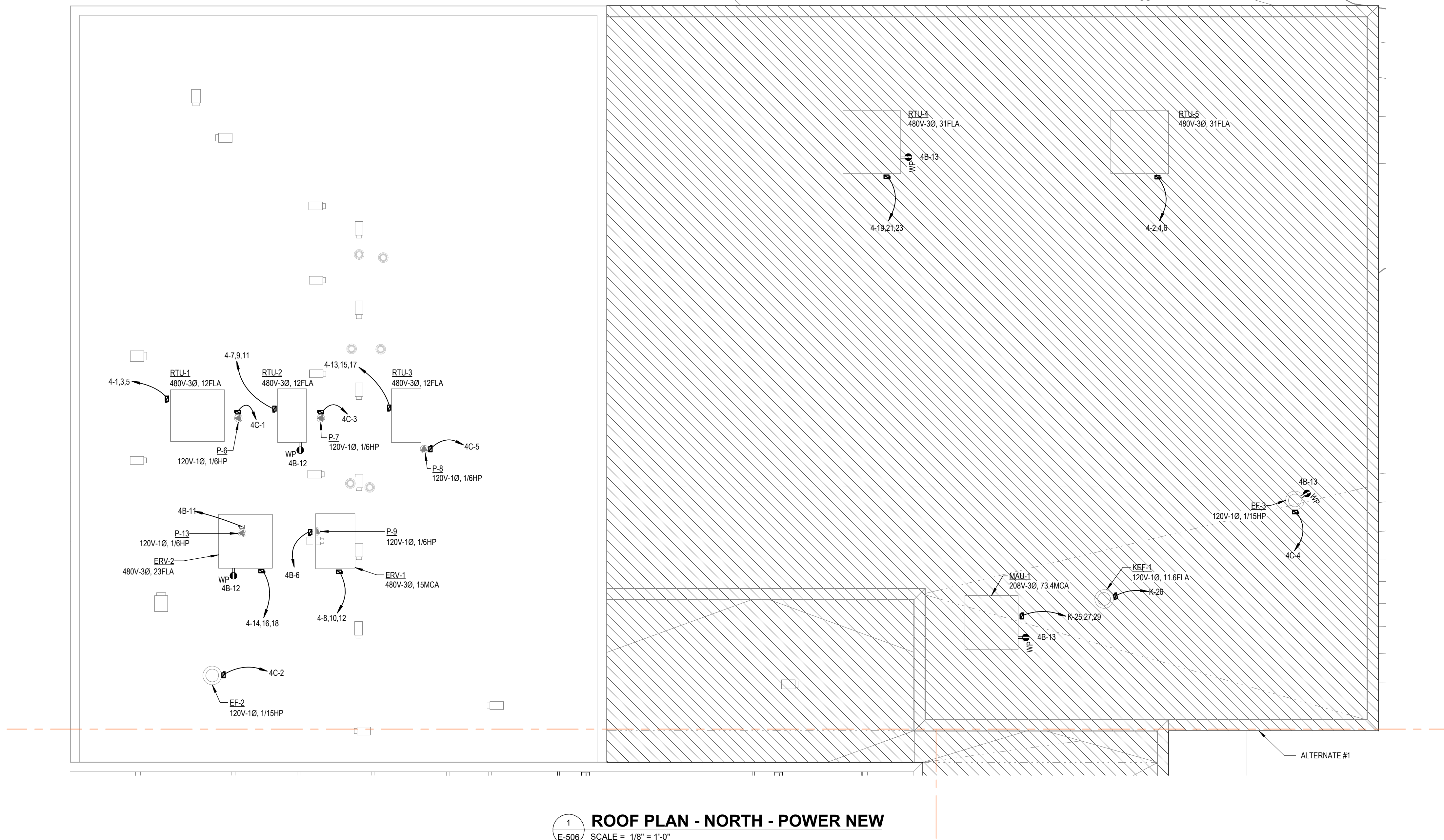
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STATE OF MICHIGAN
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DESIGN AND CONSTRUCTION DIVISION
ADAM P. LARCH, R.A., DIRECTOR

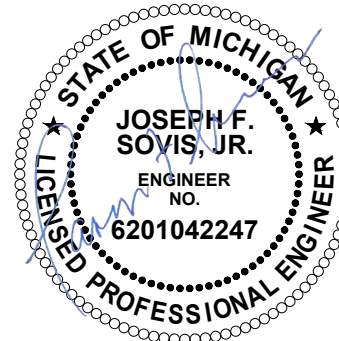
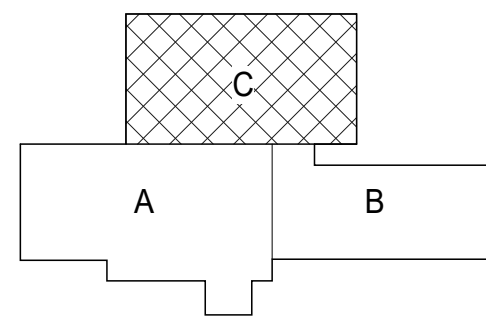


Jackson West Armory Renovations

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1 ROOF PLAN - NORTH - POWER NEW
E-506 SCALE = 1/8" = 1'-0"



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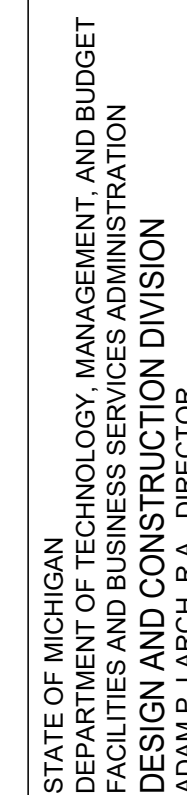
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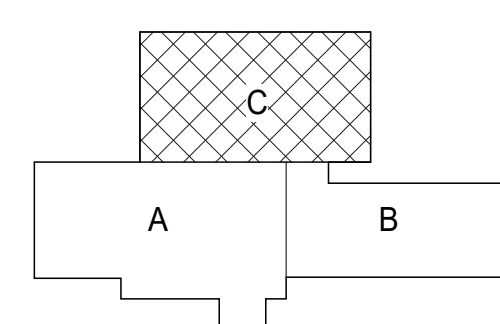
IDENTIFICATION NO:
PROJECT NO: 24886.00
FILE NO/INDEX CODE:

E-506



2700 W Arroyo St Jackson MI 49203

-
- A circular professional engineer seal for the State of Michigan. The outer ring contains the text "STATE OF MICHIGAN" at the top and "LICENSED PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The center of the seal contains the name "JOSEPH F. SOVIS, JR.", the title "ENGINEER", and the license number "NO. 6201042247". A blue ink signature is written across the seal.



FOR SITE OWNED UTILITIES



72 HOURS
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DTMB
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1
E-507

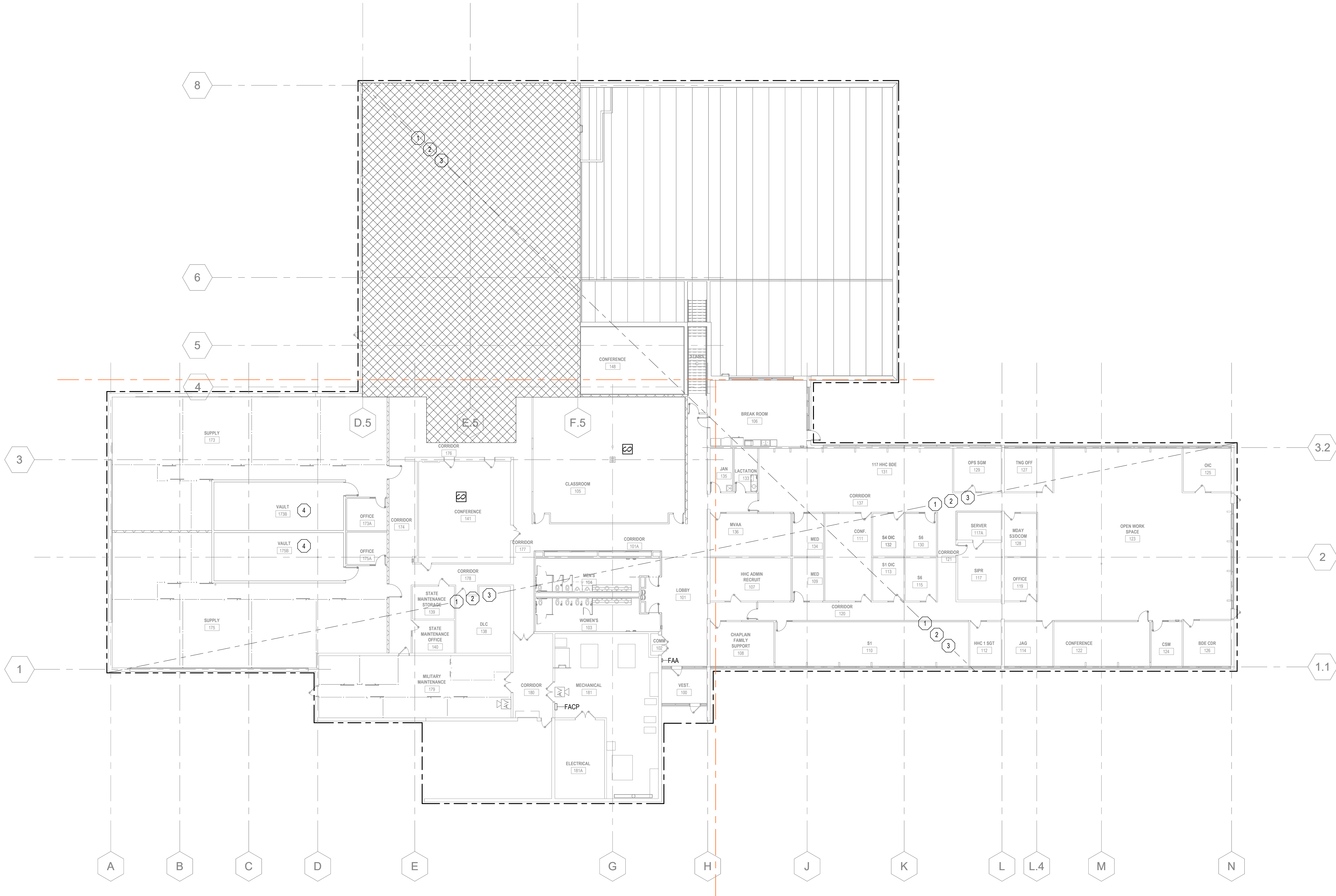
LOWER LEVEL FLOOR PLAN - FIRE ALARM

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

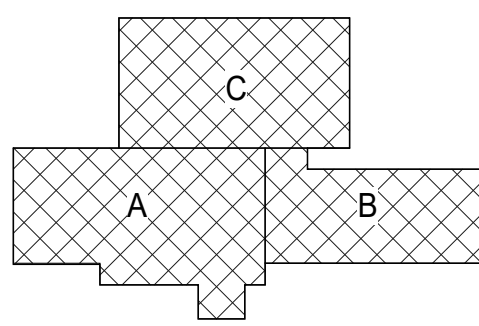
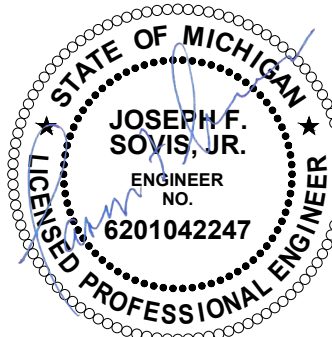
SCALE = 1/8" = 1'-0"



- # KEYNOTES:
- 1 CONTRACTOR SHALL PROVIDE AND INSTALL NEW BUILDING FIRE ALARM SYSTEM THROUGHOUT THE ENTIRE BUILDING. DESIGN FIRE ALARM SYSTEM TO MEET THE MICHIGAN FIRE CODE, NFPA 72, MICHIGAN BUILDING CODE, AND MICHIGAN MECHANICAL CODE. PROVIDE ALL NECESSARY 120V POWER, BACK BOXES, AND RACEWAYS ROUTED CONCEALED OUT OF SITE FOR NEW HEAD END AND ASSOCIATED FIRE ALARM DEVICES.
 - 2 CONTRACTOR WILL NEED TO FIELD VERIFY ALL EXISTING ROOF TOP UNITS TO CONFIRM AND REPLACE EXISTING DUCT SMOKE DETECTORS WITH NEW DUCT SMOKE DETECTORS COMPATIBLE WITH THE NEW FIRE ALARM SYSTEM.
 - 3 CONTRACTOR WILL NEED TO REFER TO NEW MECHANICAL DRAWINGS TO PROVIDE NEW DUCT DETECTORS FOR ALL ROOF MOUNTED EQUIPMENT REQUIRED BY CODE. ALL FINAL FIRE ALARM DEVICE LOCATIONS WILL NEED TO BE FIELD VERIFIED AND COORDINATED WITH ARCHITECTURAL PRIOR TO START OF CONSTRUCTION.
 - 4 VAULT FIRE ALARM SHALL COMPLY WITH CODE SECTION 907.2.



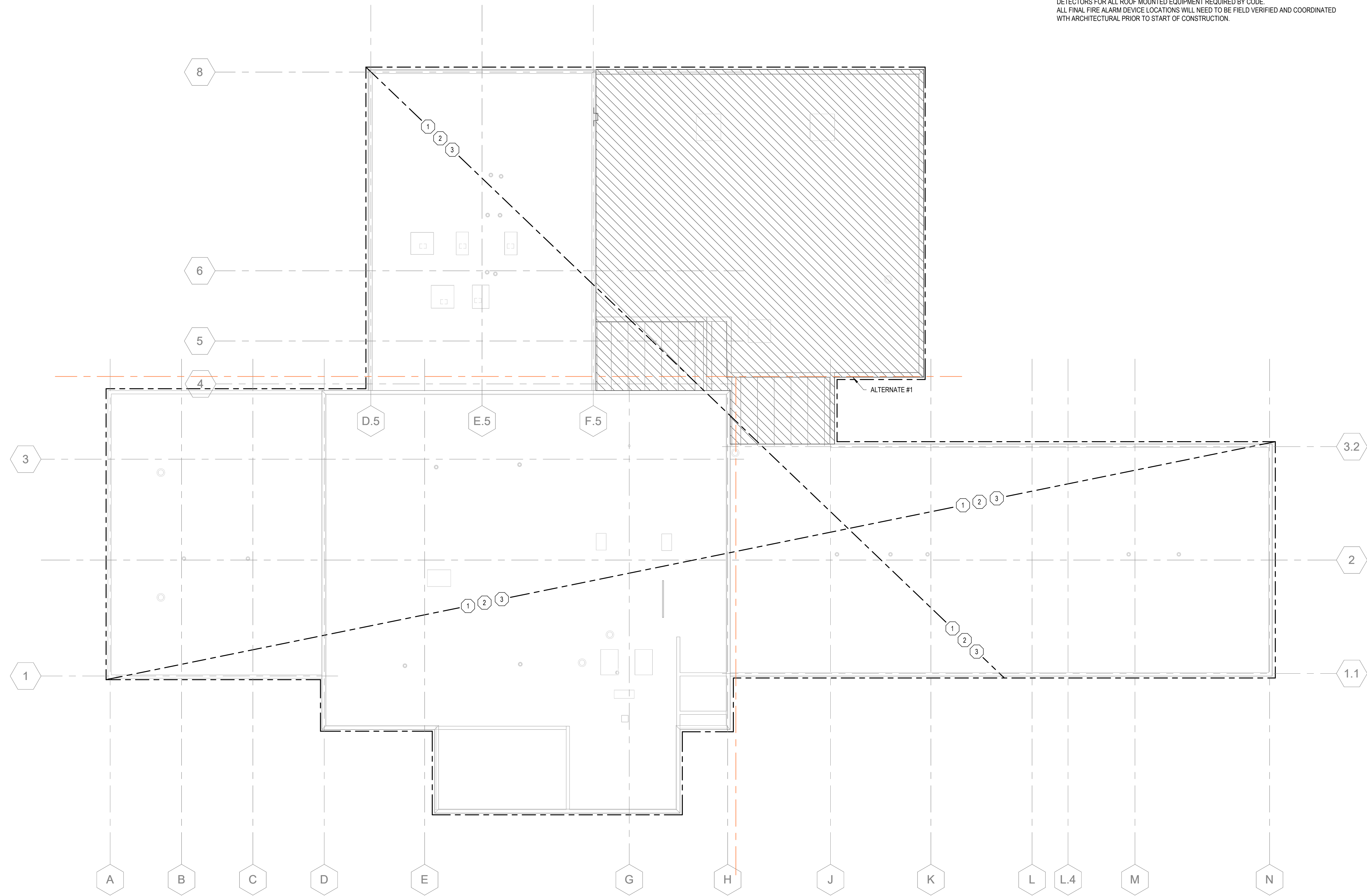
1 MAIN LEVEL FLOOR PLAN - FIRE ALARM
E-508 SCALE = 1/16" = 1'-0"



FOR SITE OWNED UTILITIES



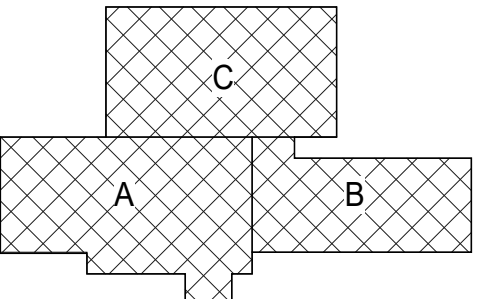
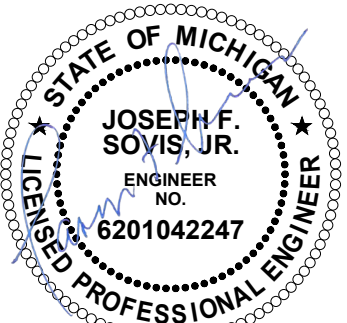
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1 ROOF PLAN - FIRE ALARM
E-509 SCALE = 1/16" = 1'-0"

- # KEYNOTES:
- 1 CONTRACTOR SHALL PROVIDE AND INSTALL NEW BUILDING FIRE ALARM SYSTEM THROUGHOUT THE ENTIRE BUILDING. DESIGN FIRE ALARM SYSTEM TO MEET THE MICHIGAN FIRE CODE, NFPA 72, MICHIGAN BUILDING CODE, AND MICHIGAN MECHANICAL CODE. PROVIDE ALL NECESSARY 120V POWER, BACK BOXES, AND RACEWAYS ROUTED CONCEALED OUT OF SITE FOR NEW HEAD END AND ASSOCIATED FIRE ALARM DEVICES.
 - 2 CONTRACTOR WILL NEED TO FIELD VERIFY ALL EXISTING ROOF TOP UNITS TO CONFIRM AND REPLACE EXISTING DUCT SMOKE DETECTORS WITH NEW DUCT SMOKE DETECTORS COMPATIBLE WITH THE NEW FIRE ALARM SYSTEM.
 - 3 CONTRACTOR WILL NEED TO REFER TO NEW MECHANICAL DRAWINGS TO PROVIDE NEW DUCT DETECTORS FOR ALL ROOF MOUNTED EQUIPMENT REQUIRED BY CODE. ALL FINAL FIRE ALARM DEVICE LOCATIONS WILL NEED TO BE FIELD VERIFIED AND COORDINATED WITH ARCHITECTURAL PRIOR TO START OF CONSTRUCTION.

544 CHERBOURG DRIVE
LANSING, MI 48917
PHONE: (517) 487-2511
FAX: (517) 487-2544
ADMINISTRATOR@MATRIXCEINC.COM
MATRIX PROJECT NO. 24986.00

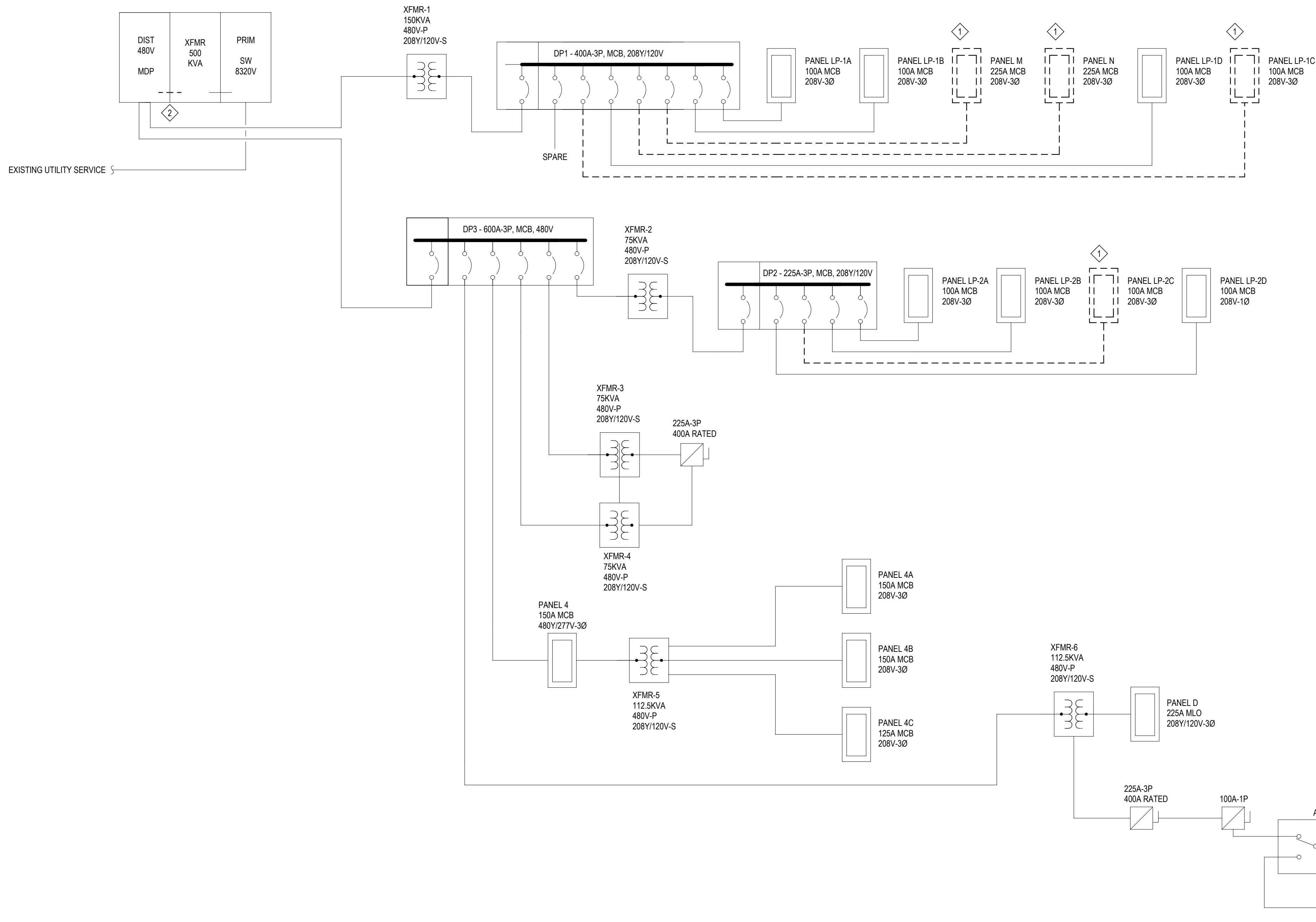


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KEYNOTES:

- 1 DISCONNECT AND REMOVE EXISTING EQUIPMENT. REMOVE CONDUIT AND WIRE.
- 2 DISCONNECT CONNECTION BETWEEN MDP AND 500KVA XFMR.

1 ELECTRICAL RISER DIAGRAM - EXISTING
E-600 NOT TO SCALE



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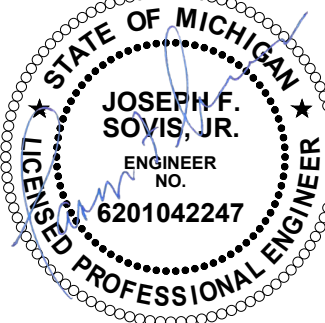
Jackson West Armory Renovations
2700 W. Argyle St., Jackson, MI 49202

DESIGNED BAE
DRAWN BAE
CHECKED JFS
APPROVED JFS

DATE 11/5/2025
ISSUED FOR: PRELIMINARY ☐ CONSTRUCTION ☒ FINAL RECORD ☐

IDENTIFICATION NO: PROJECT NO: 24986.00
FILE NO/INDEX CODE:

SHEET E-600



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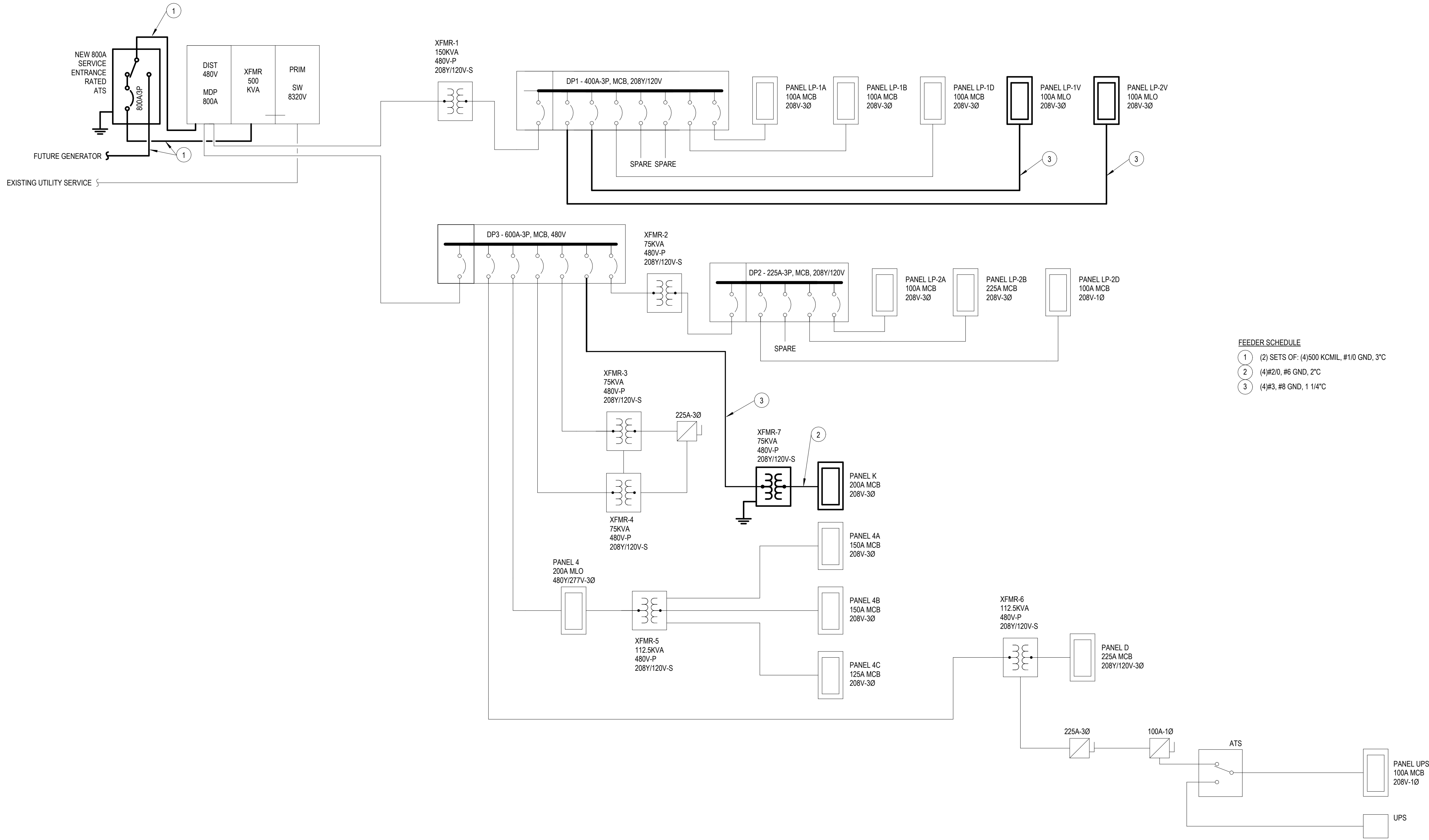


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CONSULTING ENGINEERS, INC.

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FAX: (517) 487-2544
ADMINISTRATOR@MATRIXCEINC.COM

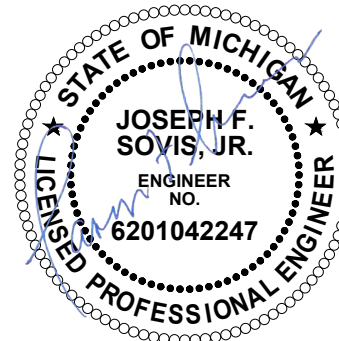
MATRIX PROJECT NO. 24886.00



1
E-601

ELECTRICAL RISER DIAGRAM - NEW

SCALE = 1" = 1'-0"



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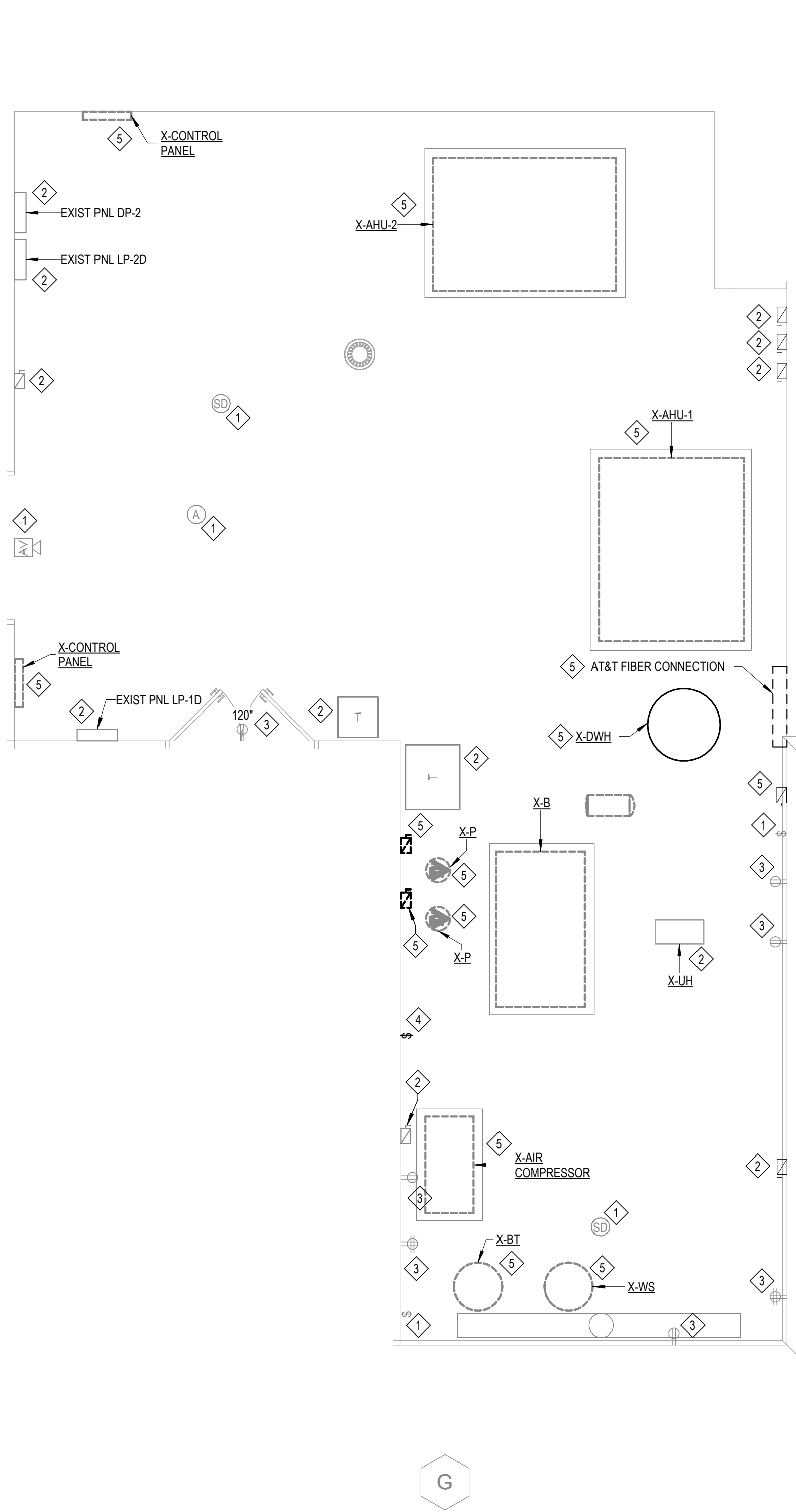
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KEYNOTES:

- 1 EXISTING DEVICE TO REMAIN.
- 2 EXISTING EQUIPMENT TO REMAIN.
- 3 EXISTING DEVICE TO REMAIN. DISCONNECT AND REMOVE CIRCUIT AND WIRE BACK TO SOURCE.
- 4 DISCONNECT & REMOVE EXISTING DEVICE. REMOVE ASSOCIATED CONDUIT & WIRE BACK TO SOURCE.
- 5 DISCONNECT & REMOVE EXISTING EQUIPMENT. REMOVE ASSOCIATED CONDUIT & WIRE BACK TO SOURCE.

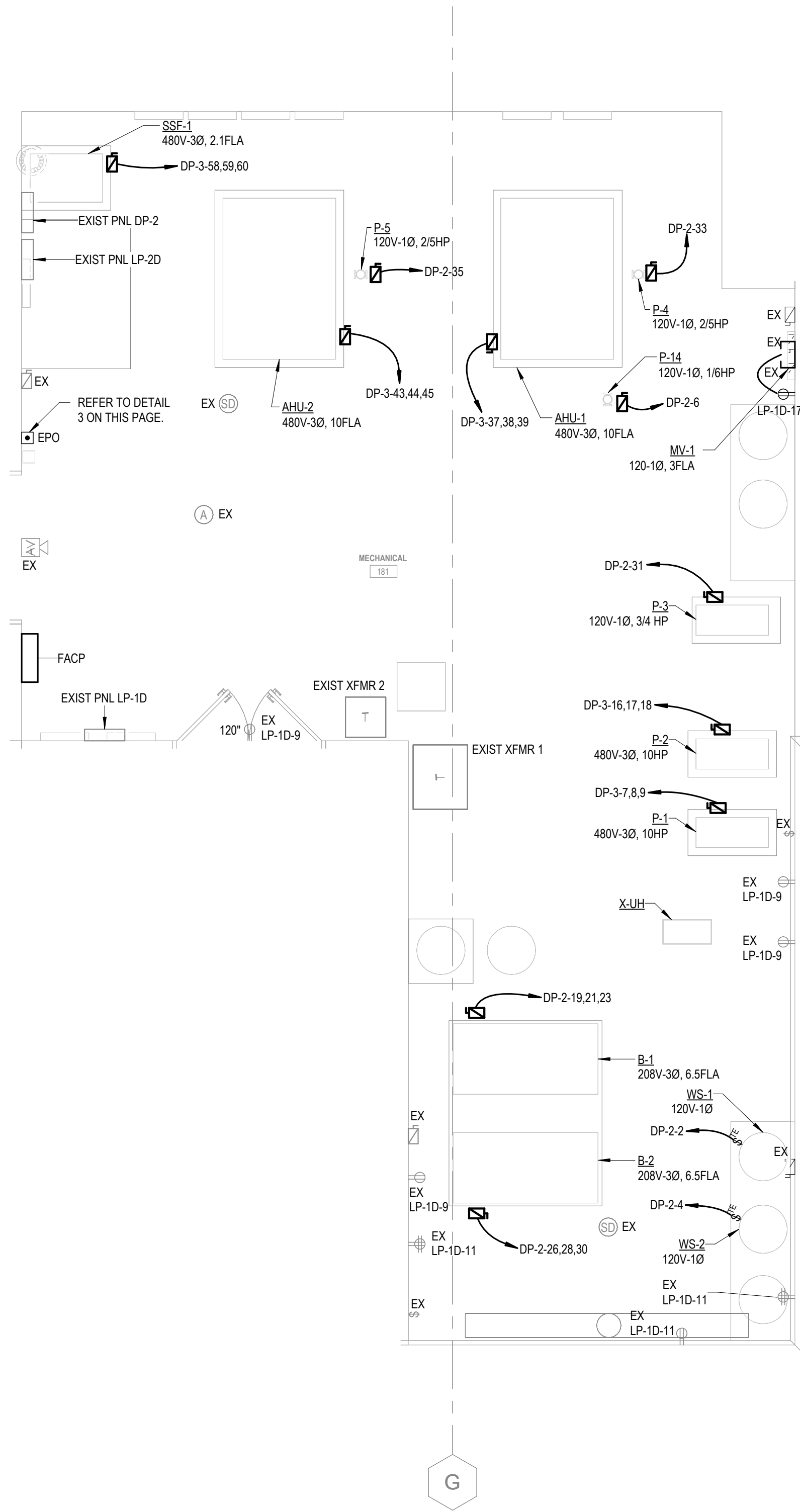


**MAIN LEVEL FLOOR PLAN - EAST - POWER
DEMO - ENLARGED**

1
E-700/ SCALE = 1/4" = 1'-0"

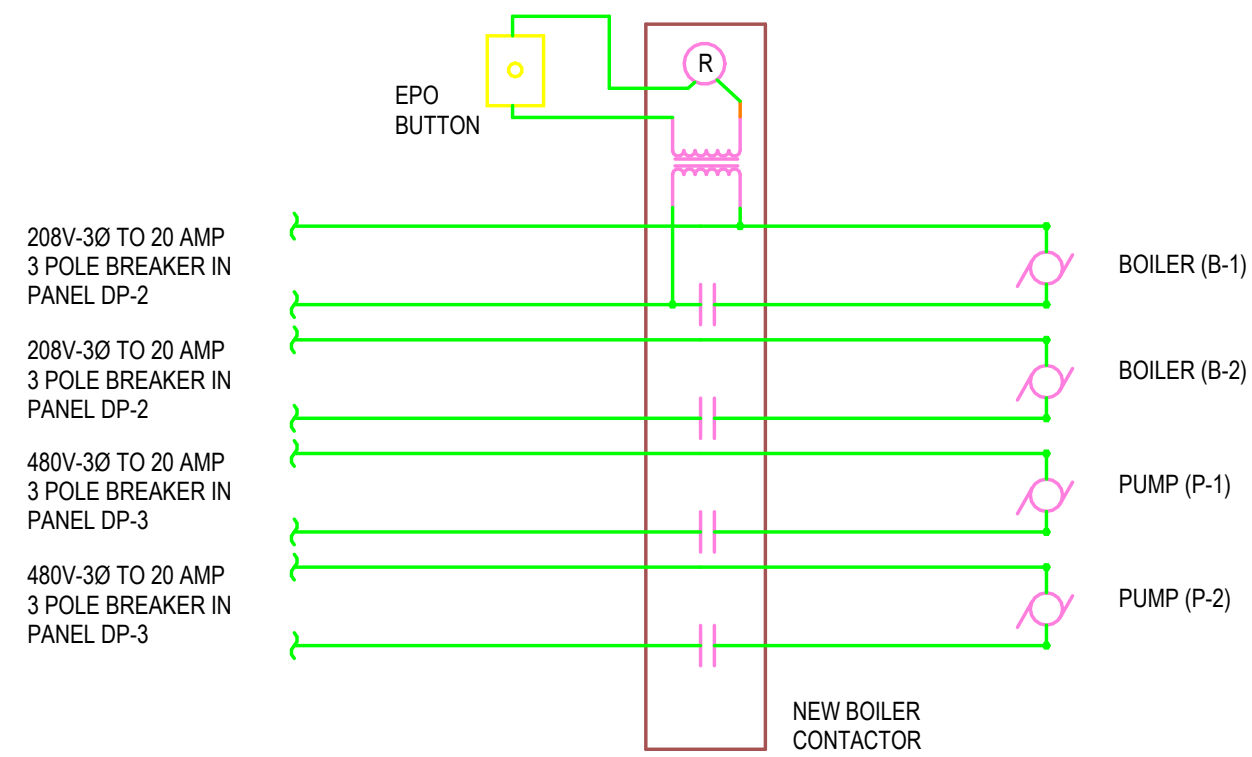
KEYNOTES:

- 1 SEE DETAIL 1, 2, & 3 ON PAGE E-800 FOR RECEPTACLE CONTROL. FOR GENERAL POWER IN ALL PRIVATE OFFICES, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR PRINTING AND/OR COPYING FUNCTIONS, BREAK ROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS.



**MAIN LEVEL FLOOR PLAN - EAST - POWER NEW
- ENLARGED**

2
E-700/ SCALE = 1/4" = 1'-0"



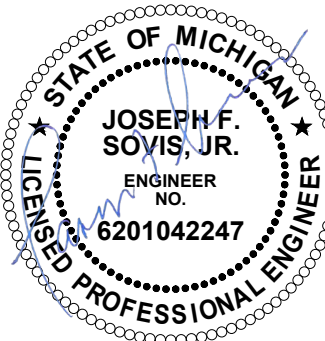
BOILER EMERGENCY OFF SWITCH
NOT TO SCALE



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SHEET TITLE: ELECTRICAL ENLARGED VIEWS

ISSUED FOR: PRELIMINARY ☐ 11/5/2025
CONSTRUCTION ☒
FINAL RECORD ☐

DESIGNED: BAE
DRAWN: BAE
CHECKED: JFS
APPROVED: JFS

DATE: 11/5/2025

PROJECT NO: 24886.00
FILE NO/INDEX CODE:

Jackson West Armory Renovations

2700 W. Argyle St., Jackson, MI 49202

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT, AND BUDGET
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APPROVED ALTERNATES:

1. HUBBELL
2. LUTRON
3. COOPER
4. LEVITON

BASIS OF DESIGN:

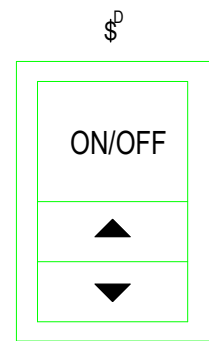
1. ACUITY NLIGHT.
2. PROVIDE WIRED BASED ON SPACE CONTROL SYSTEM.
3. PROVIDE WITH SINGLE COVERPLATE BASED UPON SWITCH CONFIGURATION AND EXISTING JUNCTION BOX SIZE.

SEQUENCE OF OPERATION:

1. ALL CONTROLS TO BE COMPLIANT WITH MICHIGAN ENERGY CODE, BASED UPON ASHRAE 90.1, 2019.
2. MANUAL ON, LOCAL DIMMING AND ON/OFF OVERRIDE, AUTOMATIC OFF.
3. PROVIDE SINGLE (1) COVERPLATE. SIZE BASED ON SWITCHES REQUIRED.
4. SEE PLANS FOR SPECIFIC QUANTITY AND LOCATION OF SWITCH TYPES.

5 DIMMER SWITCH
E-800 NOT TO SCALE

DESIGN OPTION



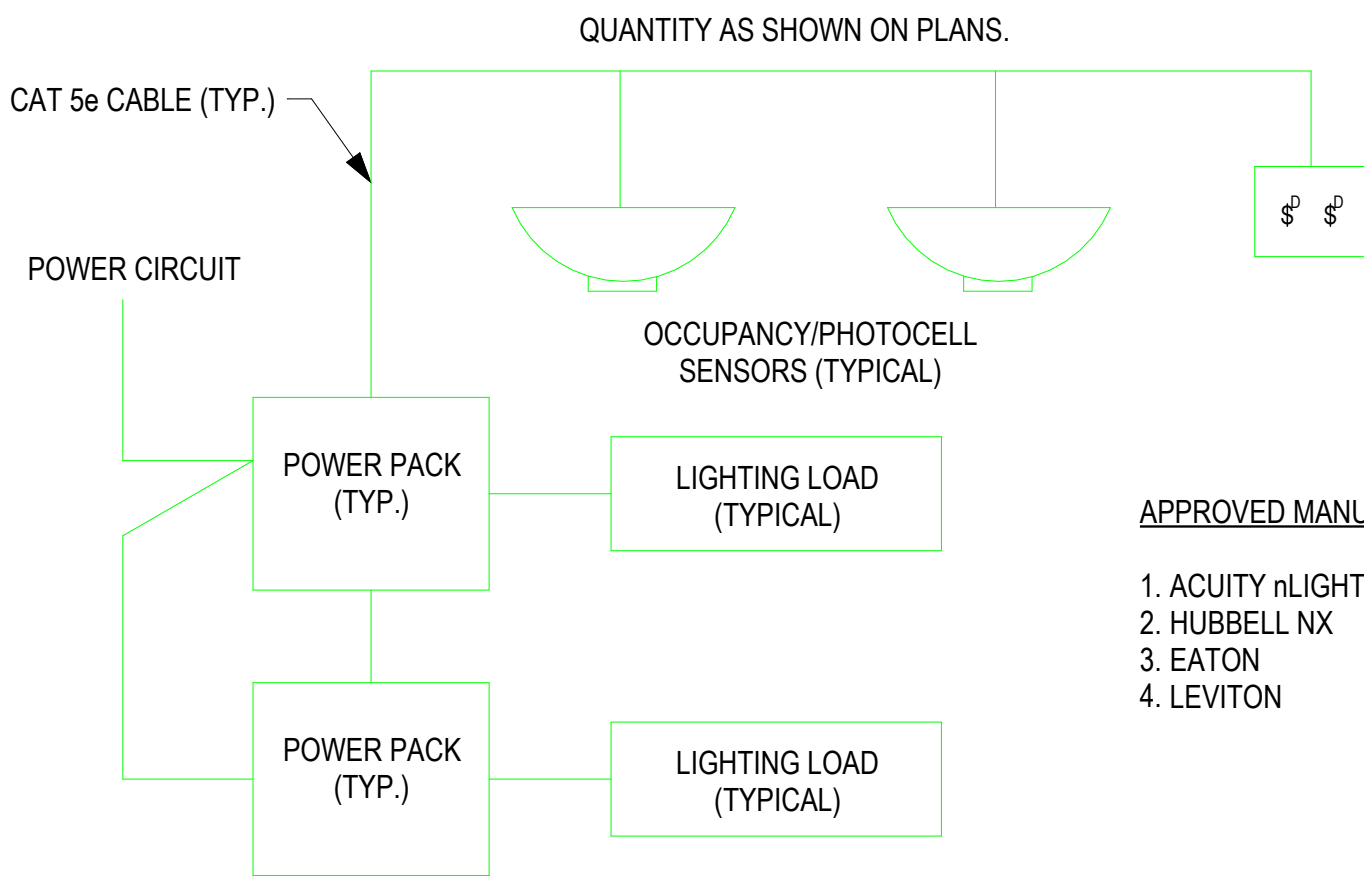
APPROVED MANUFACTURERS:

1. ACUITY nLIGHT
2. HUBBELL NX
3. EATON
4. LEVITON

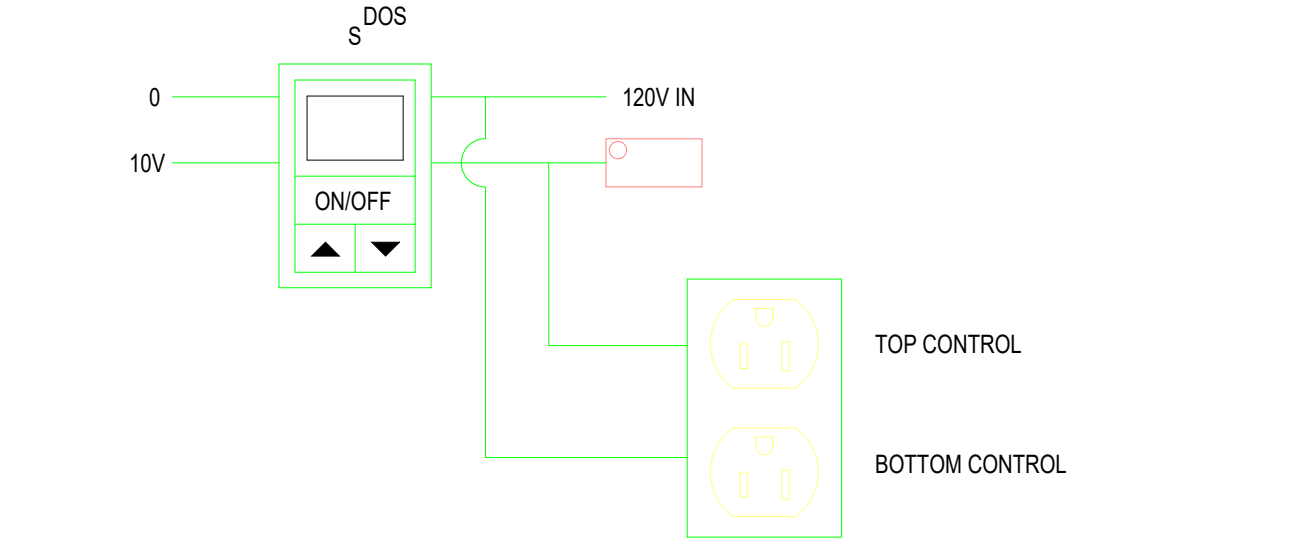
RECEPTACLE CONTROL SEQUENCE OF OPERATION:

1. ALL CONTROLS TO BE COMPLIANT WITH MICHIGAN ENERGY CODE, BASED UPON 90.1, 2019.
2. ALL CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED IN ACCORDANCE WITH NFPA 70.
3. CONTROLLED RECEPTACLE TO ACTIVATE UPON DETECTION OF OCCUPANCY.
4. CONTROLLED RECEPTACLE TO TURN OFF UPON ROOM VACANCY.

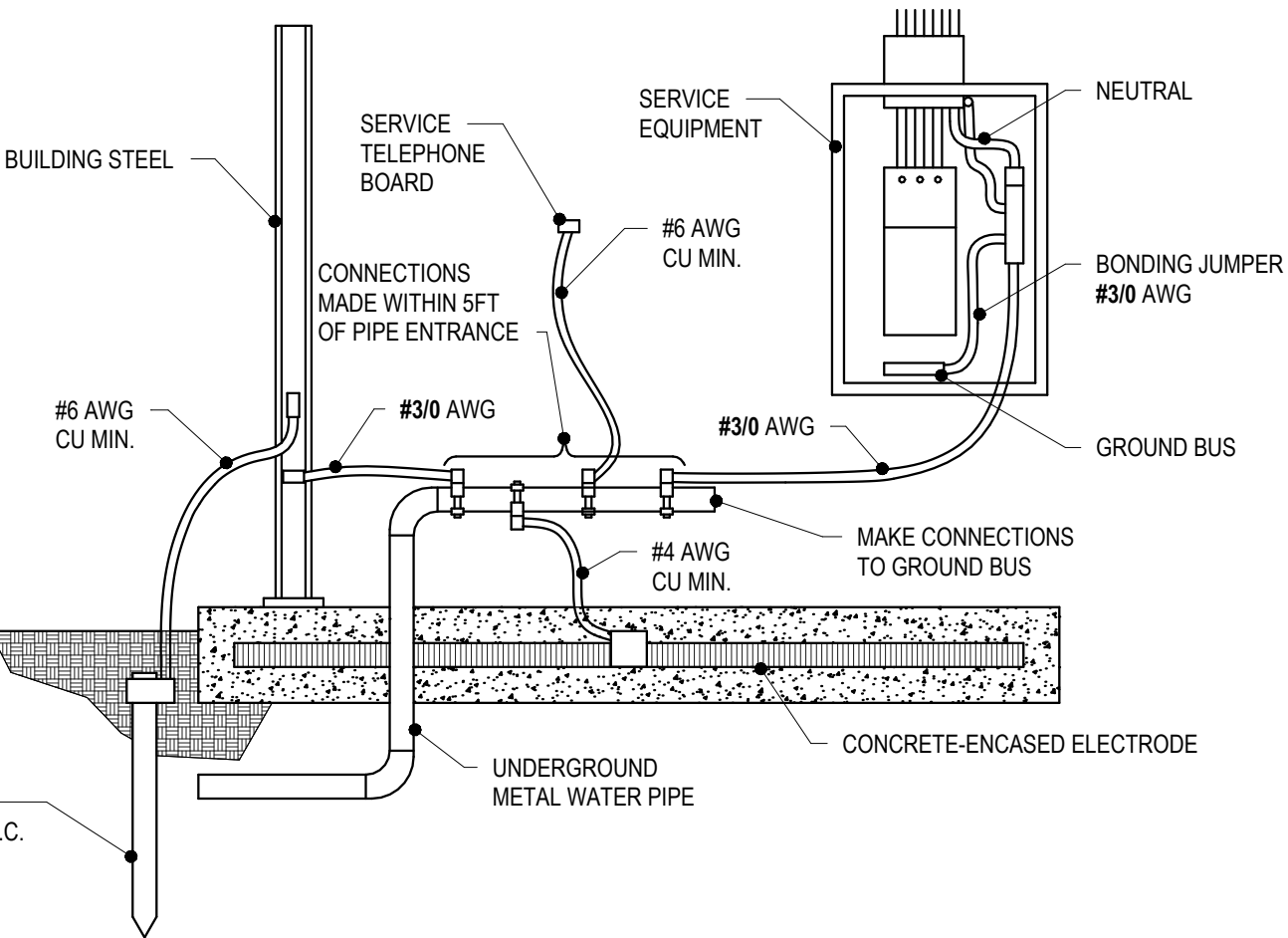
4 WIRED LIGHTING CONTROLS DETAIL
E-800 NOT TO SCALE



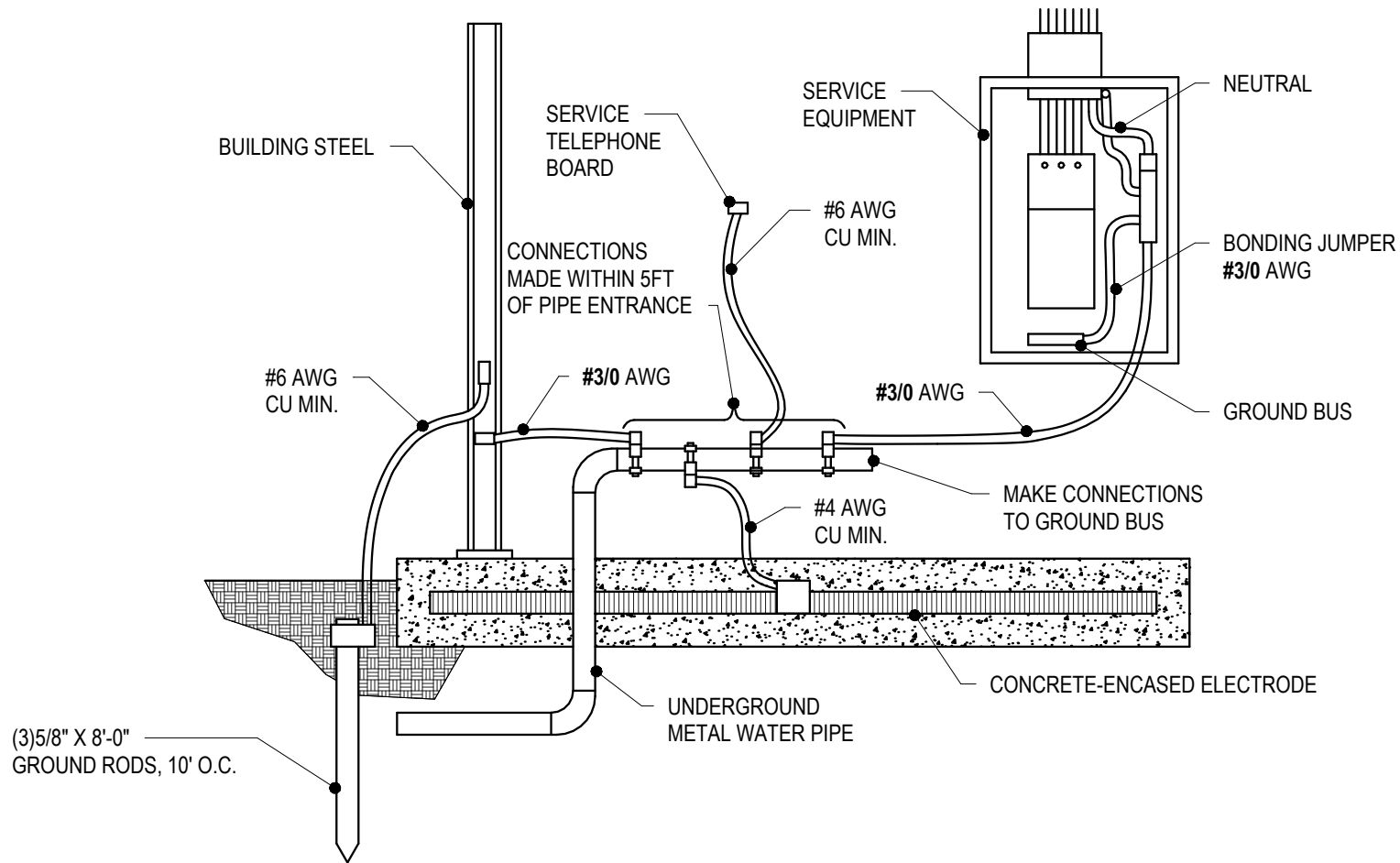
2 CEILING OCC SENSOR RECEPTACLE AND LIGHTING CONTROL
E-800 NOT TO SCALE



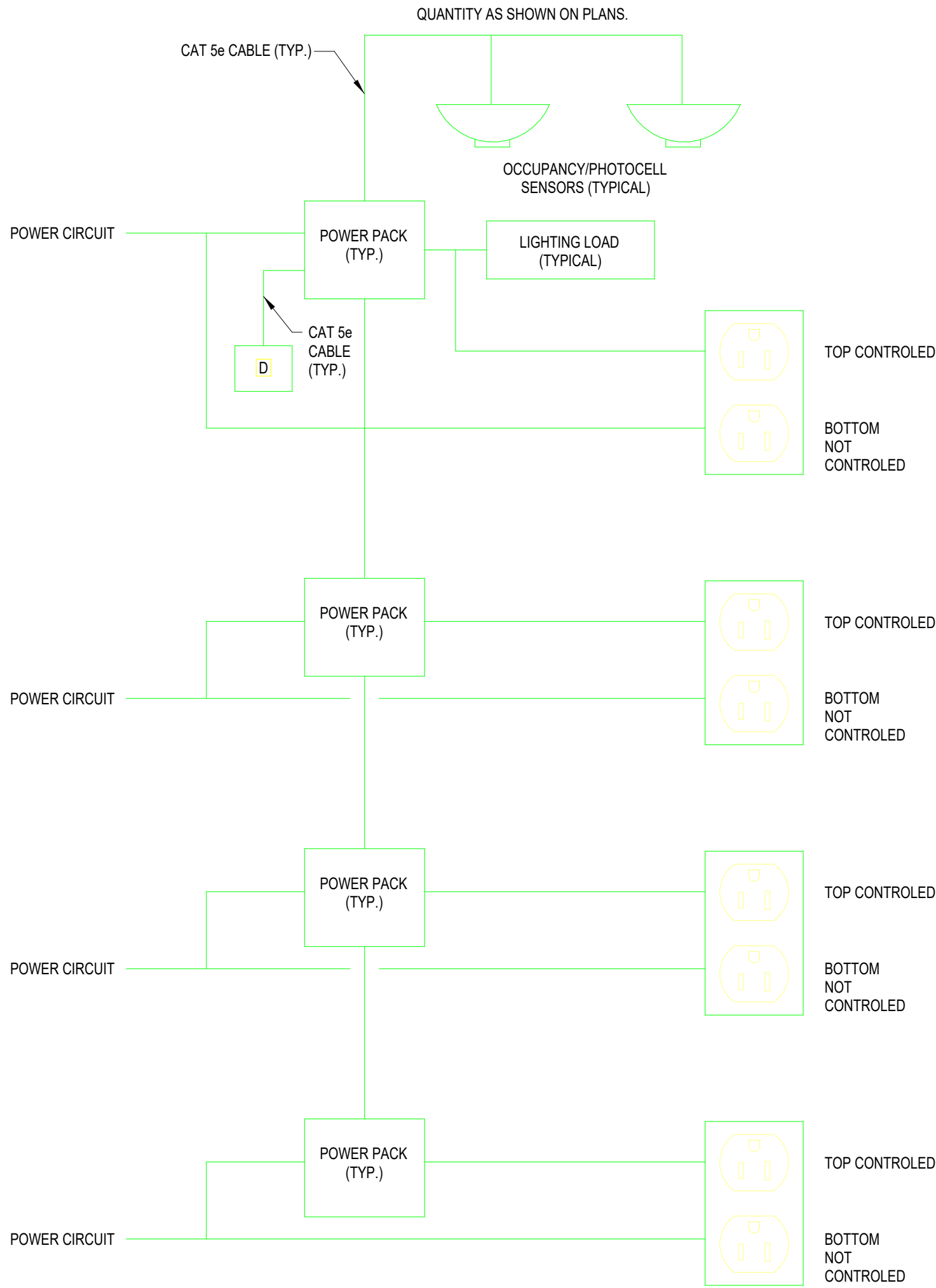
3 WALL OCC SENSOR RECEPTACLE AND LIGHTING CONTROL
E-800 NOT TO SCALE



8 GROUNDING AND BONDING DETAIL (TYPICAL)
E-800 NOT TO SCALE



1 SINGLE VOLTAGE, MULTI-CIRCUIT RECEPTACLE AND LIGHTING CONTROL
E-800 NOT TO SCALE



BASIS OF DESIGN:

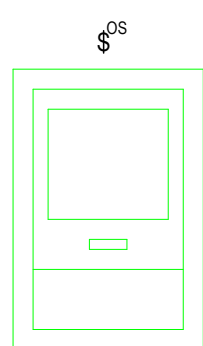
1. PROVIDE ACUITY #WSX-PDT

APPROVED ALTERNATES:

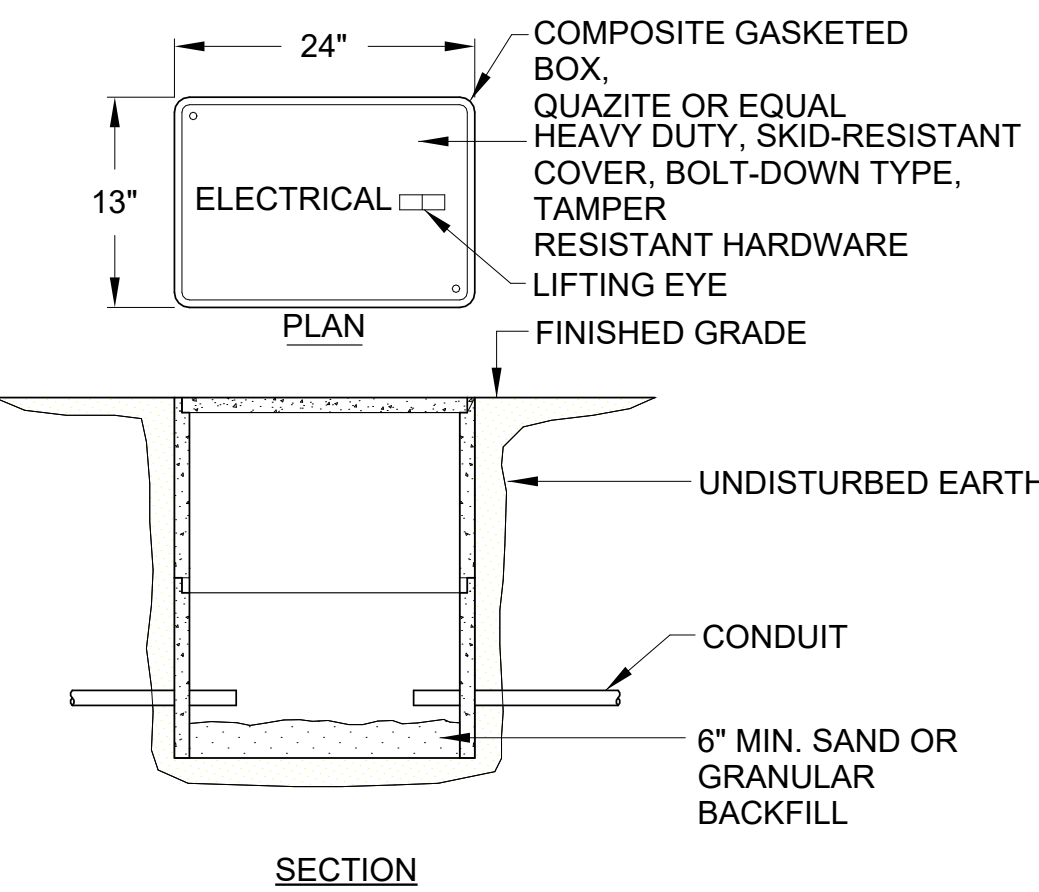
1. EATON
2. LEVITON
3. HUBBELL

SEQUENCE OF OPERATION:

1. ALL CONTROLS TO BE COMPLIANT WITH MICHIGAN ENERGY CODE, BASED UPON ASHRAE 90.1, 2019.
2. MANUAL ON, ON/OFF OVERRIDE, AUTOMATIC OFF.
3. TOILETS AND STORAGE CLOSETS SHALL BE AUTOMATIC ON/OFF.



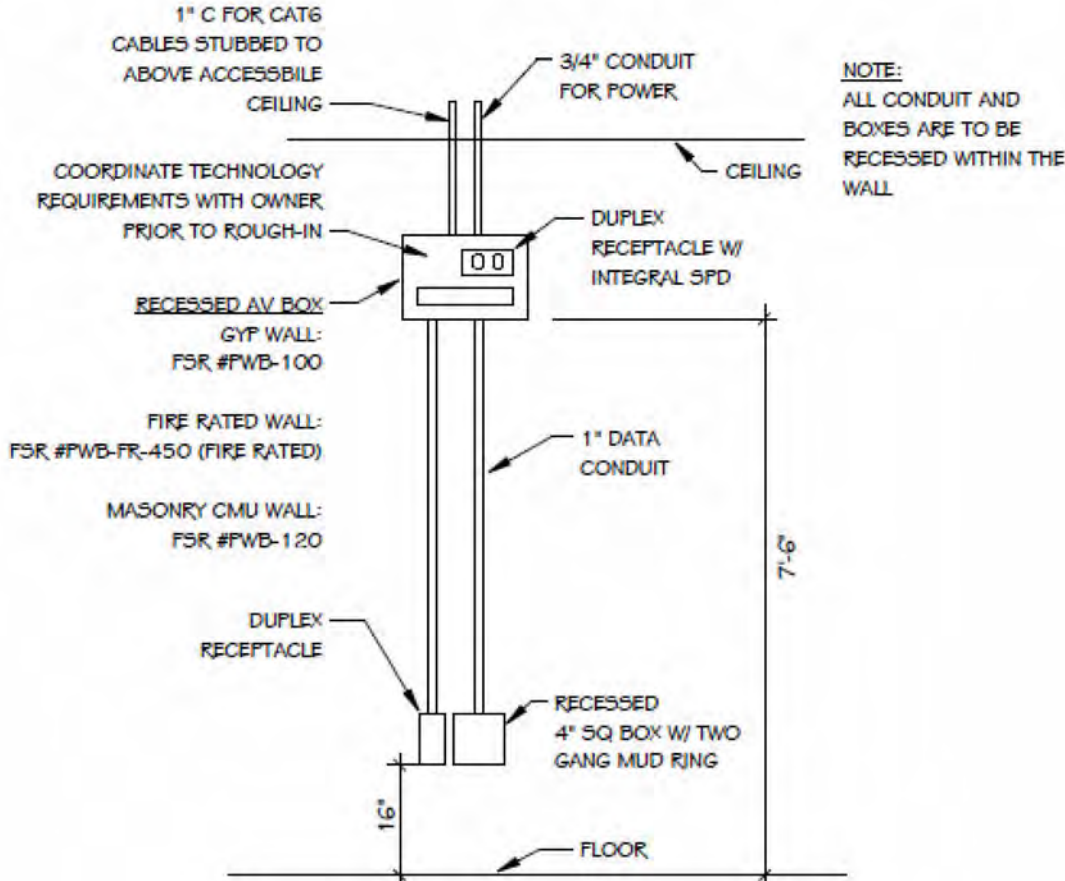
6 OCCUPANCY SENSOR STAND ALONE
E-800 NOT TO SCALE



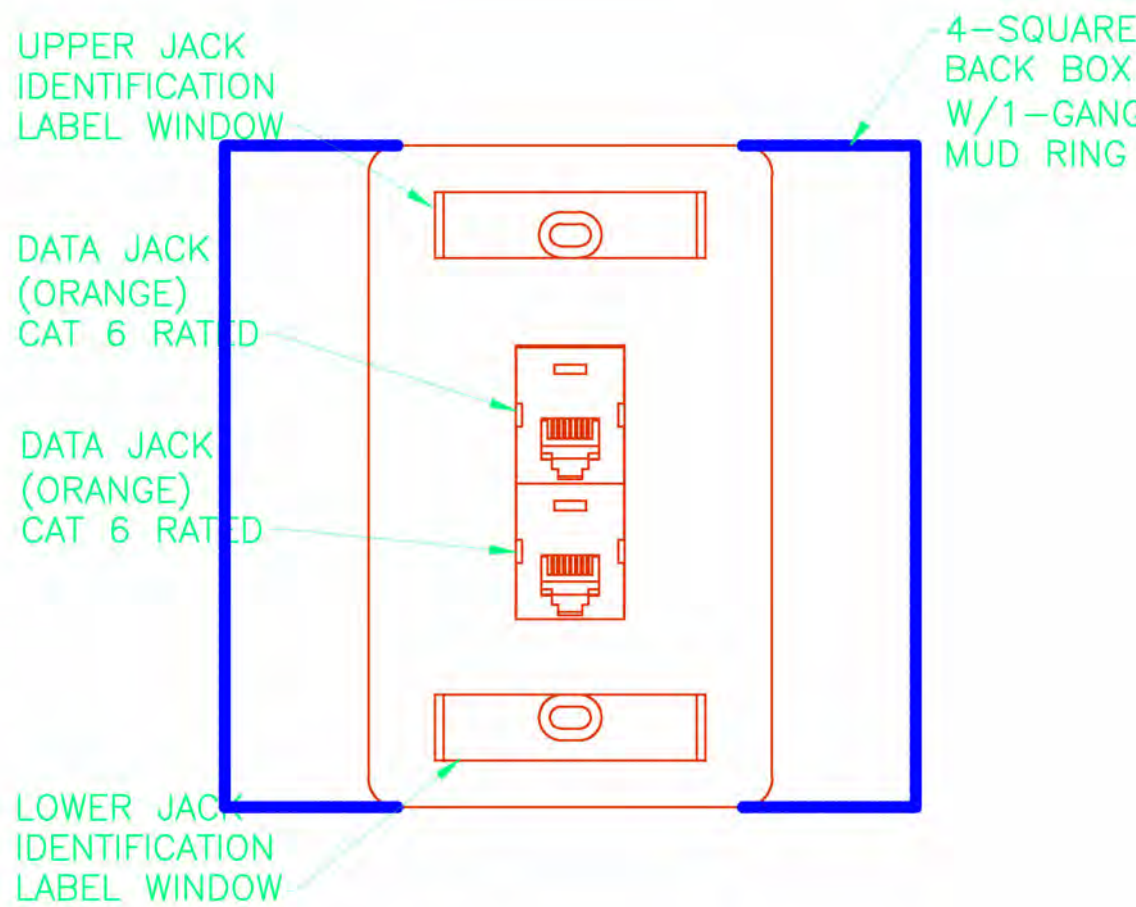
7 HAND HOLE
E-800 NOT TO SCALE



9 TV DETAIL
E-800 NOT TO SCALE



10 DATA FACE PLATE DETAIL
E-800 NOT TO SCALE

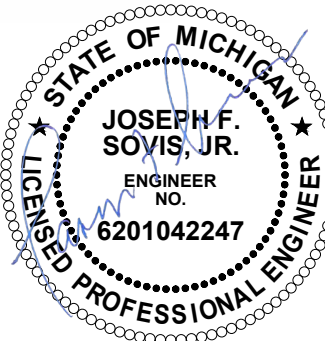


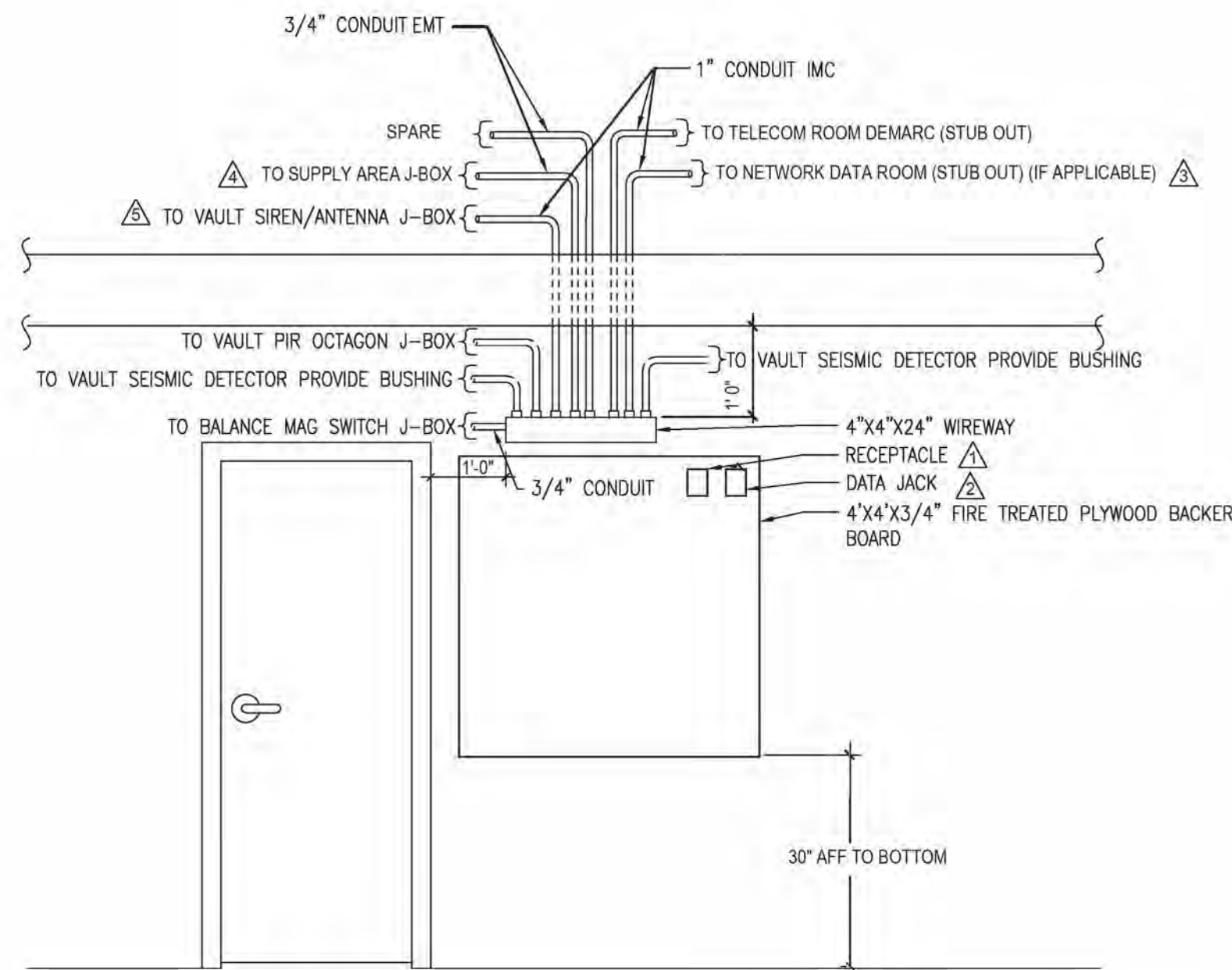
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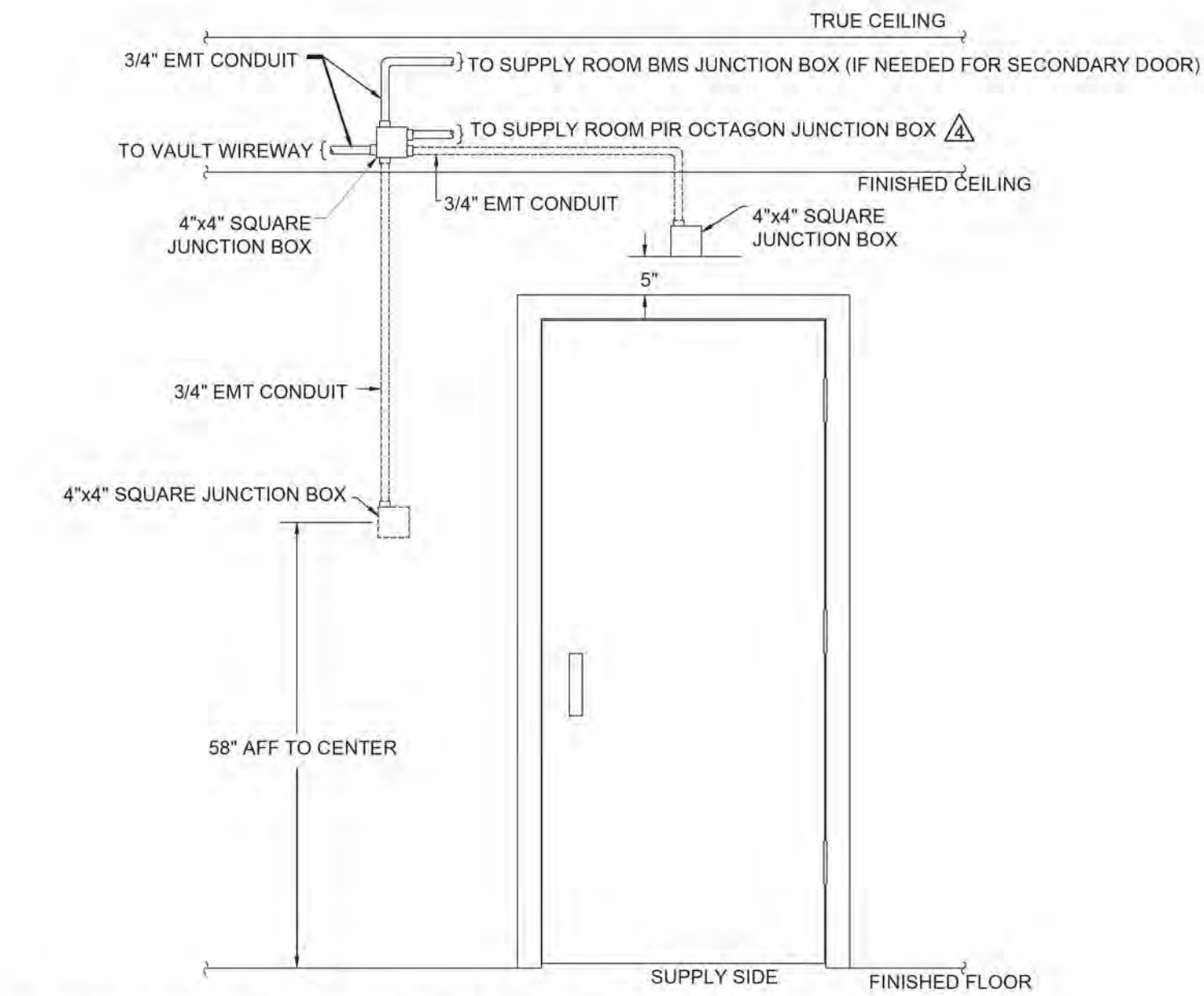
VAULT EQUIPMENT ARRANGEMENT AND ELEVATION (SECURE SIDE)

NOTES:

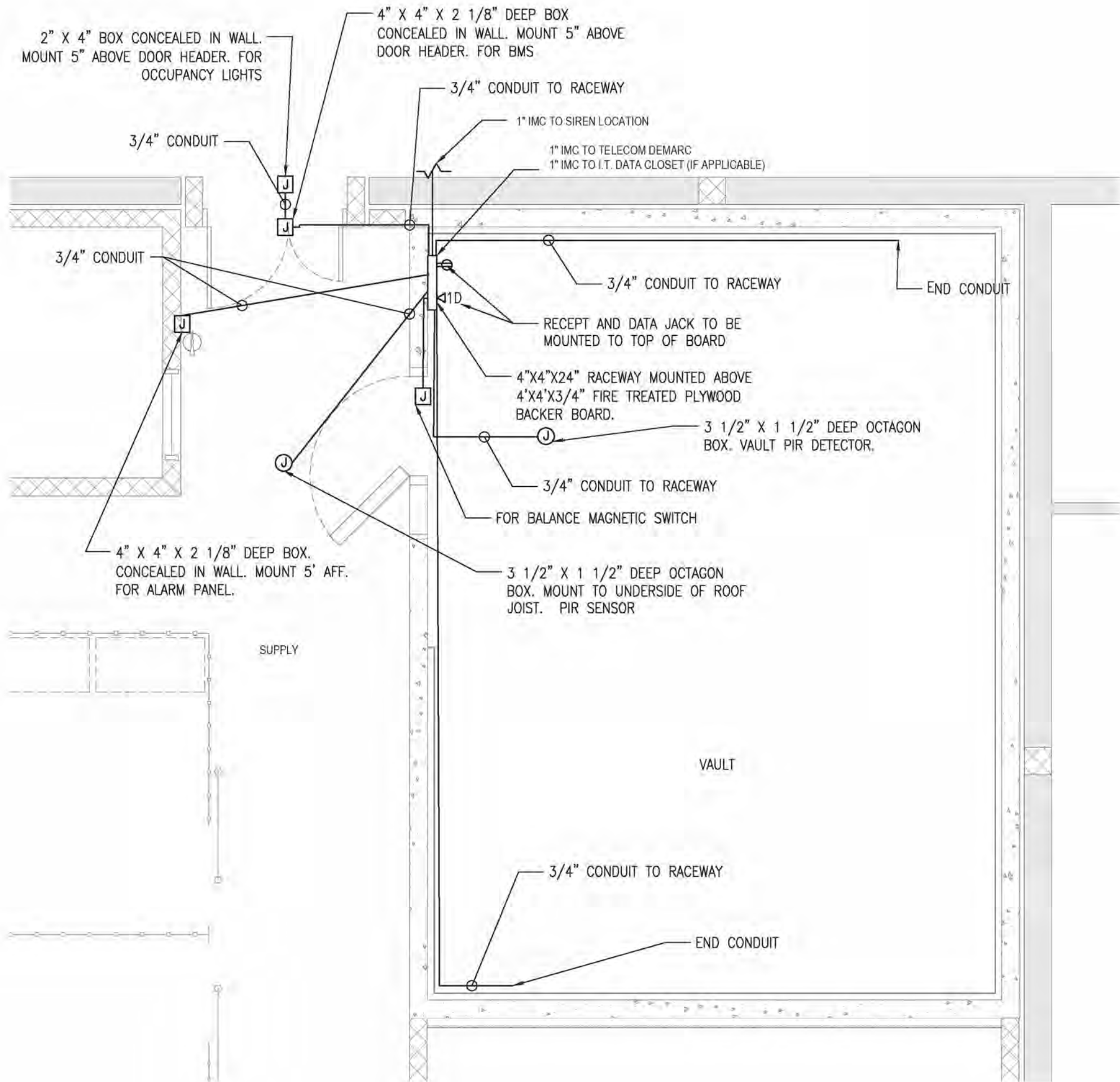
- A SECURITY DEVICES AND ASSOCIATED WIRING SHALL BE PROVIDED BY DMVA IDS PERSONNEL OR TECHNICIAN.
- B PROVIDE SECURITY SYSTEM CONDUIT, REACEWAYS, AND BUSHING TERMINATIONS AT APPROXIMATE LOCATIONS INDICATED. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH DMVA IDS PERSONNEL OR TECHNICIAN. TELECOMMUNICATIONS, POWER, AND OTHER SYSTEMS BY ELECTRICAL CONTRACTOR.
- CONDUIT SPECIFIC TO VAULT IDS
- C DATA TRANSMISSION LINES THAT ARE LOCATED INSIDE THE PROTECTED AREA SHALL BE INSTALLED IN ELECTRIC METAL TUBING (EMT). THE EMT COUPLING AND CONNECTORS WILL BE COMPRESSION TYPE.
- E WHEN DATA TRANSMISSION LINES EXIT THE PROTECTED AREA BUT ARE STILL LOCATED INTERIOR TO THE BUILDING, THEY SHALL BE ENCLOSED IN INTERMEDIATE METAL CONDUIT (IMC). THE IMC COUPLING AND CONNECTORS WILL BE THREADED TYPE.
- F WHEN TRANSMISSION LINES EXIT THE BUILDING, THEY WILL BE ENCLOSED IN RIGID METAL CONDUIT. THE RIGID COUPLING AND CONNECTORS WILL BE THREADED TYPE.

KEY NOTES:

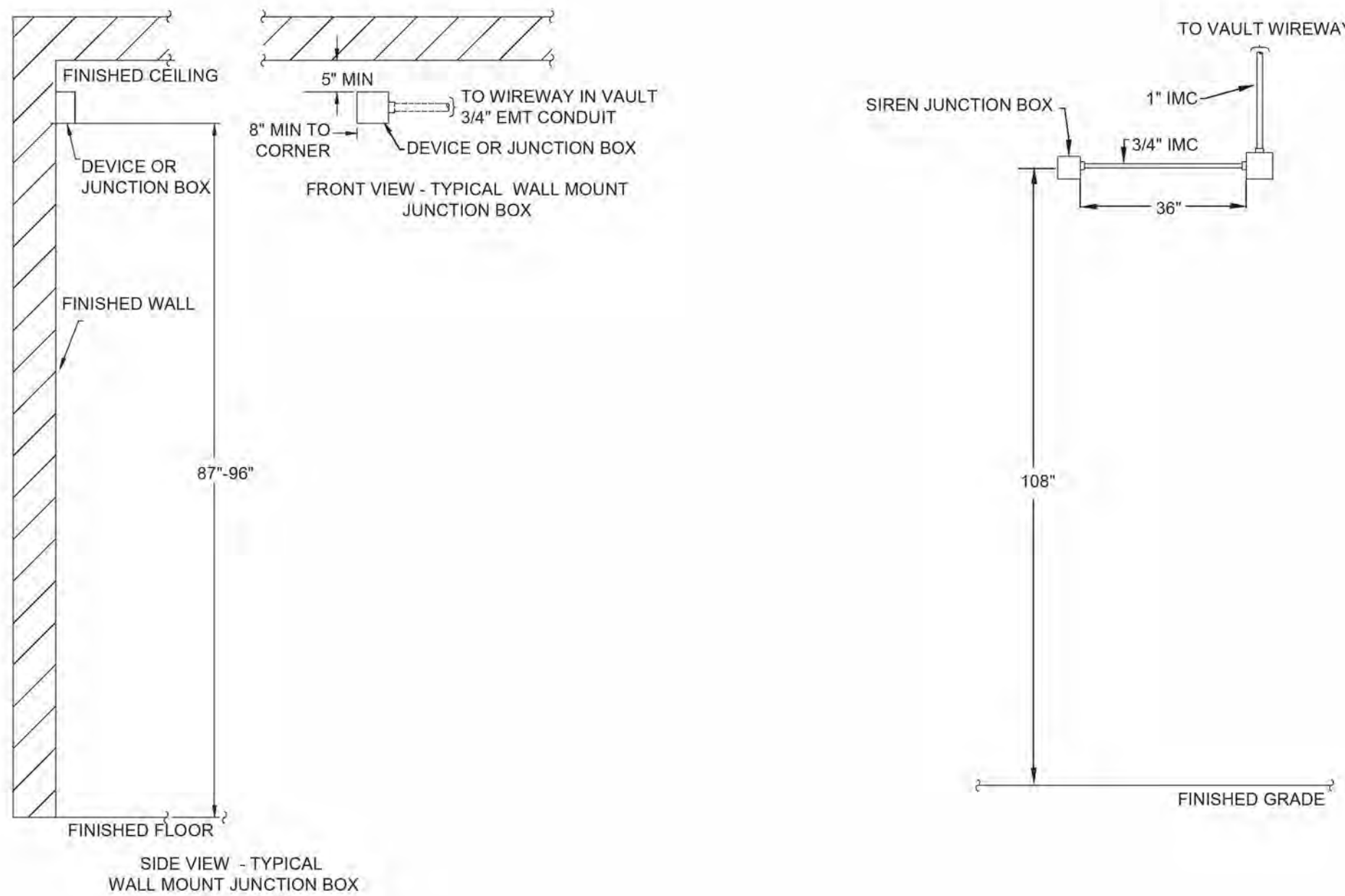
- △ DEDICATED 120 VAC/20A CIRCUIT CONNECTED TO EMERGENCY POWER CIRCUIT (IF AVAILABLE). AC POWER PROVIDED BY STATE. PRINT PANEL AND CIRCUIT BREAKER INFORMATION ON COVER.
- △ DATE JACK (GENERAL) SHALL NOT ROUTE THROUGH IDS WIREWAY.
- △ CONDUIT SHOULD ONLY BE ADDED IF DEMARK AND NETWORK SWITCH ARE NOT COLLOCATED.
- △ CONDUIT TO SUPPLY AREA JUNCTION BOX MAY ROUTE THROUGH MOTION/PROXIMITY SENSOR OCTAGON BOX LOCATED IN SUPPLY AREA TO REDUCE CONDUIT INFRASTRUCTURE
- △ CONDUIT TO SIREN / ANTENNA JUNCTION BOX ABOVE VAULT. PIPING TO CONTINUE TO SIREN LOCATION COORDINATED WITH DMVA IDS PERSONNEL OR TECHNICIAN.



SUPPLY EQUIPMENT ARRANGEMENT AND ELEVATION



TYPICAL VAULT LAYOUT OVERVIEW



1 VAULT DETAIL
E-801 NOT TO SCALE



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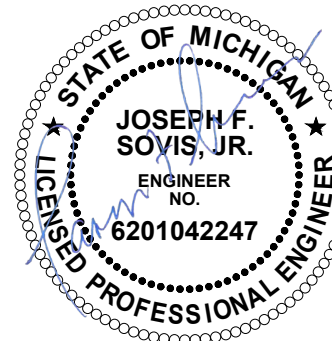


Jackson West Armory Renovations

2700 W. Argyle St., Jackson, MI 49202

SHEET TITLE: ELECTRICAL DETAILS

DESIGNED	DATE	ISSUED FOR:	PROJECT NO.	FILE NO./INDEX CODE:
BAE	11/15/2025	PRELIMINARY	24986.00	
DRAWN		CONSTRUCTION		
CHECKED		FINAL RECORD		
JFS				
JFS				



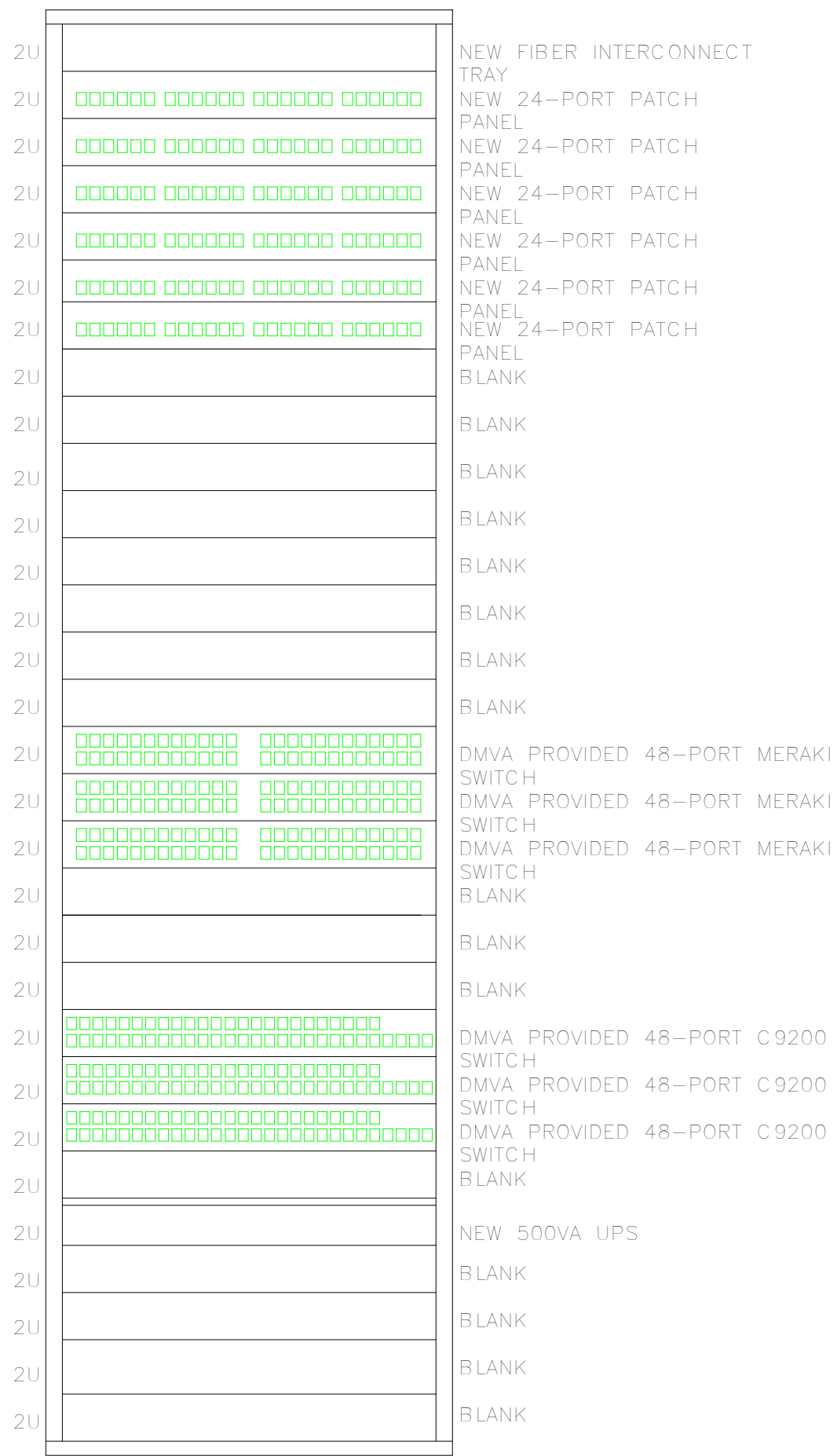
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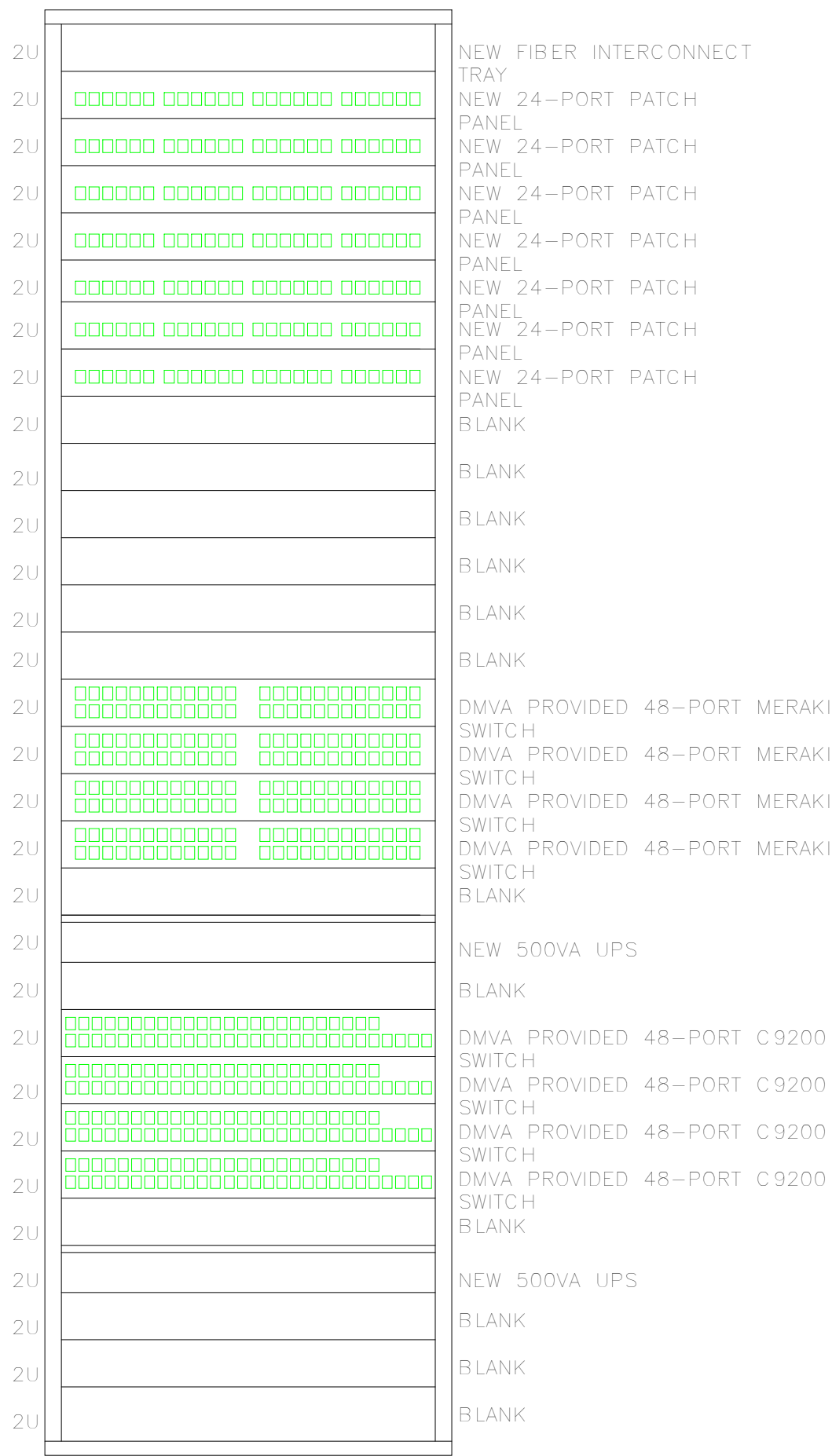


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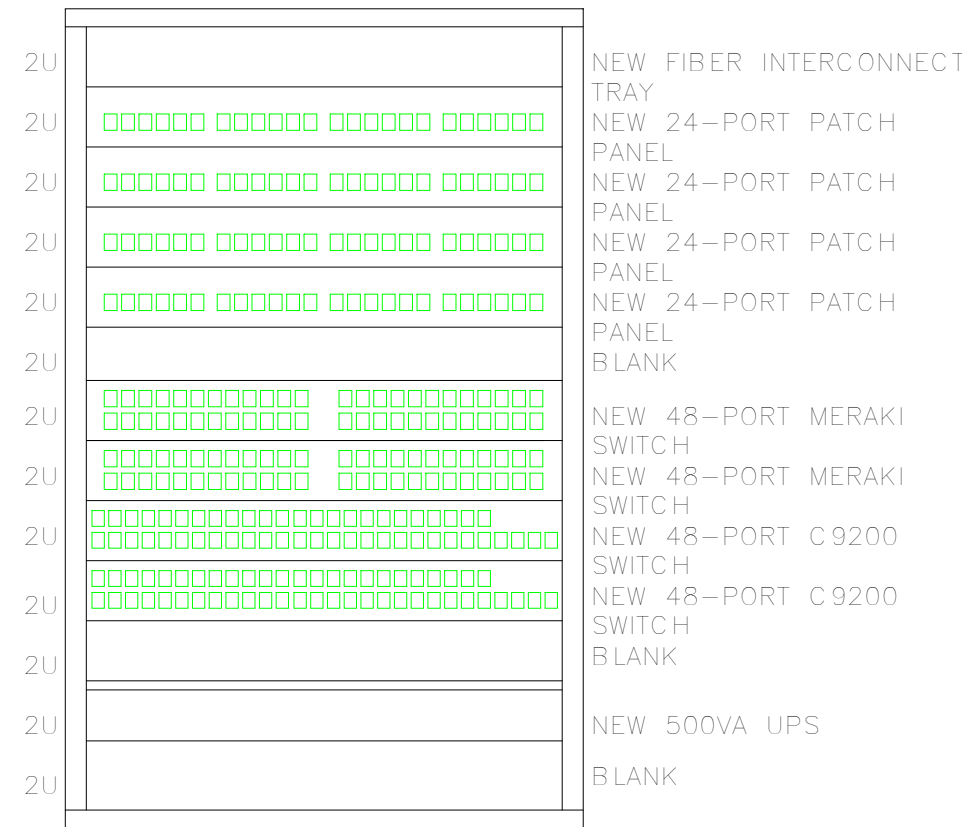
NEW DATA RACK RM 102
AREA B AND AREA A MAIN LEVEL



NEW DATA RACK RM 102
AREA A MAIN LEVEL

NOTES:

- 1) INSTALL TWO NEW DATA RACK PER SPECIFICATIONS HUBBELL SFR41924 IN RM 102. FLOOR MOUNT DATA RACK WITH TOP OF RACK NO HIGHER THAN 84" A.F.F.
- 2) INSTALL ONE 2" DIAMETER PLASTIC INNERDUCT STARTING 8'-0" A.F.F. IN RM 102 THEN ACROSS THE UNDERSIDE OF THE ROOF STRUCTURE WITH J-HOOKS TO A POINT ABOVE THE NEW DATA RACK IN RM. 171. ROUTE THE NEW FIBER OPTIC CABLE FROM THAT POINT DOWN TO THE NEW CABLE TRAY LEAVING A 25'-0" COIL OF CABLE ON BOTH ENDS, THEN DOWN TO THE NEW FIBER OPTIC CABLE INNERCONNECT TRAY AND TERMINATE FIBERS AND TEST PER SPECIFICATIONS.
- 3) PROVIDE AND INSTALL A 6'-0" OF BASKET CABLE TRAY 12" ABOVE THE NEW DATA RACK. SUPPORT IT WITH U-CHANNEL STEEL BOLTED TO THE WALL WITH ANGLE U-CHANNEL STEEL HOLDING THE STEEL COMING OUT AWAY FROM THE WALL.
- 4) SPLIT AND TERMINATE FIBERS WITH SC CONNECTORS AND TEST PER SPECIFICATIONS.
- 5) PROVIDE AND INSTALL 2 NEW HUBBLE FLOOR MOUNTED RACKS MODEL SFR41924.
- 6) PROVIDE AND INSTALL THIRTEEN 24-PORT PATCH PANELS WITHIN THE NEW DATA RACKS. ROUTE ALL NEW CAT-6 CABLES IN EMT TO THE POINT 12" ABOVE THE NEW BASKET CABLE TRAY. INSTALL A SERVICE LOOP OF CAT-6 CABLE PER SPECIFICATION IN THE CABLE TRAY. TERMINATE THE NEW CAT-6 CABLES TO THE PATCH PANEL AND TEST PER SPECIFICATION.
- 7) PROVIDE AND INSTALL 3 NEW UPS IN DATA RACKS.
- 8) HANG FIRE RATED PLYWOOD ON ALL WALLS ROOM 102. DO NOT PAINT
- 9) INSTALL ONE QUAD BOX AND GFI DUPLEX OUTLET PER NEW DATA RACK ON ITS OWN DEDICATED CIRCUIT.
- 10) ADD A GROUNDING BAR PER SPECIFICATION AND TIE INTO BUILDING GROUNDING SYSTEM.



DATA RACK RM 171
AREA C MAIN LEVEL AND LOWER LEVEL

NOTES:

- 1) INSTALL ONE NEW DATA RACK PER SPECIFICATIONS IN THE LOCATION INDICATED. MOUNT DATA RACK WITH TOP OF RACK NO HIGHER THAN 66" A.F.F.
- 2) INSTALL ONE 2" DIAMETER PLASTIC INNERDUCT STARTING 8'-0" A.F.F. IN RM 102 THEN ACROSS THE UNDERSIDE OF THE ROOF STRUCTURE WITH J-HOOKS TO A POINT ABOVE THE NEW DATA RACK IN RM. 171. ROUTE THE NEW FIBER OPTIC CABLE FROM THAT POINT DOWN TO THE NEW CABLE TRAY LEAVING A 25'-0" COIL OF CABLE ON BOTH ENDS, THEN DOWN TO THE NEW FIBER OPTIC CABLE INNERCONNECT TRAY AND TERMINATE FIBERS AND TEST PER SPECIFICATIONS.
- 3) PROVIDE AND INSTALL A 3'-6" OF BASKET CABLE TRAY 12" ABOVE THE NEW DATA RACK. SUPPORT IT WITH U-CHANNEL STEEL BOLTED TO THE WALL WITH ANGLE U-CHANNEL STEEL HOLDING THE STEEL COMING OUT AWAY FROM THE WALL.
- 4) SPLIT AND TERMINATE FIBERS WITH SC CONNECTORS AND TEST PER SPECIFICATIONS.
- 5) PROVIDE AND INSTALL 1 NEW HUBBLE LOCKABLE WALL MOUNTED RACK MODEL HSQ4826.
- 6) PROVIDE AND INSTALL FOUR 24-PORT PATCH PANELS WITHIN THE NEW DATA RACKS. ROUTE ALL NEW CAT-6 CABLES IN EMT TO THE POINT 12" ABOVE THE NEW BASKET CABLE TRAY. INSTALL A SERVICE LOOP OF CAT-6 CABLE PER SPECIFICATION IN THE CABLE TRAY. TERMINATE THE NEW CAT-6 CABLES TO THE PATCH PANEL AND TEST PER SPECIFICATION.
- 7) PROVIDE AND INSTALL 1 NEW UPS IN DATA RACK.
- 8) HANG DATA RACK CABINET ON FIRE RATED PLYWOOD. DO NOT PAINT
- 9) INSTALL ONE QUAD BOX AND GFI DUPLEX OUT LET IN NEW DATA RACK ENCLOSER.
- 10) ADD A GROUNDING BAR PER SPECIFICATION AND TIE INTO BUILDING GROUNDING SYSTEM.



STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT, AND BUDGET
FACILITIES AND BUSINESS SERVICES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM P. LARCH, R.A., DIRECTOR



Jackson West Armory Renovations

2700 W. Argyle St., Jackson, MI 49202

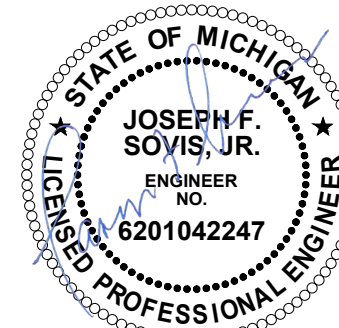
SHEET TITLE: ELECTRICAL DETAILS

DESIGNED	BAE
DRAWN	BAE
CHECKED	JFS
APPROVED	JFS

DATE	ISSUED FOR:
11/5/2025	PRELIMINARY
	CONSTRUCTION
	FINAL RECORD

IDENTIFICATION NO:	PROJECT NO:
24886.00	24886.00

E-802



FOR SITE OWNED UTILITIES



Sidock Group, Inc.
ENGINEERS • ARCHITECTS • CONSULTANTS • PROJECT MANAGERS

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Switchboard: MDP

Location: ELECTRICAL 181A
Supply From: 500KVA XFMR
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 480/277
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 800 A
Buss Rating: 800 A
Neutral Buss: Yes
Ground Buss:

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	A	B	C	Remarks
1	PNL DP-3	3	600 A	600 A	13370...	12334...	11844...	
2	HVAC UNIT 1-2 COND. UNIT	3	400 A	200 A	0 VA	0 VA	0 VA	
3	XFMR 1 150 KVA	3	400 A	200 A	26135...	25267...	22516...	
4	SPARE	3	400 A	100 A	0 VA	0 VA	0 VA	
5	SPARE	3	400 A	100 A	0 VA	0 VA	0 VA	
6	SPARE	3	400 A	100 A	0 VA	0 VA	0 VA	
7	SPARE	3	400 A	100 A	0 VA	0 VA	0 VA	
8	HVAC 1	3	400 A	30 A	0 VA	0 VA	0 VA	
9	HVAC 2	3	400 A	30 A	0 VA	0 VA	0 VA	
10	SPARE	3	400 A	30 A	0 VA	0 VA	0 VA	
11	SPARE	3	400 A	30 A	0 VA	0 VA	0 VA	
12	SPARE	3	400 A	30 A	0 VA	0 VA	0 VA	
13	SPARE	3	400 A	30 A	0 VA	0 VA	0 VA	
Total Conn. Load:					449405 VA			
Total Amps:					541 A			

Legend:

Load Classification	Connected...	Demand Factor	Estimated...	Panel Totals
LTG	24963 VA	125.00%	31204 VA	Total Conn. Load: 449405 VA
Motor	303778 VA	103.08%	313120 VA	Total Est. Demand: 452657 VA
Other	85102 VA	100.00%	85102 VA	Total Conn. Current: 541 A
Power	900 VA	100.00%	900 VA	Total Est. Demand... 544 A
RECEPT	34662 VA	64.43%	22331 VA	

Notes:

Panel: DP-1

Location: HHC ADMIN RECRUIT 107
Supply From: XFMR 1
Mounting: RECESSED
Enclosure: TYPE 1
Series: PANELBOARD

Volts: 208Y/120 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42KAIC
Mains Type: MCB
Mains Rating: 400 A
Bus Rating: 400A
Neutral Buss: Yes
Ground Buss: Yes

Notes: CONTRACTOR SHALL FIELD VERIFY BREAKER DESIGNATIONS FOR DOWNSTREAM PANELS.

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT		
1	PNL LP-1A	100	3	8.95	9.32			3	100	PNL LP-1B	2	
3	--	--	--		9.73	10.06		--	--	--	4	
5	--	--	--				7.70	8.53	--	--	6	
7	PNL LP-1D	100	3	3.70	2.08			3	100	LP-1V	8	
9	--	--	--		2.58	1.42		--	--	--	10	
11	--	--	--				3.39	1.49	--	--	12	
13	SPARE	100	3	0.00	2.08			3	100	LP-2V	14	
15	--	--	--		0.00	1.49		--	--	--	16	
17	--	--	--				0.00	1.42	--	--	18	
19	SPARE	100	3	0.00	--			1	--	SPACE	20	
21	--	--	--		0.00	--		1	--	SPACE	22	
23	--	--	--				0.00	--	1	--	SPACE	24
25	SPACE	--	1	--	--			1	--	SPACE	26	
27	SPACE	--	1	--	--			1	--	SPACE	28	
29	SPACE	--	1	--	--			1	--	SPACE	30	
Total Load:				26 kW	25 kW	23 kW						
Total Amps:				221 A	214 A	188 A						

Load Classification

Connected Load	Demand Factor	Estimated Demand	Panel Totals
LTG	12394 VA	125.00%	15492 VA
Motor	5544 VA	105.30%	5838 VA
Other	51840 VA	100.00%	51840 VA
RECEPT	3960 VA	100.00%	3960 VA
Total Load: 73.92 kW			Demand Load: 77.31 kW
Connected Amps: 205 A			Demand Amps: 215 A

Notes:

Panel: DP-2

Location: MECHANICAL 181
Supply From: XFMR 2
Mounting: SURFACE
Enclosure: TYPE 1
Series: PANELBOARD

Volts: 208Y/120 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22KAIC
Mains Type: MCB
Mains Rating: 225 A
Bus Rating: 225 A
Neutral Buss: Yes
Ground Buss: Yes

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT		
1	PNL LP-2A	100	3	4.78	0.12			1	20	WS-1	2	
3	--	--	--		1.62	0.12		1	20	WS-2	4	
5	--	--	--				1.44	0.53	1	20	P-14	6
7	SPACE	--	1	--	0.00			3	100	SPARE	8	
9	SPACE	--	1	--		--	0.00	--	--	--	10	
11	SPACE	--	1	--		--	0.00	--	--	--	12	
13	PNL LP-2B	100	3	0.00	--			1	--	SPACE	14	
15	--	--	--		0.00	--		1	--	SPACE	16	
17	--	--	--				0.00	--	1	--	SPACE	18
19	B-1	20	3	0.78	0.00			3	20	SPARE	20	
21	--	--	--		0.78	0.00		--	--	--	22	
23	--	--	--				0.78	0.00	--	--	24	
25	SPARE	100	3	0.00	0.78			3	20	B-2	26	
27	--	--	--		0.00	0.78		--	--	--	28	
29	--	--	--				0.00	0.78	--	--	30	
31	P-3	20	1	1.66	0.00			3	100	SPARE	32	
33	P-4	20	1		0.96	0.00		--	--	--	34	
35	P-5	20	1			0.96	0.00	--	--	--	36	
37	PNL LP-2D	100	2	0.00	0.53			1	20	EF-1	38	
39	--	--	--		0.00	--		1	--	SPACE	40	
41	ROOFTOP RECEPT	20	1			0.72	--	1	--	SPACE	42	
Total Load:				9 kW	4 kW	5 kW						
Total Amps:				73 A	35 A	45 A						

Load Classification

Connected Load	Demand Factor	Estimated Demand	Panel Totals
LTG	2804 VA	125.00%	3505 VA
Motor	9550 VA	106.12%	10135 VA
Other	4680 VA	100.00%	4680 VA
RECEPT	360 VA	100.00%	360 VA
Total Load: 18.11 kW			Demand Load: 19.40 kW
Connected Amps: 50 A			Demand Amps: 54 A

Notes:

Distr. Panel: DP-3

Location: ELECTRICAL 181A
Supply From: MDP
Mounting: SURFACE
Enclosure: TYPE 1
Series: DISTRIBUTION...

Volts: 480/277
Phases: 3
Wires: 4

A.I.C. Rating: 65KAIC
Mains Type: MLO
Mains Rating: 600 A
MCB Rating: 600 A
Neutral Buss: Yes
Ground Buss: Yes

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C
1	PNL 4	200 A	3	51		
2	--	--	--		53	
3	--	--	--			54
4	XFMR 2	200 A	3	9		
5	--	--	--		4	
6	--	--	--			5
7	P-1	20 A	3	4		
8	--	--	--		4	
9	--	--	--			4
10	HVAC #11	60 A	3	0		
11	--	--	--		0	
12	--	--	--			0
13	REHEAT OIL	60 A	3	0		
14	--	--	--		0	
15	--	--	--			0
16	P-2	20 A	3	4		
17	--	--	--		4	
18	--	--	--			4
19	EXTERIOR BUILDING LIGHTS	20 A	1	1		
20	SPACE	--	1		--	
21	SPACE	--	1		--	
22	PARKING LOT LIGHTING	20 A	1	1		
23	SPACE	--	1		--	
24	SPACE	--	1		--	
25	PARKING LOT LIGHTING	20 A	1	2		
26	SPACE	--	1		--	
27	SPACE	--	1		--	
28	CIRC PUMP	30 A	3	0		
29	--	--	--		0	
30	--	--	--			0
31	EXOTOM & PREPAMETIC	30 A	3	0		
32	--	--	--		0	
33	--	--	--			0
34	EX RTU	30 A	3	3		
35	--	--	--		3	
36	--	--	--			3
37	AHU-1	20 A	3	3		
38	--	--	--		3	
39	--	--	--			3
40	HVAC #3	30 A	3	0		
41	--	--	--		0	
42	--	--	--			0
43	AHU-2	20 A	3	3		
44	--	--	--		3	
45	--	--	--			3
46	HVAC #6	30 A	3	0		
47	--	--	--		0	
48	--	--	--			0
49	S. LIEBERT	100 A	3	0		
50	--	--	--		0	
51	--	--	--			0
52	XFMR 7	100 A	3	27		
53	--	--	--		23	
54	--	--	--			18
55	ADD. TRANE	100 A	3	0		
56	--	--	--		0	
57	--	--	--			0
58	SSF-1	20 A	3	1		
59	--	--	--		1	
60	--	--	--			1
61	SPARE	100 A	3	0		
62	--	--	--		0	
63	--	--	--			0
64	XFMR 6	200 A	3	1		
65	--	--	--		1	
66	--	--	--			0
67	2-75 TRANSF	200 A	3	0		
68	--	--	--		0	
69	--	--	--			0
70	CU-1	60 A	3	12		
71	--	--	--		12	
72	--	--	--			12
73	CU-2	60 A	3	12		
74	--	--	--		12	
75	--	--	--			12
Total Load:				134 kVA	123 kVA	118 kVA
Total Amps:				485 A	448 A	428 A

Legend:

Load Classification	Connected Load	Demand...	Estimated Demand	Panel Totals
LTG	12570 VA	125.00%	15712 VA	
Motor	298234 VA	103.13%	307576 VA	Total Load: 375 kVA
Other	33262 VA	100.00%	33262 VA	Total Demand: 378 kVA
RECEPT	30702 VA	66.29%	20351 VA	Total Current: 452 A
				Current... 454 A

Notes:

KEYNOTES:
1 CONTRACTOR SHALL PROVIDE & INSTALL 20A-1P BREAKER IN EXISTING SPACE.

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT, AND BUDGET
FACILITIES AND BUSINESS SERVICES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM P. LARCH, R.A., DIRECTOR

Jackson West Armory Renovations
2700 W. Argyle St., Jackson, MI 49202

DESIGNED
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APPROVED
JFS

DATE
11/5/2025
ISSUED FOR:
PRELIMINARY
CONSTRUCTION
FINAL RECORD

SHEET
IDENTIFICATION NO:
PROJECT NO: 24886.00
FILE NO/INDEX CODE:
E-900

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STATE OF MICHIGAN
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FOR SITE OWNED UTILITIES
72 HOURS (3 WORKING DAYS)
BEFORE YOU DIG
CALL: MR. ZIMMERMAN
PH: (248) 606-8821
FACILITIES MANAGEMENT

Panel: 4

Location: MECH 021
Supply From: DP-3
Mounting: SURFACE
Enclosure: TYPE 1
Series: PANELBOARD

Volts: 480/277
Phases: 3
Wires: 4

A.I.C. Rating: 18kAIC
Mains Type: MLO
Mains Rating: 200 A
Bus Rating: 225 A
Neutral Buss: Yes
Ground Buss: Yes

Sub-Feed Lugs: No

Notes:
CIRCUITS SHOWN WITH AN ASTERIC *** IN THE DESCRIPTION SHALL BE GFCI TYPE CIRCUIT BREAKERS.

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	RTU-1	20	3	3.32	8.58		3	40	RTU-5	2
3	--	--	--		3.32	8.58	--	--	--	4
5	--	--	--			3.32	8.58	--	--	6
7	RTU-2	20	3	3.32	4.15		3	20	ERV-1	8
9	--	--	--		3.32	4.15	--	--	--	10
11	--	--	--			3.32	4.15	--	--	12
13	RTU-3	20	3	3.32	6.37		3	30	ERV-2	14
15	--	--	--		3.32	6.37	--	--	--	16
17	--	--	--			3.32	6.37	--	--	18
19	RTU-4	40	3	8.58	0.94		3	20	SE-1	20
21	--	--	--		8.58	0.94	--	--	--	22
23	--	--	--			8.58	0.94	--	--	24
25	XFMR 6	150	3	4.67	7.47		3	60	ELEVATOR	26
27	--	--	--		6.52	7.47	--	--	--	28
29	--	--	--			7.52	7.47	--	--	30
31	SPACE	--	1	--	--		1	--	SPACE	32
33	SPACE	--	1	--	--		1	--	SPACE	34
35	SPACE	--	1	--	--		1	--	SPACE	36
Total Load:				51 kW	53 kW	54 kW				
Total Amps:				183 A	191 A	194 A				
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals		
LTG		4854 VA		125.00%		6067 VA				
Motor		138179 VA		104.66%		144614 VA		Total Load: 156.88 kW		
Other		12410 VA		100.00%		12410 VA		Demand Load: 164.53 kW		
RECEPT		1440 VA		100.00%		1440 VA		Connected Amps: 189 A		
								Demand Amps: 198 A		
Notes:										

Panel: 4A

Location: MECH 021
Supply From: XFMR 5
Mounting: SURFACE
Enclosure: TYPE 1
Series: PANELBOARD

Volts: 208Y/120 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10kAIC
Mains Type: MCB
Mains Rating: 150 A
Bus Rating: 150 A
Neutral Buss: Yes
Ground Buss: Yes

Sub-Feed Lugs: No

Notes:
CIRCUITS SHOWN WITH AN ASTERIC *** IN THE DESCRIPTION SHALL BE GFCI TYPE CIRCUIT BREAKERS.

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	RM 010, 011, & 012 RECEPT	20	1	1.08	1.08		1	20	RM 010 RECEPT	2
3	RM 015 & 016 RECEPT	20	1		0.72	0.18	1	20	TREADMILL RECEPTACLE	4
5	RM 017 RECEPT	20	1			0.54	0.18	1	TREADMILL RECEPTACLE	6
7	TREADMILL RECEPTACLE	20	1	0.18	0.18		1	20	TREADMILL RECEPTACLE	8
9	TREADMILL RECEPTACLE	20	1		0.18	0.90	1	20	RM 022 & CORRIDOR RECEPT	10
11	TREADMILL RECEPTACLE	20	1			0.18	0.18	1	WOMENS LOCKER GFI	12
13	WOMENS BATH GFI	20	1	0.18	0.18		1	20	WOMENS LOCKER GFI	14
15	WOMENS BATH GFI	20	1		0.18	0.80	1	20	DRINKING FOUNTAIN*	16
17	MENS BATH GFI	20	1			0.18	2.22	1	RM 010 LIGHTING	18
19	MENS BATH GFI	20	1	0.18	1.25		1	20	MEN'S HAND DRYER*	20
21	RM 021 RECEPT	20	1		0.90	1.25	1	20	WOMEN'S HAND DRYER*	22
23	SOUTHWEST LIGHTING	20	1			1.01	1.62	1	NW & SE GROUND FLOOR LTS	24
25	MENS BATH GFI	20	1	0.18	0.18		1	20	WOMENS BATH GFI	26
27	SPARE	20	1		0.00	0.00	1	20	SPARE	28
29	SPARE	20	1			0.00	0.00	1	SPARE	30
31	SPARE	20	1	0.00	0.00		1	20	SPARE	32
33	SPARE	20	1		0.00	0.00	1	20	SPARE	34
35	SPARE	20	1			0.00	0.00	1	SPARE	36
37	SPARE	20	1	0.00	0.00		1	20	SPARE	38
39	SPARE	20	1		0.00	1.41	2	30	RM 021 208V RECEPT	40
41	SPACE	--	1			--	1.41	--	--	42
Total Load:				5 kW	7 kW	8 kW				
Total Amps:				39 A	57 A	65 A				
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals		
LTG		4854 VA		125.00%		6067 VA				
Other		12410 VA		100.00%		12410 VA		Total Load: 18.70 kW		
RECEPT		1440 VA		100.00%		1440 VA		Demand Load: 19.92 kW		
								Connected Amps: 52 A		
								Demand Amps: 55 A		
Notes:										

Panel: K

Location: STORAGE 012
Supply From: XFMR 7
Mounting: SURFACE
Enclosure: TYPE 1
Series: PANELBOARD

Volts: 208Y/120 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22kAIC
Mains Type: MCB
Mains Rating: 200 A
Bus Rating: 200 A
Neutral Buss: Yes
Ground Buss: Yes

Sub-Feed Lugs: No

Notes:
CIRCUITS SHOWN WITH AN ASTERIC *** IN THE DESCRIPTION SHALL BE GFCI TYPE CIRCUIT BREAKERS.

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	HOT WATER BOOSTER*	35	3	3.00	1.66		3	20	GARBAGE DISPOSAL	2
3	--	--	--		3.00	1.66	--	--	--	4
5	--	--	--			3.00	1.66	--	--	6
7	GARBAGE DISPOSAL*	20	3	1.66	0.83		1	20	REFRIGERATOR*	8
9	--	--	--		1.66	0.83	1	20	REFRIGERATOR*	10
11	--	--	--			1.66	0.81	2	ICE MAKER*	12
13	COFFEE MAKER*	35	1	3.35	0.81		--	--	--	14
15	DOUBLE CONVECTION OVEN*	20	1		0.92	0.48	1	20	GRIDDLE TOP*	16
17	COMMERCIAL GAS RANGE COMBO*	20	1			0.48	0.92	1	DOUBLE CONVECTION OVEN*	18
19	5 WELL WARMING STATION*	20	2	2.18	1.50		1	20	FOOD WARMING CABINET*	20
21	--	--	--		2.18	0.18	1	20	RM 013B GFI	22
23	RM 013A RECEPT	20	1			0.54	0.85	1	KITCHEN LIGHTING	24
25	HOOD MAU-1*	20	3	7.04	0.26		1	20	KEF-1*	26
27	--	--	--		7.04	--	1	--	SHUNT TRIP	28
29	--	--	--			7.04	0.60	1	HOOD GAS VALVE*	30
31	SHUNT TRIP	--	1	--	--		1	--	SHUNT TRIP	32
33	HOOD CONTROL PANEL*	20	1		0.48	0.10	1	20	HOOD LIGHTING*	34
35	SHUNT TRIP	--	1			--	--	1	SHUNT TRIP	36
37	DISHWASHER*	55	2	4.47	0.00		1	20	SPARE	38
39	--	--	--		4.47	0.00	1	20	SPARE	40
41	SPARE	20	1			0.00	0.00	1	SPARE	42
Total Load:				27 kW	23 kW	18 kW				
Total Amps:				230 A	199 A	146 A				
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals		
LTG		846 VA		125.00%		1057 VA				
Motor		21394 VA		124.69%		26676 VA		Total Load: 67.31 kW		
Other		16172 VA		100.00%		16172 VA		Demand Load: 63.36 kW		
RECEPT		28902 VA		67.30%		19451 VA		Connected Amps: 187 A		
								Demand Amps: 176 A		
Notes:										

Panel: 4C

Location: MECH 021
Supply From:
Mounting: SURFACE
Enclosure: TYPE 1
Series: PANELBOARD

Volts: 208Y/120 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10kAIC
Mains Type: MCB
Mains Rating: 125 A
Bus Rating: 125 A
Neutral Buss: Yes
Ground Buss: Yes

Sub-Feed Lugs: No

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	P-6	20	1	0.53	0.26		1	20	EF-2	2
3	P-7	20	1		0.53	0.26	1	20	EF-3	4
5	P-8	20	1			0.53	0.26	1	EF-5	6
7	ELEVATOR	20	1	0.60	0.18		1	20	ROOFTOP RECEPTACLE	8
9	EF-4	20	1		0.26	1.66	1	20	EF-7	10
11	HP-1/AC-1	25	2			1.83	0.00	1	SPARE	12
13	--	--	--	1.83	0.00		1	20	SPARE	14
15	SPARE	20	1		0.00	0.00	1	20	SPARE	16
17	SPARE	20	1			0.00	0.00	1	SPARE	18
19	SPARE	20	1	0.00	--		1	--	SPACE	20
21	SPARE	20	1		0.00	--	1	--	SPACE	22
23	SPARE	20	1			0.00	--	1	SPACE	24
25	SPACE	--	1	--	--		1	--	SPACE	26
27	SPACE	--	1		--	--	1	--	SPACE	28
29	SPACE	--	1			--	--	1	SPACE	30
Total Load:				3 kW	3 kW	3 kW				
Total Amps:				28 A	23 A	22 A				
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals		
Motor		8551 VA		110.70%		9466 VA				
								Total Load: 8.73 kW		
								Demand Load: 9.65 kW		
								Connected Amps: 24 A		
								Demand Amps: 27 A		
Notes:										

Panel: LP-2A

Location: CONFERENCE 141
Supply From: DP-2
Mounting: RECESSED
Enclosure: TYPE 1
Series: PANELBOARD

Volts: 208Y/120 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KAIC
Mains Type: MCB
Mains Rating: 100 A
Bus Rating: 100 A
Neutral Buss: Yes
Ground Buss: Yes

Sub-Feed Lugs: No

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CORRIDOR 174 & 178 RECEPT	20	1	0.90	1.08					1	20	RM 141 RECEPT	2
3	RM 141 RECEPT	20	1			1.08	0.54			1	20	RM 138 RECEPT	4
5	RM 139 & 140 RECEPT	20	1					0.72	0.72	1	20	RM 138 RECEPT	6
7	NORTHWEST LIGHTING	20	1	1.26	1.54					1	20	SOUTHWEST LIGHTING	8
9	SPARE	20	1			0.00	0.00			1	20	SPARE	10
11	SPARE	20	1					0.00	0.00	1	20	SPARE	12
13	SPARE	20	1	0.00	0.00					1	20	SPARE	14
15	SPARE	20	1			0.00	0.00			1	20	SPARE	16
17	SPARE	20	1					0.00	0.00	2	15	208V 1Ø NEW 1200 PRINTER GNT	18
19	SPARE	20	1	0.00	0.00					--	--	--	20
21	SPARE	20	1			0.00	0.00			2	40	SPARE	22
23	SPARE	20	1					0.00	0.00	--	--	--	24
25	SPARE	20	1	0.00	0.00					2	40	SPARE	26
27	SPARE	20	1			0.00	0.00			--	--	--	28
29	SPARE	20	1					0.00	0.00	1	20	SPARE	30
31	SPARE	50	3	0.00	--					1	--	SPACE	32
33	--	--	--			0.00	--			1	--	SPACE	34
35	--	--	--					0.00	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	0.00	1	15	SPACE	42
43	SPACE	--	1	--	--					1	--	SPACE	44
45	SPACE	--	1			--	--			1	--	SPACE	46
47	SPACE	--	1					--	--	1	--	SPACE	48
49	MAIN DISCONNECT	100	3	0.00									50
51	--	--	--			0.00							52
53	--	--	--					0.00					54
Total Load:				5 kW		2 kW		1 kW					
Total Amps:				40 A		14 A		12 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LTG	2804 VA	125.00%	3505 VA		
Other	4680 VA	100.00%	4680 VA	Total Load:	7.84 kW
RECEPT	360 VA	100.00%	360 VA	Demand Load:	8.55 kW
				Connected Amps:	22 A
				Demand Amps:	24 A

Notes:

Panel: LP-1A

Location: CORRIDOR 120
Supply From: DP-1
Mounting: RECESSED
Enclosure: TYPE 1
Series: PANELBOARD

Volts: 208Y/120 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KAIC
Mains Type: MCB
Mains Rating: 100 A
Bus Rating: 100 A
Neutral Buss: Yes
Ground Buss: Yes

Sub-Feed Legs: No

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RM 107 RECEPT	20	1	0.90	1.08					1	20	RM 109 & 134 RECEPT	2
3	RM 113 & 115 RECEPT	20	1			1.08	0.90			1	20	RM 117 RECEPT	4
5	RM 119 & 128 RECEPT	20	1					0.72	1.08	1	20	RM 124 & CORRIDOR RECEPT	6
7	RM 126 RECEPT	20	1	0.90	0.72					1	20	RM 122 RECEPT	8
9	RM 114 RECEPT	20	1			0.72	0.72			1	20	RM 122 RECEPT	10
11	RM 110 EAST RECEPT	20	1					1.08	0.90	1	20	RM 110 WEST RECEPT	12
13	RM 108 RECEPT	20	1	0.72	0.90					1	20	RM 112 & CORRIDOR RECEPT	14
15	MENS BATH GFI	20	1			0.36	0.90			1	20	RM 100, 101, & 102 RECEPT	16
17	MENS BATH GFI	20	1					0.36	0.36	1	20	WOMENS BATH RECEPT	18
19	DRINKING FOUNTIN GFI	20	1	0.80	0.36					1	20	WOMENS BATH RECEPT	20
21	SOUTHEAST CENTRAL OFFICES LTS	20	1			1.86	1.41			2	20	RM 102 208V RECEPT	22
23	OPEN WORK SPACE RECEPT	20	1					0.18	1.41	--	--	--	24
25	EAST LIGHTING	20	1	2.03	0.18					1	20	OPEN WORK SPACE RECEPT	26
27	OPEN WORK SPACE RECEPT	20	1			0.18	0.18			1	20	OPEN WORK SPACE RECEPT	28
29	OPEN WORK SPACE RECEPT	20	1					0.18	0.18	1	20	OPEN WORK SPACE RECEPT	30
31	OPEN WORK SPACE RECEPT	20	1	0.18	0.18					1	20	OPEN WORK SPACE RECEPT	32
33	OPEN WORK SPACE RECEPT	20	1			0.18	1.25			1	20	MENS BATH HAND DRYER	34
35	SPARE	20	1					0.00	1.25	1	20	WOMENS BATH HAND DRYER	36
37	SPARE	20	1	0.00	0.00					1	20	SPARE	38
39	SPARE	20	1			0.00	0.00			1	20	SPARE	40
41	SPARE	20	1					0.00	0.00	1	20	SPARE	42
43	SPACE	--	1	--	--					1	--	SPACE	44
45	SPACE	--	1			--	--			1	--	SPACE	46
47	SPACE	--	1					--	--	1	--	SPACE	48
49	MAIN BREAKER	100	3	0.00									50
51	--	--	--			0.00							52
53	--	--	--					0.00					54
		Total Load:		9 kW		10 kW		8 kW					
		Total Amps:		76 A		83 A		64 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LTG	3889 VA	125.00%	4862 VA	Total Load:	26.38 kW
Other	19250 VA	100.00%	19250 VA		Demand Load: 27.35 kW
RECEPT	3240 VA	100.00%	3240 VA		Connected Amps: 73 A
				Demand Amps: 76 A	

Notes:

Panel: LP-1B

Location: CORRIDOR 137
Supply From: DP-1
Mounting: RECESSED
Enclosure: TYPE 1
Series: PANELBOARD

Volts: 208Y/120 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KAIC
Mains Type: MCB
Mains Rating: 100 A
Bus Rating: 100 A
Neutral Buss: Yes
Ground Buss: Yes

Sub-Feed Lugs: No

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RM 111 RECEPT	20	1	1.26	0.36					1	20	RM 117 & 177A	2
3	RM 125 RECEPT	20	1			0.72	0.36			1	20	RM 123 RECEPT	4
5	RM 123 RECEPT	20	1					1.08	0.90	1	20	RM 127 RECEPT	6
7	RM 129 RECEPT	20	1	1.08	1.08					1	20	RM 131, 123, & CORRIDOR RECEPT	8
9	RM 135 & 133 RECEPT	20	1			0.54	1.08			1	20	RM 131 RECEPT	10
11	RM 133 RECEPT	20	1					0.18	0.72	1	20	RM 132 RECEPT	12
13	RM 136 RECEPT	20	1	0.72	0.18					1	20	RM 133 REFRIGERATOR	14
15	RM 130 & CORRIDOR RECEPT	20	1			0.72	0.90			1	20	RM 101 RECEPT	16
17	RM 106 RECEPT	20	1					0.90	0.90	1	20	RM 148 RECEPT	18
19	RM 105 WEST RECEPT	20	1	0.90	0.18					1	20	RM 148 FLOOR RECEPT	20
21	CORRIDOR 177 RECEPT	20	1			1.08	1.08			1	20	RM 105 EAST RECEPT	22
23	RM 106 GFI	20	1					0.18	0.18	1	20	RM 106 GFI	24
25	RM 106 MICROWAVE GFI	20	1	1.00	1.20					1	20	RM 106 FRIDGE RECEPT	26
27	RM 106 VENDING	20	1			1.00	2.04			1	20	NORTHEAST LIGHTING	28
29	CENTRAL BATH & CORRIDOR LTS	20	1					1.76	1.55	1	20	RM 105 & LOBBY LIGHTING	30
31	RM 106 VENDING	20	1	1.00	0.18					1	20	PRINTER	32
33	SERVER 117A RECEPT	20	1			0.18	0.18			1	20	SERVER 117A RECEPT	34
35	SERVER 117A RECEPT	20	1					0.18	0.00	2	20	SPARE	36
37	SERVER 117A RECEPT	20	1	0.18	0.00					--	--	--	38
39	LACTATION 133 RECEPT	20	1			0.18	0.00			2	20	SPARE	40
41	SPARE	20	1					0.00	0.00	--	--	--	42
43	SPACE	--	1	--	--					1	--	SPACE	44
45	SPACE	--	1			--	--			1	--	SPACE	46
47	SPACE	--	1					--	--	1	--	SPACE	48
49	MAIN BREAKER	100	3	0.00									50
51	--	--	--			0.00							52
53	--	--	--					0.00					54
Total Load:				9 kW		10 kW		9 kW					
Total Amps:				79 A		85 A		71 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LTG	5347 VA	125.00%	6684 VA	Total Load:	27.91 kW
Other	21840 VA	100.00%	21840 VA		Demand Load: 29.24 kW
RECEPT	720 VA	100.00%	720 VA		Connected Amps: 77 A
				Demand Amps: 81 A	

Notes:

Panel: LP-1D

Location: MECHANICAL 181
Supply From: DP-1
Mounting: SURFACE
Enclosure: TYPE 1
Series: PANELBOARD

Volts: 208Y/120 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10KAIC
Mains Type: MCB
Mains Rating: 100 A
Bus Rating: 100 A
Neutral Buss: Yes
Ground Buss: Yes

Sub-Feed Lugs: No

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LTS BOILER AND ELECTRICAL ROOM	20	1	0.90	0.90					1	20	LTS DOCK	2
3	WATER SOFTENER	20	1				0.00			1	20	LTS. DOCK MERCURY VAPOR	4
5	UNIT HEATER	20	1					0.00	0.90	1	20	LTS DOCK	6
7	FOYER RM. 112 RECEP	20	1	0.00	0.00					1	20	LTS. DOCK - TRANE HTR	8
9	RM 181 RECEPT	20	1			0.72	0.00			1	20	LTS. DOCK	10
11	RM 181 RECEPT	20	1					0.90	0.00	2	30	208V SERVER RM.	12
13	EF-6	20	1	1.18	0.00					--	--	--	14
15	ENTRANCE LTS	20	1			0.45	0.00			2	30	208V SERVER RM	16
17	OTHER	20	1					0.18	0.00	--	--	--	18
19	RM 180 & OUTSIDE RECEPT	20	1	0.72	0.00					2	30	208V SERVER RM.	20
21	RM 180 208V RECEPT	20	2			1.41	0.00			--	--	--	22
23	--	--	--					1.41	0.00	2	30	208V SERVER RM.	24
25	UPS	20	1	0.00	0.00					--	--	--	26
27	LECO C/S	20	2			0.00	0.00			2	30	LECO N/O	28
29	--	--	--					0.00	0.00	--	--	--	30
31	SPARE	30	2	0.00	0.00					2	30	OUTSIDE LIGHTS	32
33	--	--	--			0.00	0.00			--	--	--	34
35	SPARE	30	2					0.00	0.00	2	30	SPARE	36
37	--	--	--	0.00	0.00					--	--	--	38
39	PARK LTS	20	2			0.00	0.00			2	60	TEMP RECEP	40
41	--	--	--					0.00	0.00	--	--	--	42
43	NEW FIRE ALARM PANEL	--	1	--	0.00					1	20	FAA LIGHT	44
45	SPACE	--	1			--	0.00			1	20	SPACE	46
47	SPACE	--	1					--	--	1	--	SPACE	48
49	MAIN DISCONNECT	100	3	0.00	--					1	--	SPACE	50
51	--	--	--			0.00	--			1	--	SPACE	52
53	--	--	--					0.00	--	1	--	SPACE	54
Total Load:				4 kW		3 kW		3 kW					
Total Amps:				32 A		21 A		29 A					
Load Classification				Connected Load		Demand Factor		Estimated Demand		Panel Totals			
LTG				3157 VA		125.00%		3946 VA					
Motor				1176 VA		125.00%		1470 VA		Total Load: 9.66 kW			
Other				5150 VA		100.00%		5150 VA		Demand Load: 10.75 kW			

Panel: LP-1V

Location: OFFICE 173A
 Supply From: DP-1
 Mounting: RECESSED
 Enclosure: TYPE 1
 Series: PANELBOARD

Volts: 208Y/120 Wye
 Phases: 3
 Wires: 4

A.I.C. Rating: 10kAIC
 Mains Type: MLO
 Mains Rating: 100 A
 Bus Rating: 100 A
 Neutral Buss: Yes
 Ground Buss: Yes

Sub-Feed Lugs: No

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RM 173A RECEPT	20	1	0.72	1.00					1	20	OTHER	2
3	UH-6	20	1			0.53	0.53			1	20	UH-5	4
5	UH-4	20	1					0.53	0.60	1	20	DEH-2	6
7	SUPPLY 173 RECEPTACLE	20	1	0.18	0.18					1	20	SUPPLY 173 RECEPTACLE	8
9	SUPPLY 173 RECEPTACLE	20	1			0.18	0.18			1	20	SUPPLY 173 RECEPTACLE	10
11	SUPPLY 173 RECEPTACLE	20	1					0.18	0.18	1	20	SUPPLY 173 RECEPTACLE	12
13	SPARE	20	1	0.00	0.00					1	20	SPARE	14
15	SPARE	20	1			0.00	0.00			1	20	SPARE	16
17	SPARE	20	1					0.00	0.00	1	20	SPARE	18
19	SPACE	--	1	--	--					1	--	SPACE	20
21	SPACE	--	1			--	--			1	--	SPACE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
Total Load:				2 kW		1 kW		1 kW					
Total Amps:				17 A		12 A		12 A					

Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor		2184 VA	106.87%	2334 VA		
Other		2800 VA	100.00%	2800 VA		
					Total Load:	4.98 kW
					Demand Load:	5.13 kW
					Connected Amps:	14 A
					Demand Amps:	14 A

Notes:

Panel: LP-2V

Location: OFFICE 175A

Supply From: DP-1

Mounting: RECESSED

Enclosure: TYPE 1

Series: PANELBOARD

Volts: 208Y/120 Wye

Phases: 3

Wires: 4

A.I.C. Rating: 10kAIC

Mains Type: MLO

Mains Rating: 100 A

Bus Rating: 100 A

Neutral Buss: Yes

Ground Buss: Yes

Sub-Feed Lugs: No

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RM 175A RECEPT	20	1	0.72	1.00					1	20	VAULT	2
3	DEH-1	20	1			0.60	0.53			1	20	UH-3	4
5	UH-2	20	1					0.53	0.53	1	20	UH-1	6
7	SUPPLY 175 RECEPTACLE	20	1	0.18	0.18					1	20	SUPPLY 175 RECEPTACLE	8
9	SUPPLY 175 RECEPTACLE	20	1			0.18	0.18			1	20	SUPPLY 175 RECEPTACLE	10
11	SUPPLY 175 RECEPTACLE	20	1					0.18	0.18	1	20	SUPPLY 175 RECEPTACLE	12
13	SPARE	20	1	0.00	0.00					1	20	SPARE	14
15	SPARE	20	1			0.00	0.00			1	20	SPARE	16
17	SPARE	20	1					0.00	0.00	1	20	SPARE	18
19	SPACE	--	1	--	--					1	--	SPACE	20
21	SPACE	--	1			--	--			1	--	SPACE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
Total Load:				2 kW		1 kW		1 kW					
Total Amps:				17 A		12 A		12 A					

Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor		2184 VA	106.87%	2334 VA		
Other		2800 VA	100.00%	2800 VA		
					Total Load:	4.98 kW
					Demand Load:	5.13 kW
					Connected Amps:	14 A
					Demand Amps:	14 A

Notes:



2700 W. Argyle St., Jackson, MI 49202

SHEET	IDENTIFICATION NO:
E-902	PROJECT NO: 24986.00
	FILE NO./INDEX CODE:

72 HOURS
(3 WORKING DAYS)
BEFORE YOU D
CALL: MR. ZIMMERMAN
PH: (248) 606-8821
FACILITIES MANAGEMENT

Panel: LP-2D

Location: MECHANICAL 181

Supply From: DP-2

Mounting: SURFACE

Enclosure: TYPE 1

Series: PANELBOARD

Volts: 208/120 Single

Phases: 1

Wires: 3

A.I.C. Rating: 22kA/C

Mains Type: MCB

Mains Rating: 100 A

Bus Rating: 100

Neutral Buss: Yes

Ground Buss: Yes

Sub-Feed Lugs: No

Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	TELEPHONE	20	1	0.00	0.00			1	20	CLOCK	2
3	SPRINKLE ALRM + A.D.T CO	20	1			0.00	0.00	1	20	EXIT	4
5	TELEPHONE	30	1	0.00	0.00			1	20	DOOR DETECTION SYSTEM	6
7	ELECTRIC RM RECEP + BATT...	20	1			0.00	0.00	1	20	ELECTRIC DOOR LATCH & NIGHT...	8
9	JOHNSON'S AIR DRYER + BLCK...	20	1	0.00	0.00			1	20	BOILER ROOM LIGHTING	10
11	BOILER	20	1			0.00	0.00	1	20	UPS RECEP	12
13	JOHNSON CONTROL	20	1	0.00	0.00			1	20	NIGHT LIGHT	14
15	NIGHT LIGHTS	20	1			0.00	0.00	1	20	FIRE-CO2	16
17	SPARE	20	2	0.00	0.00			2	60	SPARE	18
19	--	--	--			0.00	0.00	--	--	--	20
Total Load:				0 kW		0 kW					
Total Amps:				0 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Load:	0.00 kW
				Demand Load:	0.00 kW
				Connected Amps:	0 A
				Demand Amps:	0 A

Notes:

Panel: LP-2B Location: CONFERENCE 141 Supply From: DP-2 Mounting: RECESSED Enclosure: TYPE 1 Series: PANELBOARD Volts: 208Y/120 Wye Phases: 3 Wires: 4 A.I.C. Rating: 22kA/C Mains Type: MCB Mains Rating: 225 A Bus Rating: 225 A Neutral Buss: Yes Ground Buss: Yes Sub-Feed Lugs: No													
Notes:													
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20	1	0.00	0.00					1	20	SPARE	2
3	SPARE	20	1			0.00	0.00			2	15	SI 208 1Ø	4
5	SPARE	20	1					0.00	0.00	--	--	--	6
7	PRINT 208 1Ø	20	2	0.00	0.00					1	20	FLOOR RECEP	8
9	--	--	--			0.00	0.00			1	20	LTS. THIS ROOM	10
11	SPARE	20	1					0.00	0.00	1	20	LTS. CONFERENCE RM.	12
13	SPARE	20	1	0.00	0.00					1	20	SPARE	14
15	SPARE	20	1			0.00	0.00			1	20	SPARE	16
17	SPARE	20	1					0.00	0.00	1	20	SPARE	18
19	SPACE	--	1	--	0.00					1	20	SPARE	20
21	SPACE	--	1			--	0.00			1	20	SPARE	22
23	SPACE	--	1					--	0.00	2	15	SPARE	24
25	SPACE	--	1	--	0.00					--	--	--	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1			--	--	--	--	1	--	SPACE	42
Total Load:				0 kW		0 kW		0 kW					
Total Amps:				0 A		0 A		0 A					
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
								Total Load: 0.00 kW					
								Demand Load: 0.00 kW					
								Connected Amps: 0 A					
								Demand Amps: 0 A					
Notes:													

LIGHT FIXTURE SCHEDULE							
ID	MANUFACTURER	MODEL NO.	VOLTAGE	REQUIRED LAMPS		DESCRIPTION	NOTES
				WATT	TYPE		
FAA	OBSTRUCTION LIGHTS	FL-810LNV R AC S 34B		4 W	LED	FAA LIGHT, BOTTOM MOUNT.	
LA1	LITHONIA	STAK2X4 3000LM 80CRI COL MIN10 MVOLT	MVOLT	24 W	LED, 5000K, 3000LM	2X4' ARCH TROFFER,	
LA1EM	LITHONIA	STAK2X4 3000LM 80CRI COL MIN10 MVOLT E10W	MVOLT	24 W	LED, 5000K, 3000LM	2X4' ARCH TROFFER,	
LA2	LITHONIA	STAK2X4 5000LM 80CRI COL MIN10 MVOLT	MVOLT	42 W	LED, 5000K, 5000LM	2X4' ARCH TROFFER,	
LA2EM	LITHONIA	STAK2X4 5000LM 80CRI COL MIN10 MVOLT E10W	MVOLT	42 W	LED, 5000K, 5000LM	2X4' ARCH TROFFER,	
LA3	LITHONIA	STAK2X4 6000LM 80CRI COL MIN10 MVOLT	MVOLT	50 W	LED, 5000K, 6000LM	2X4' ARCH TROFFER,	
LA3EM	LITHONIA	STAK2X4 6000LM 80CRI COL MIN10 MVOLT E10W	MVOLT	50 W	LED, 5000K, 6000LM	2X4' ARCH TROFFER,	
LB1	LITHONIA	MLX L4 5000LM 80CRI 50K WGDLM MD MIN10 MVOLT	MVOLT	32 W	LED, 5000K, 5000LM	4' LINEAR PENDANT.	
LB1EM	LITHONIA	MLX L4 5000LM 80CRI 50K WGDLM MD MIN10 MVOLT E10W	MVOLT	32 W	LED, 5000K, 5000LM	4' LINEAR PENDANT.	
LB2	LITHONIA	MLX L4 10000LM 80CRI 50K WGDLM MD MIN10 MVOLT	MVOLT	67 W	LED, 5000K, 10000LM	4' LINEAR PENDANT.	
LB2EM	LITHONIA	MLX L4 10000LM 80CRI 50K WGDLM MD MIN10 MVOLT	MVOLT	67 W	LED, 5000K, 10000LM	4' LINEAR PENDANT.	
LC	FEELUX LIGHTING	NDF10-4000K-120V-C90	MVOLT	6 W	LED, 4000K, 400LM/FT	DISPLAY CASE LED STRIP. PROVIDE ALL NECESSARY PARTS AND FIELD VERIFY LENGTH.	
LD1	LITHONIA	CPANL 2X4 AL06 SWW7 M2 2X4SMKSH	MVOLT	36 W	LED, 5000K, 4000LM	SURFACE MOUNT LED 2X4.	
LD1EM	LITHONIA	CPANL 2X4 AL06 SWW7 M2 ILBLP CP10 HE SD A 2X4SMKSH	MVOLT	36 W	LED, 5000K, 4000LM	SURFACE MOUNT LED 2X4.	
LD2	LITHONIA	CPANL 2X4 AL06 SWW7 M2 2X4SMKSH	MVOLT	55 W	LED, 5000K, 6000LM	SURFACE MOUNT LED 2X4.	
LD2EM	LITHONIA	CPANL 2X4 AL06 SWW7 M2 ILBLP CP10 HE SD A 2X4SMKSH	MVOLT	55 W	LED, 5000K, 6000LM	SURFACE MOUNT LED 2X4.	
LE	GOTHAM	EV06SH 50/20 DFF SMO MVOLT EZ1	MVOLT	20 W	LED, 5000K, 2000LM, 90CRI, L70@60,000	6" DOWNLIGHT, WET RATED.	
LF	LITHONIA	HZL1D L24 1500LM FST MVOLT 50K 80CRI	MVOLT	17 W	LED, 5000K, 2100LM	LED VANITY LIGHT.	
LG	LITHONIA	STAK2X2 2000LM 80CRI COL MIN10 MVOLT	MVOLT	17 W	LED, 5000K, 2300LM	2X2' ARCH TROFFER.	
LGEM	LITHONIA	STAK2X2 2000LM 80CRI COL MIN10 MVOLT	MVOLT	17 W	LED, 5000K, 2300LM	2X2' ARCH TROFFER.	
LH	LITHONIA	RSX2 LED P1 50K R4 MVOLT DMG NLTAIR2PIRHN	MVOLT	71 W	LED, 5000K, 11100LM	LED SINGLE HEAD SITE LIGHTING, AFF 35'	
LI	LITHONIA	(2) RSX2 LED P1 50K R4 MVOLT DMG NLTAIR2PIRHN	MVOLT	71 W	LED, 5000K, 11100LM	LED DOUBLE HEAD @ 180° SITE LIGHTING, AFF 35'	
LJ	LITHONIA	WDGE3 LED P3 50K 80CRI R4 MVOLT SRM	MVOLT	71 W	LED, 5000K, 11100LM	LED WALL MOUNTED SITE LIGHTING, AFF 12'	
LK	HYDREL	SAF1 LED P1 80CRI 50K MVOLT 20DEG CWL KM	MVOLT	19 W	LED, 3500K, 2000LM	GROUND MOUNTED FLAG POLE LIGHT.	
XA	LITHONIA	EDG-1-R-EL-SD	120/277V	3 W	LED	LED EXIT SIGN.	
XA	LITHONIA	EDG-2-R-EL-SD	120/277V	3 W	LED	LED EXIT SIGN.	

Panel: UPS Location: MILITARY MAINTENANC... Supply From: Mounting: SURFACE Enclosure: TYPE 1 Series: PANELBOARD Volts: 208/120 Single Phases: 1 Wires: 3 A.I.C. Rating: 10kA/C Mains Type: MCB Mains Rating: 100 A Bus Rating: 100 A Neutral Buss: Yes Ground Buss: Yes Sub-Feed Lugs: No													
Notes:													
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	MAIN	100	2	0.00	0.00					2	30	208V RECEP	2
3	--	--	--			0.00	0.00			--	--	--	4
5	BENCH RECEP	20	1	0.00	0.00					2	30	208V RECEP	6
7	COMPUTER RECEP	20	1			0.00	0.00			--	--	--	8
9	COMPUTER RECEP	20	1	0.00	0.00					2	30	208 RECEP	10
11	COMPUTER RECEP	20	1			0.00	0.00			--	--	--	12
13	COMPUTER RECEP	20	1	0.00	0.00					2	30	208V RECEP	14
15	COMPUTER RECEP	20	1			0.00	0.00			--	--	--	16
17	COMPUTER RECEP	20	1	0.00	0.00					2	20	120V FOUR POST RACK	18
19	TEICO BOILER RM	20	1			0.00	0.00			--	--	--	20
21	SPARE	20	1	0.00	0.00					2	20	120V FOUR POST RACK	22
23	SPARE	20	1			0.00	0.00			--	--	--	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1	--	--	--	--			1	--	SPACE	28
29	SPACE	--	1	--	--					1	--	SPACE	30
31	SPACE	--	1	--	--	--	--			1	--	SPACE	32
33	SPACE	--	1	--	--					1	--	SPACE	34
35	SPACE	--	1	--	--	--	--			1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1	--	--	--	--			1	--	SPACE	40
41	SPACE	--	1	--	--					1	--	SPACE	42
Total Load:				0 kW		0 kW		0 kW					
Total Amps:				0 A		0 A		0 A					
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
								Total Load: 0.00 kW					
								Demand Load: 0.00 kW					
								Connected Amps: 0 A					
								Demand Amps: 0 A					
Notes:													

Panel: D Location: MILITARY MAINTENANC... Supply From: XFMR 6 Mounting: SURFACE Enclosure
