

NOTES

- A. LIGHT FIXTURES MUST COMPLY WITH FAR CLAUSE AND BUY AMERICAN ACT IN ORDER TO BE CONSIDERED EQUAL TO LIGHT FIXTURES LISTED IN "BASIS OF DESIGN".
- B. REFER TO DRAWINGS EL101 AND EL102 FOR LOCATIONS AND QUANTITY OF LIGHT FIXTURES.
- C. REFER TO DRAWING EL502 FOR LIGHT FIXTURE CUT SHEET INFORMATION.
- D. REFER TO POLE MOUNTING DETAIL 6/EL501 FOR ADDITIONAL INFORMATION.
- E. DIP SWITCH SETTINGS OF OCCUPANCY SENSORS SHALL BE PROGRAMMED TO OWNERS SATISFACTION PRIOR TO COMPLETION OF PROJECT.

LUMINAIRE SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LAMPS	INPUT WATTS	MOUNTING	VOLTAGE
A	STRIP LIGHT FIXTURE, 8'-0" IN LENGTH, LED LIGHT SOURCE, SPECIFICATION GRADE ONLY, CLASS II LED CONSTANT CURRENT LED DRIVER, 22 GAUGE COLR ROLLED STEEL HOUSING, PAINTED AFTER FABRICATION	WILLIAMS (BASIS OF DESIGN)	76-8-230-8-40-DRV-UNV	LED INCLUDED 23,028 LUMENS 40K 80 CRI	152.2	AIRCRAFT CABLE	UNIVERSAL
A1	STRIP LIGHT FIXTURE, 8'-0" IN LENGTH, LED LIGHT SOURCE, SPECIFICATION GRADE ONLY, CLASS II LED CONSTANT CURRENT LED DRIVER, 22 GAUGE COLR ROLLED STEEL HOUSING, PAINTED AFTER FABRICATION	WILLIAMS (BASIS OF DESIGN)	76-8-L64-40-DRV-UNV	LED INCLUDED 6,657 LUMENS 40K 80 CRI	45	SURFACE	UNIVERSAL
A2	STRIP LIGHT FIXTURE, 4'-0" IN LENGTH, LED LIGHT SOURCE, SPECIFICATION GRADE ONLY, CLASS II LED CONSTANT CURRENT LED DRIVER, 22 GAUGE COLR ROLLED STEEL HOUSING, PAINTED AFTER FABRICATION	WILLIAMS (BASIS OF DESIGN)	76-4-L32-8-40-DRV-UNV	LED INCLUDED 3,263 LUMENS 40K 80 CRI	21.3	SURFACE	UNIVERSAL
B	2 X 2 DIRECT / INDIRECT LIGHT FIXTURE, LED LIGHT SOURCE, HOUSING IS 20 GAUGE COLD ROLLED STEEL HOUSING, MYLAR INSERT IN CENTER BASKET, 1% DIMMING CAPABILITY, UNIVERSAL VOLTAGE	LITHONIA LIGHTING (BASIS OF DESIGN)	ZBLT2-33L-48LHE-ADP-MVOLT-GZ1-LP840	LED INCLUDED 4,800 LUMENS 40K 80 CRI	37.9	RECESSED LAY-IN	UNIVERSAL
D	DOWN LIGHT, 6-INCH DIAMETER REFLECTOR, CLEAR ALZAK FINISH, CLASS II CONSTANT CURRENT LED DRIVER DIE-CAST ALUMINUM TRIM HOUSING, OPEN REFLECTOR 20 GAUGE GALVANIZED STEEL MOUNTING PAN	WILLIAMS (BASIS OF DESIGN)	6DR-L30-8-40-DIM-UNV-O-M-CS	LED INCLUDED 3,003 LUMENS 40K 80 CRI	26.9	RECESSED	UNIVERSAL
E	EXIT SIGN, SINGLE FACE, RED LETTERING, BRUSHED ALUMINUM HOUSING, UNIVERSAL MOUNTING, PROVIDE KNOCKOUT ARROWS AS INDICATED ON LIGHT PLANS	LITHONIA LIGHTING (BASIS OF DESIGN)	LE-S-1-R	LED INCLUDED	5	UNIVERSAL	UNIVERSAL
E1	EXIT SIGN, DOUBLE FACE, RED LETTERING, BRUSHED ALUMINUM HOUSING, UNIVERSAL MOUNTING, PROVIDE KNOCKOUT ARROWS AS INDICATED ON LIGHT PLANS	LITHONIA LIGHTING (BASIS OF DESIGN)	LE-S-2-R	LED INCLUDED	5	UNIVERSAL	UNIVERSAL
E2	CLASS I, DIVISION 1, EXPLOSION PROOF EXIT SIGN WITH EMERGENCY LIGHT FIXTURE, SPOT LIGHTS ARE FULLY ADJUSTABLE, WALL OR PENDANT MOUN, EDGE LIT EXIT SIGN.	THE LIGHTING SOURCE (BASIS OF DESIGN)	XPEH-1-1-R-DT-2-0	LED INCLUDED	16	WALL OR PENDANT	UNIVERSAL
AA	EXTERIOR WALL MOUNTED LIGHT FIXTURE, DIE-CAST ALUMINUM HOUSING, ONE-PIECE SILICONE GASKET, IP-65 RATED LIGHT FIXTURE, TYPE III DISTRIBUTION PATTERN, UL WET LISTED LIGHT FIXTURE, DARK BRONZE FINISH	NLS LIGHTING (BASIS OF DESIGN)	FLX-NV-W-T3-32L-1-40K-UNV-WM-BRZ	LED INCLUDED 9,646 LUMENS 40K	71	WALL (EXTERIOR)	UNIVERSAL
AA1	EXTERIOR WALL MOUNTED LIGHT FIXTURE, DIE-CAST ALUMINUM HOUSING, ONE-PIECE SILICONE GASKET, IP-65 RATED LIGHT FIXTURE, TYPE III DISTRIBUTION PATTERN, UL WET LISTED LIGHT FIXTURE, DARK BRONZE FINISH	NLS LIGHTING (BASIS OF DESIGN)	NV-W2-T3-64L-1-40K8-UNV-WM-DRZ	LED INCLUDED 22,218 LUMENS 40K	205	WALL (EXTERIOR)	UNIVERSAL
BB	EXTERIOR POLE MOUNTED LIGHT FIXTURE, DIE-CAST ALUMINUM HOUSING, CORROSION RESISTANT EXTERNAL HARDWARE, ONE-PIECE SILICONE GASKET ENSURES IP65 SEAL, WITH BRONZE FINISH	NLS LIGHTING (BASIS OF DESIGN)	NV-2-T3-96L-7-40K8-UNV-DPS6-BRZ	LED INCLUDED 29,403 LUMENS 40K 80CRI	243	PARKING LOT POLE MOUNTED (EXTERIOR)	UNIVERSAL
BB1	25' SQUARE STRAIGHT ALUMINUM 6061 ALLOY BASE, EXTRUDED POLE SHAFT, HEAT TREATED TO PRODUCE A T6 TEMPER, GROUND LUG WELDED INSIDE HAND HOLE, POLE SHAFT WELDED TO BASE PLATE ON TOP AND BOTTOM		POLE: SSAP-25-6S-120-12BC-QD-BRZ-156				
BB1	EXTERIOR POLE MOUNTED LIGHT FIXTURE, DIE-CAST ALUMINUM HOUSING, CORROSION RESISTANT EXTERNAL HARDWARE, ONE-PIECE SILICONE GASKET ENSURES IP65 SEAL, WITH BRONZE FINISH	NLS LIGHTING (BASIS OF DESIGN)	NV-2-T3-96L-7-40K8-HV-DPS6-BRZ	LED INCLUDED 29,403 LUMENS 40K 80CRI	243	PARKING LOT POLE MOUNTED (EXTERIOR)	208
SL	LED LIGHT SOURCE SHOWER LIGHT FIXTURE, 16 GAUGE GALVANIZED STEEL PAN WITH BUILT-IN PLASTER RING, TRIM SECURED TO HOUSING WITH STAINLESS STEEL TAMPER RESISTANT FASTENERS, LENS SEALED TO TRIM.	PEACHTREE LIGHTING (BASIS OF DESIGN)	6BLRD-BU-DFS-32-DMLV10-40K-80-CP-LHW-120	LED INCLUDED 3,340 LUMENS 40K 80 CRI	32	RECESSED	120
F	VAPOR PROOF LED WALL PACK LIGHT FIXTURE WITH ALUMINUM SHROUD, SUITABLE FOR WET LOCATIONS, NATURAL SHOT BLASTED ALUMINUM FINISH, DIE-CAST ALUMINUM HOUSING.	RAB LIGHTING (BASIS OF DESIGN)	VXBRLED26DG-40K-26	LED INCLUDED 26W 40K	26	WALL MOUNTED SURFACE	120
G	EXPLOSION PROOF LIGHT FIXTURE, HOUSING CONSTRUCTED OUT OF ALUMINUM, FROSTED GLASS LENS, UL WET LISTED IP66 RATED, LISTED LOCATION, SUITABLE FOR CLASS I, DIVISION 1 INSTALLATION.	RAB LIGHTING (BASIS OF DESIGN)	HAZBAYLED100CF	(1) 100W. LED INCLUDED	97.6	CEILING SURFACE	120

GENERAL NOTES:

- A. LIGHT FIXTURES SUBMITTED ARE AMERICAN MADE AND COMPLY WITH FAR CLAUSE AND BUY AMERICAN ACT.
- B. SUBSTITUTED LIGHT FIXTURES SHALL COMPLY WITH FAR CLAUSE AND BUY AMERICAN ACT.
- C. SUBSTITUTED LIGHT FIXTURES SHALL BE OF EQUAL TO OT GREATER VALUE AND SHALL MEET PERFORMANCE OF SPECIFIED LIGHT FIXTURES.

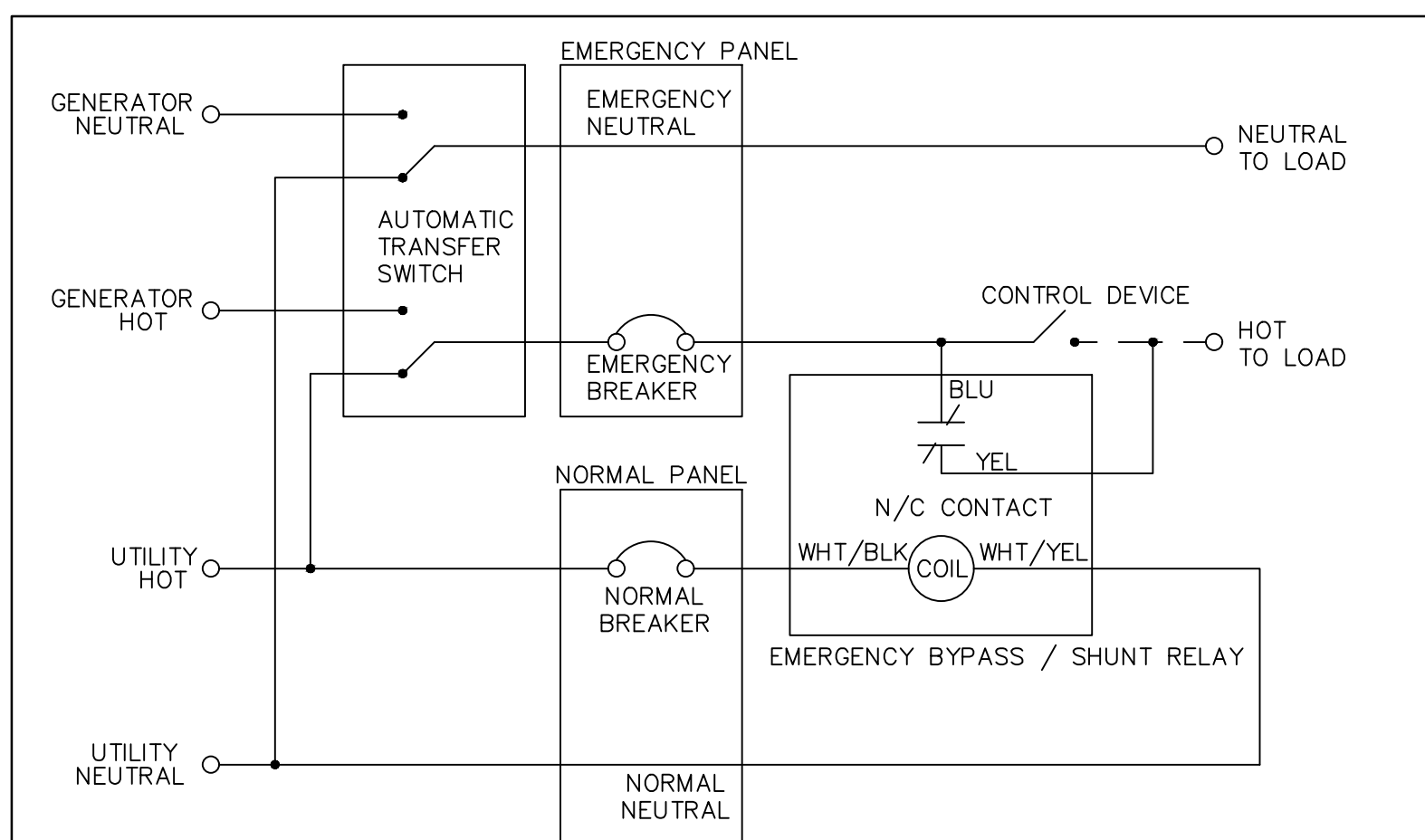
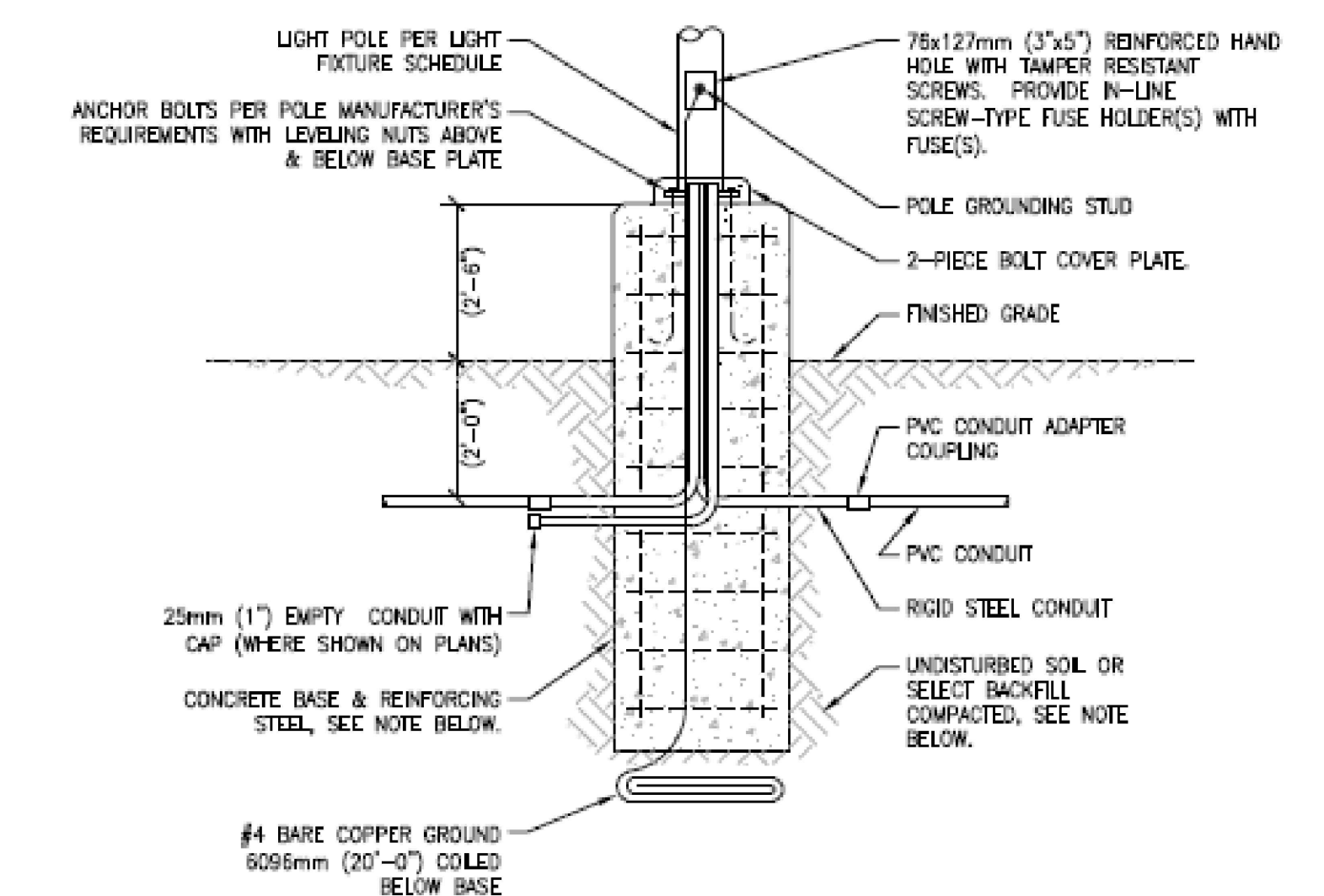
1 LIGHT FIXTURE SCHEDULE
NO SCALE

OCCUPANCY SENSOR NOTES

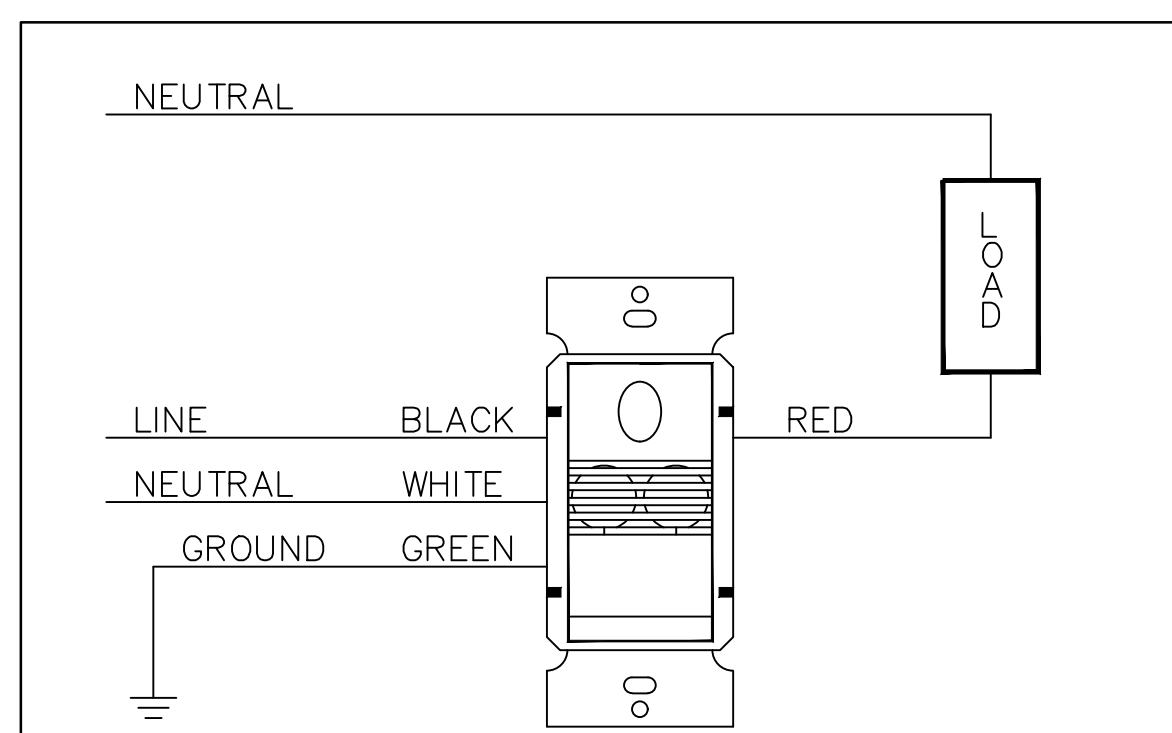
- A. REFER TO SPECIFICATION 262923 FOR ADDITIONAL INFORMATION.
- B. THE ELECTRICAL CONTRACTOR SHALL COORDINATE DIPSWITCH SETTINGS WITH OWNER PRIOR TO COMPLETION OF PROJECT.

6 POLE BASE DETAIL - TURF AREAS
NO SCALE

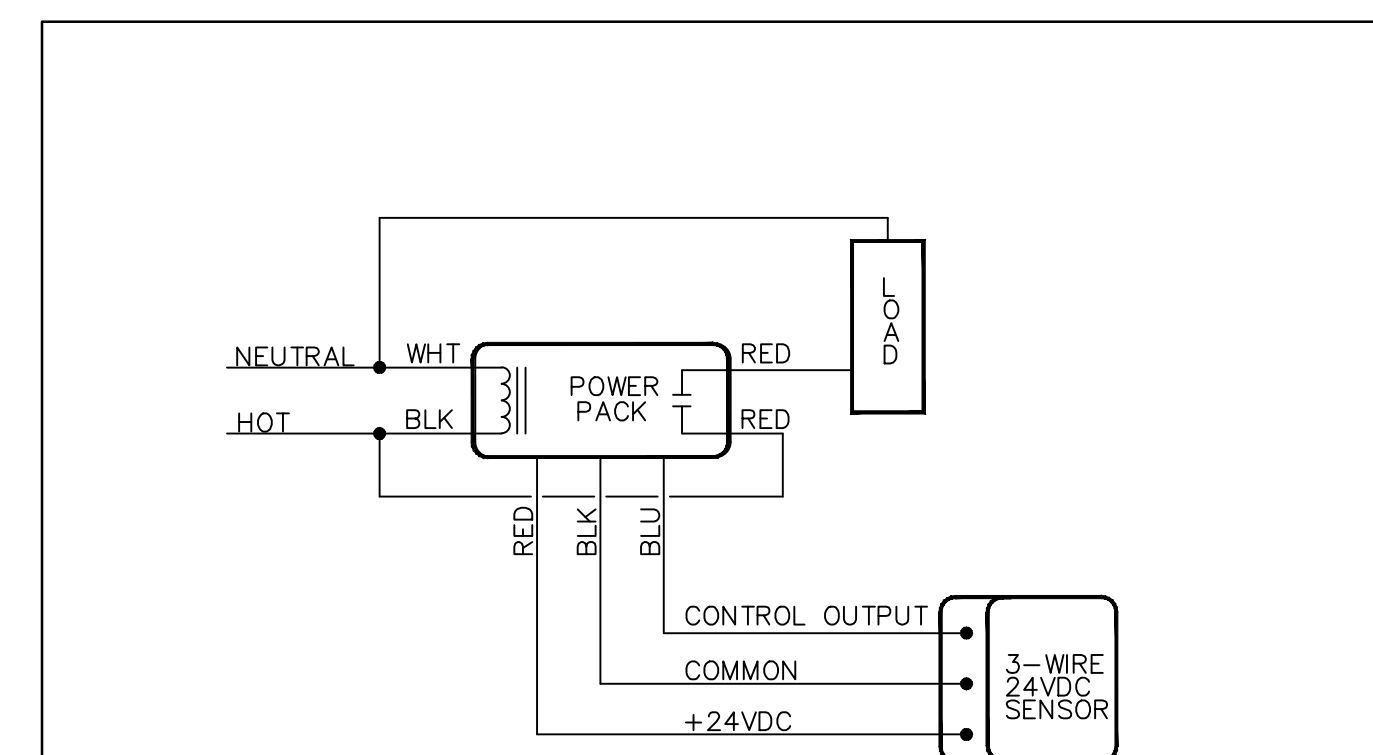
- GENERAL NOTES:**
- 1. BACKFILL, CONCRETE, REINFORCING STEEL, & ANCHOR BOLTS ARE SHOWN FOR REFERENCE ONLY. STRUCTURAL DESIGN IS SHOWN ON STRUCTURAL DRAWINGS.
 - 2. REFER TO SPECIFICATION SECTION 26 56 00 FOR MOUNTING & LEVELING REQUIREMENTS.



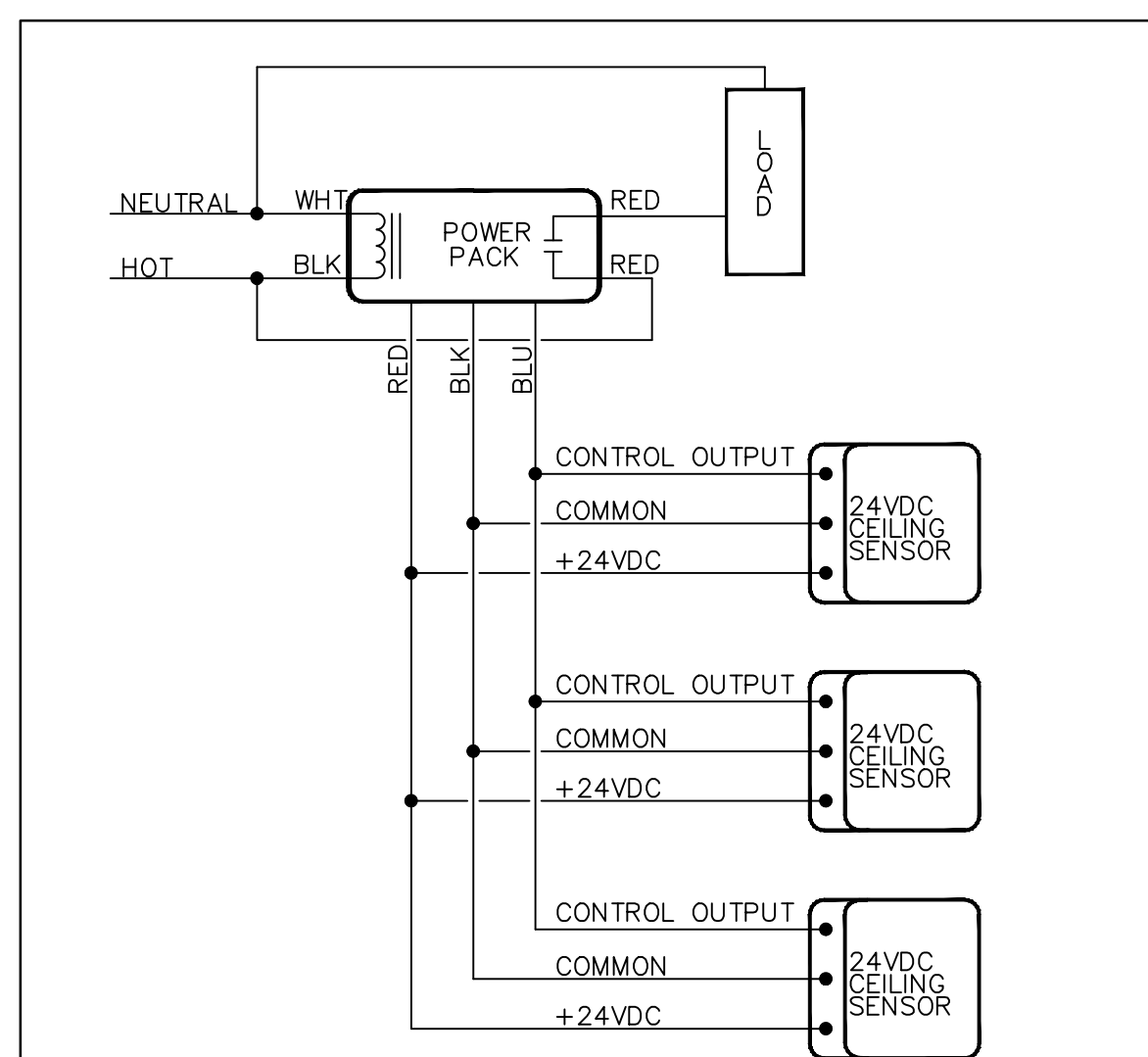
2 EMERGENCY BY-PASS RELAY DETAIL
SCALE: NOT TO SCALE



3 WALL MOUNTED OCCUPANCY SENSOR DETAIL
NO SCALE



4 CEILING MOUNTED OCCUPANCY SENSOR WIRING DIAGRAM
NO SCALE



5 MULTIPLE CEILING MOUNTED OCCUPANCY SENSORS WIRING DIAGRAM
NO SCALE

CONSULTANT ARCHITECT/ENGINEER OF RECORD paradigm Architecture Engineering Design-Build 9000 Weissex Place, Louisville, KY 40222 www.paradigmusa.com	STAMP 	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title LIGHT FIXTURE SCHEDULE AND LIGHTING DETAILS	Phase 100% CONSTRUCTION DOCUMENTS	Project Title SIOUX FALLS BOILER PLANT	Project Number 438-22-900
			Approved: Project Director	Location VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	Building Number 12	Drawing Number EL501

NOTES

A. REFER TO DRAWING EL501 FOR MODEL NUMBERS OF LIGHT FIXTURES.

76 LED Standard Strip

FEATURES

- 76" Standard Strip
- 120V AC
- 150W
- 1200lm
- 100lm/W
- 5000K
- 5 Year Warranty

TABLE OF OPTIONS

Option	Description	Code	Price
01	Standard	01	120.00
02	...	02	...

1 LIGHT FIXTURE TYPE "A" (BASIS OF DESIGN) NOT TO SCALE

76 LED Standard Strip

FEATURES

- 76" Standard Strip
- 120V AC
- 150W
- 1200lm
- 100lm/W
- 5000K
- 5 Year Warranty

TABLE OF OPTIONS

Option	Description	Code	Price
01	Standard	01	120.00
02	...	02	...

2 LIGHT FIXTURE TYPE "A1" (BASIS OF DESIGN) NOT TO SCALE

76 LED Standard Strip

FEATURES

- 76" Standard Strip
- 120V AC
- 150W
- 1200lm
- 100lm/W
- 5000K
- 5 Year Warranty

TABLE OF OPTIONS

Option	Description	Code	Price
01	Standard	01	120.00
02	...	02	...

3 LIGHT FIXTURE TYPE "A2" (BASIS OF DESIGN) NOT TO SCALE

2BLT2

FEATURES & SPECIFICATIONS

- 2BLT2
- 120V AC
- 150W
- 1200lm
- 100lm/W
- 5000K
- 5 Year Warranty

TABLE OF OPTIONS

Option	Description	Code	Price
01	Standard	01	120.00
02	...	02	...

4 LIGHT FIXTURE TYPE "B" (BASIS OF DESIGN) NOT TO SCALE

6DR LED

FEATURES & SPECIFICATIONS

- 6DR LED
- 120V AC
- 150W
- 1200lm
- 100lm/W
- 5000K
- 5 Year Warranty

TABLE OF OPTIONS

Option	Description	Code	Price
01	Standard	01	120.00
02	...	02	...

5 LIGHT FIXTURE TYPE "D" (BASIS OF DESIGN) NOT TO SCALE

LE and LRE

FEATURES & SPECIFICATIONS

- LE and LRE
- 120V AC
- 150W
- 1200lm
- 100lm/W
- 5000K
- 5 Year Warranty

TABLE OF OPTIONS

Option	Description	Code	Price
01	Standard	01	120.00
02	...	02	...

6 LIGHT FIXTURE TYPE "E" (BASIS OF DESIGN) NOT TO SCALE

LE and LRE

FEATURES & SPECIFICATIONS

- LE and LRE
- 120V AC
- 150W
- 1200lm
- 100lm/W
- 5000K
- 5 Year Warranty

TABLE OF OPTIONS

Option	Description	Code	Price
01	Standard	01	120.00
02	...	02	...

7 LIGHT FIXTURE TYPE "E1" (BASIS OF DESIGN) NOT TO SCALE

XPEH LED

Explosion Proof LED Emergency Light & Exit Sign

Key Features:

- Two high lumen spot lights can be adjusted in horizontal and vertical planes
- Independent battery backup system for exit signs and spotlights
- Exit can power up to two optional remote spot lights
- Field replaceable LED crystal boards and drivers with quick disconnects
- Emergency battery back-up integrals to sign (no additional enclosure required)
- 3-hour emergency operation
- Edge-light sign

Additional Features:

- Wide, pendant and end mounting options
- Capable, height-adjustable door
- Wide and narrow-beam optics available
- Separate push-to-test and pilot light for local and remote tests
- Separate sealed NiCad batteries for exit sign
- Alternate exit legend and languages available
- Single or dual-bus-rated option
- Three 1" NPT hubs
- Feet or green LED optics

Standard Materials:

- Body: A306 aluminum (less than 4% copper content)
- Capable, height-adjustable door: Quatex, Clearplex, Resinex
- Sign: Arystic
- Hardware: Stainless steel

8 LIGHT FIXTURE TYPE "E2" (BASIS OF DESIGN) NOT TO SCALE

VXRLED20DG

FEATURES & SPECIFICATIONS

- VXRLED20DG
- 120V AC
- 150W
- 1200lm
- 100lm/W
- 5000K
- 5 Year Warranty

TABLE OF OPTIONS

Option	Description	Code	Price
01	Standard	01	120.00
02	...	02	...

9 LIGHT FIXTURE TYPE "F" (BASIS OF DESIGN) NOT TO SCALE

HAZBAYLED Hazardous Locations High Bay

FEATURES & SPECIFICATIONS

- HAZBAYLED
- 120V AC
- 150W
- 1200lm
- 100lm/W
- 5000K
- 5 Year Warranty

TABLE OF OPTIONS

Option	Description	Code	Price
01	Standard	01	120.00
02	...	02	...

10 LIGHT FIXTURE TYPE "G" (BASIS OF DESIGN) NOT TO SCALE

FLX-NV-W

FORM AND FUNCTION

- 120V AC
- 150W
- 1200lm
- 100lm/W
- 5000K
- 5 Year Warranty

TABLE OF OPTIONS

Option	Description	Code	Price
01	Standard	01	120.00
02	...	02	...

11 LIGHT FIXTURE TYPE "AA" (BASIS OF DESIGN) NOT TO SCALE

NV-W2

ARCHITECTURAL HIGH PERFORMANCE FULL CUTOFF WALL PACK

KEY FEATURES

- 120V AC
- 150W
- 1200lm
- 100lm/W
- 5000K
- 5 Year Warranty

TABLE OF OPTIONS

Option	Description	Code	Price
01	Standard	01	120.00
02	...	02	...

12 LIGHT FIXTURE TYPE "AA1" (BASIS OF DESIGN) NOT TO SCALE

NV-2

AREA LIGHTING

KEY FEATURES

- 120V AC
- 150W
- 1200lm
- 100lm/W
- 5000K
- 5 Year Warranty

TABLE OF OPTIONS

Option	Description	Code	Price
01	Standard	01	120.00
02	...	02	...

13 LIGHT FIXTURE TYPE "BB" (BASIS OF DESIGN) NOT TO SCALE

SSAP

POLE BASE - FIXTURE TYPE "BB"

KEY FEATURES

- 120V AC
- 150W
- 1200lm
- 100lm/W
- 5000K
- 5 Year Warranty

TABLE OF OPTIONS

Option	Description	Code	Price
01	Standard	01	120.00
02	...	02	...

14 POLE BASE - FIXTURE TYPE "BB" (BASIS OF DESIGN) NOT TO SCALE

NV-2

AREA LIGHTING

KEY FEATURES

- 120V AC
- 150W
- 1200lm
- 100lm/W
- 5000K
- 5 Year Warranty

TABLE OF OPTIONS

Option	Description	Code	Price
01	Standard	01	120.00
02	...	02	...

15 LIGHT FIXTURE TYPE "BB1" (BASIS OF DESIGN) NOT TO SCALE

6BLRD-BU-DFS

6" Recessed LED Light Fixture

KEY FEATURES

- 120V AC
- 150W
- 1200lm
- 100lm/W
- 5000K
- 5 Year Warranty

TABLE OF OPTIONS

Option	Description	Code	Price
01	Standard	01	120.00
02	...	02	...

16 LIGHT FIXTURE TYPE "SL" (BASIS OF DESIGN) NOT TO SCALE

Revisions:

Rev	Description	Date

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

paradigm

Architecture | Engineering | Design-Build

9000 Westex Place, Louisville, KY 40222

www.paradigmusa.com

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

9/12/2024

Drawing Title: LIGHT FIXTURE CUT SHEETS

Phase: 100% CONSTRUCTION DOCUMENTS

Project Title: SIOUX FALLS BOILER PLANT

Location: VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105

Issue Date: 06/25/2024

Checked: WLM

Drawn: KMB

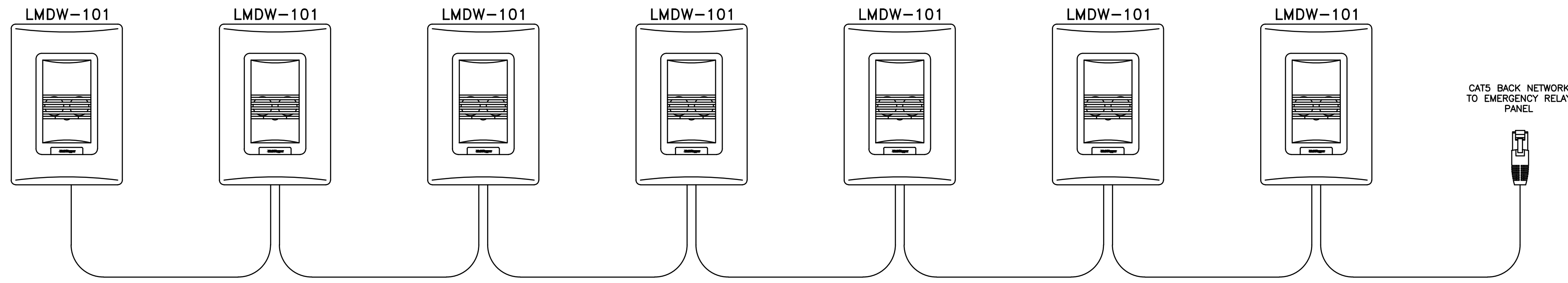
Project Number: 438-22-900

Building Number: 12

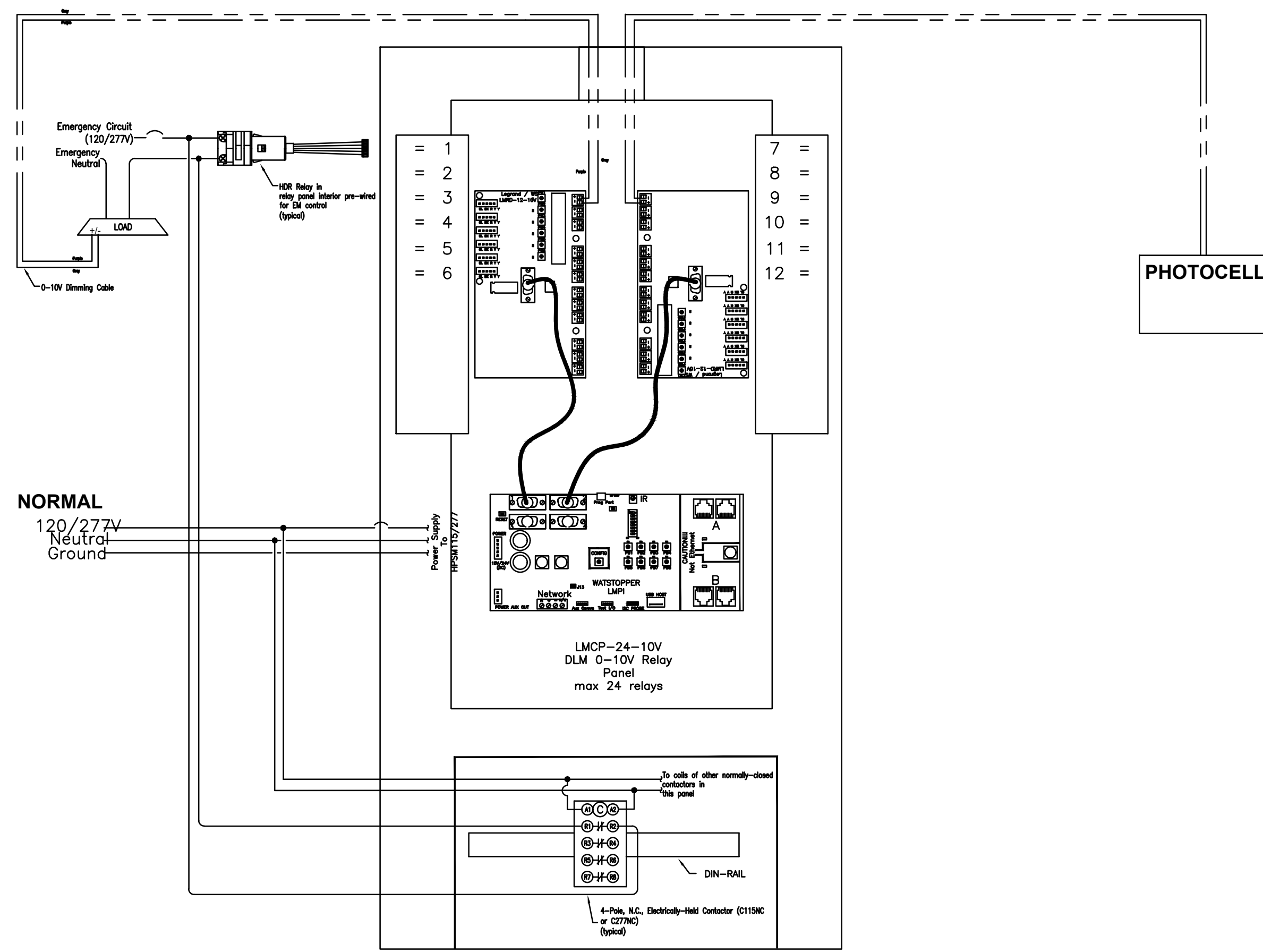
Drawing Number: EL502

ELECTRICAL DETAILS GENERAL NOTES

- A. LIGHT FIXTURES MUST COMPLY WITH FAR CLAUSE AND BUY AMERICAN ACT IN ORDER TO BE CONSIDERED EQUAL TO LIGHT FIXTURES LISTED IN "BASIS OF DESIGN".
- B. REFER TO FLOOR PLANS FOR LOCATIONS OF EQUIPMENT AND DEVICES.
- C. BASIS OF DESIGN SHALL BE MANUFACTURED BY: WATT STOPPER, REFER TO THIS SHEET FOR ADDITIONAL INFORMATION.
- D. THE CONTRACTOR SHALL INSTALL OCCUPANCY SENSORS DIRECTLY IN THE CENTER OF CEILING TILE.
- E. THE CONTRACTOR SHALL INCLUDE IN BID NUMBER (8) HOURS OF PROGRAMMING FROM A FACTORY TRAINED REPRESENTATIVE TO PROGRAM LIGHTING CONTROL DEVICES.
- F. REFER TO SPECIFICATION 262923 FOR ADDITIONAL LIGHTING CONTROL INFORMATION.



2 LOW VOLTAGE SWITCH-WIRING DIAGRAM



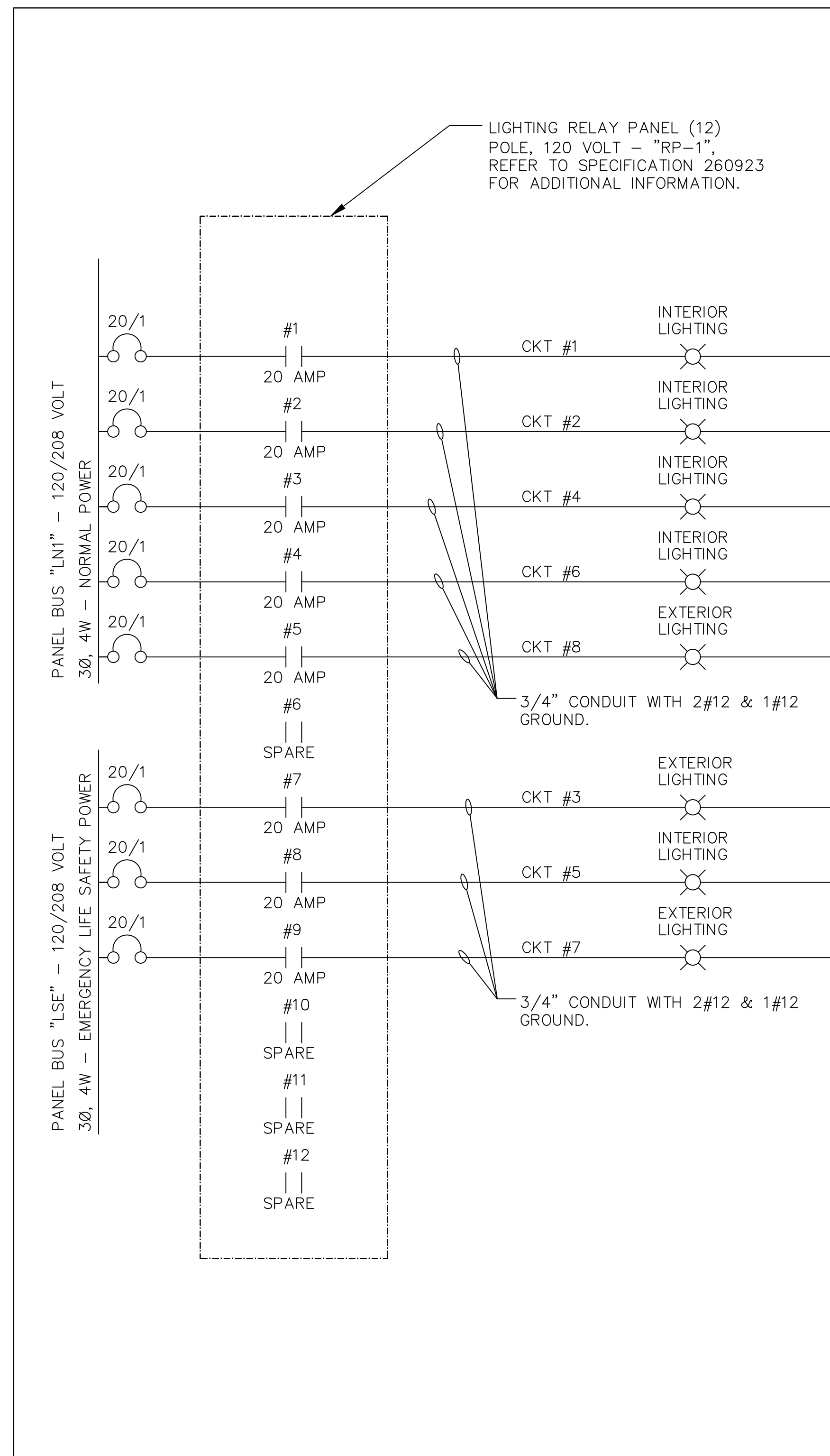
Sequence of Operation:

Under normal power conditions, the N.C. contacts in the contactors are open, allowing the HDR relays to control the emergency light fixtures.

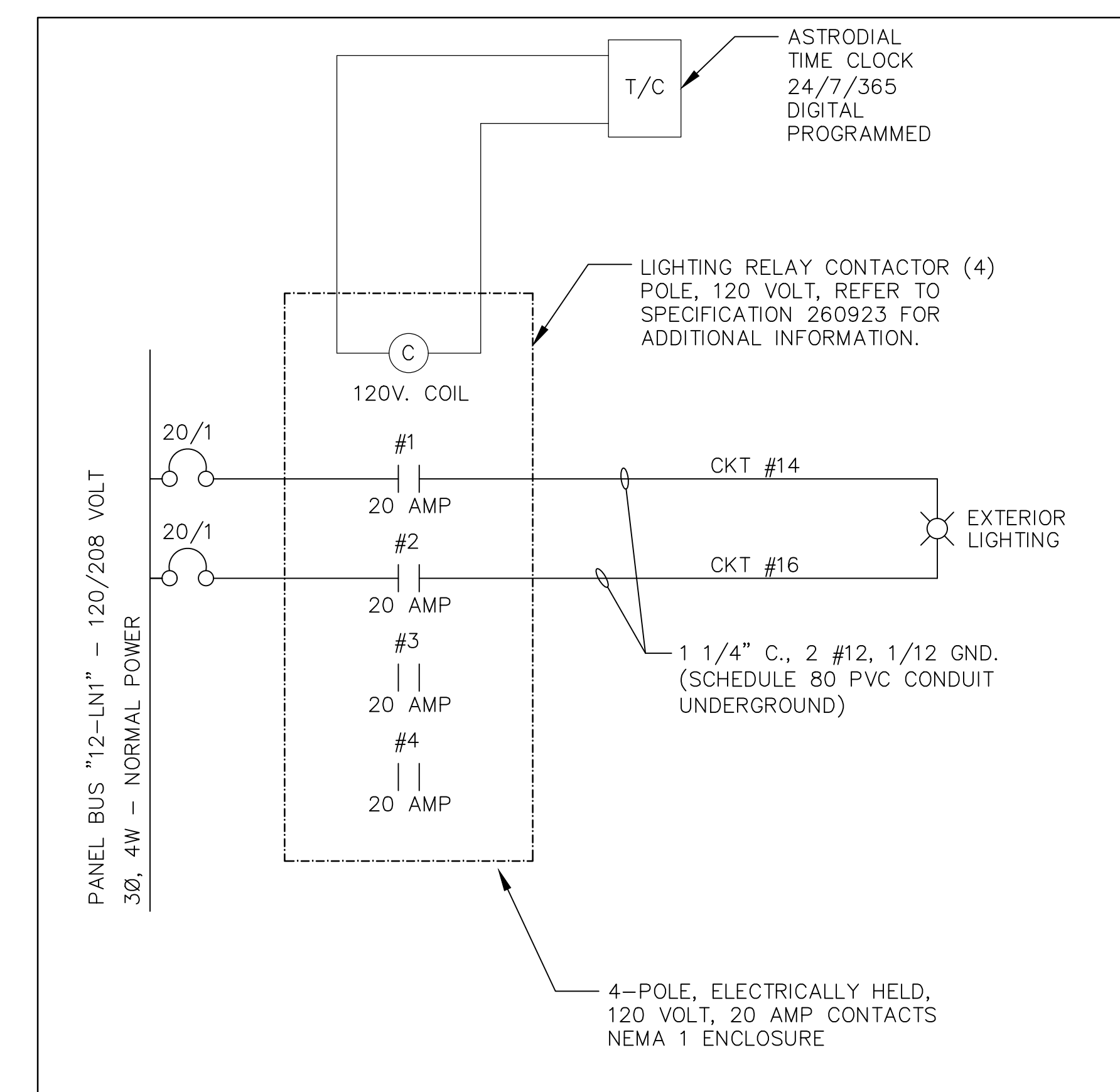
Upon loss of normal power, the N.C. contacts in the contactors close and the 0-10V dimming channels open, bringing emergency relays to full bright.

When power is restored, control is returned to the HDR relays.

Note: This shows wiring for a LMC-24 with the EM relays included. Contactors will be pre-mounted in the panel. Starting with the last relay, all those dedicated to emergency will be wired to a contact on the 4-pole contactor(s).



3 RELAY PANEL 'RP-1' WIRING DIAGRAM
NOT TO SCALE



4 LIGHTING CONTACTOR AND TIMECLOCK WIRING DETAIL
NOT TO SCALE

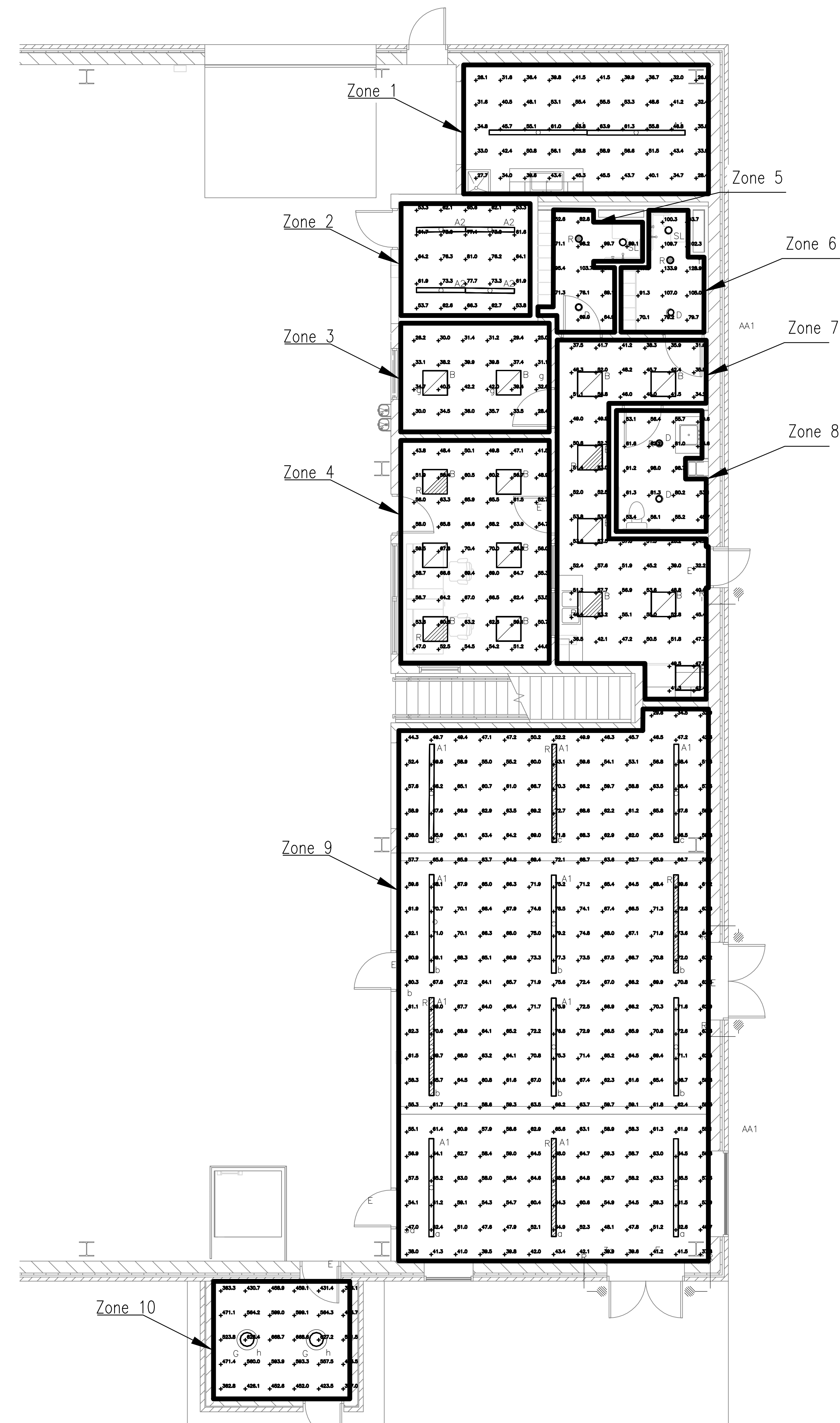
1 EXTERIOR/SMALL OFFICES/BATHROOMS WITH EMERGENCY

Revisions:	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title	Phase	Project Title	Project Number
		paradigm Architecture Engineering Design-Build 9000 Weissex Place, Louisville, KY 40222 www.paradigmusa.com		U.S. Department of Veterans Affairs	LOW VOLTAGE LIGHTING DIAGRAM AND DETAILS	100% CONSTRUCTION DOCUMENTS	SIoux FALLS BOILER PLANT	438-22-900
	Date:				Approved: Project Director	FULLY SPRINKLERED	Location	Building Number
							VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	12
							Issue Date	Drawing Number
							06/25/2024	EL503
							Checked	
							WLM	
							Drawn	
							KMB	

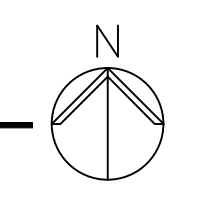
GENERAL NOTES

- A. REFER TO E-001 FOR ELECTRICAL LEGEND, GENERAL NOTES, AND ABBREVIATIONS.
- B. REFER TO DRAWING EL101 AND EL102 FOR CIRCUITING REQUIREMENTS OF LIGHT FIXTURES.
- C. REFER TO DRAWING EL501 AND EL502 FOR LIGHT FIXTURE SCHEDULE AND CUT SHEET INFORMATION.

Description	Statistics				
	Avg.	Max.	Min.	Max/Min	Avg/Min
Calc Zone #1	44.1 fc	63.9 fc	26.1 fc	2.4:1	1.7:1
Calc Zone #2	66.1 fc	81.0 fc	53.3 fc	1.5:1	1.2:1
Calc Zone #3	34.3 fc	42.2 fc	25.0 fc	1.7:1	1.4:1
Calc Zone #4	58.5 fc	70.4 fc	41.5 fc	1.7:1	1.4:1
Calc Zone #5	78.4 fc	103.7 fc	52.6 fc	2.0:1	1.5:1
Calc Zone #6	96.0 fc	133.9 fc	47.3 fc	2.8:1	2.0:1
Calc Zone #7	46.3 fc	57.7 fc	24.5 fc	2.4:1	1.9:1
Calc Zone #8	66.9 fc	98.7 fc	48.7 fc	2.0:1	1.4:1
Calc Zone #9	61.8 fc	79.2 fc	29.6 fc	2.7:1	2.1:1
Calc Zone #10	504.5 fc	668.7 fc	357.0 fc	1.9:1	1.4:1



1 FIRST FLOOR NORMAL LIGHTING CALCULATION
NOT TO SCALE

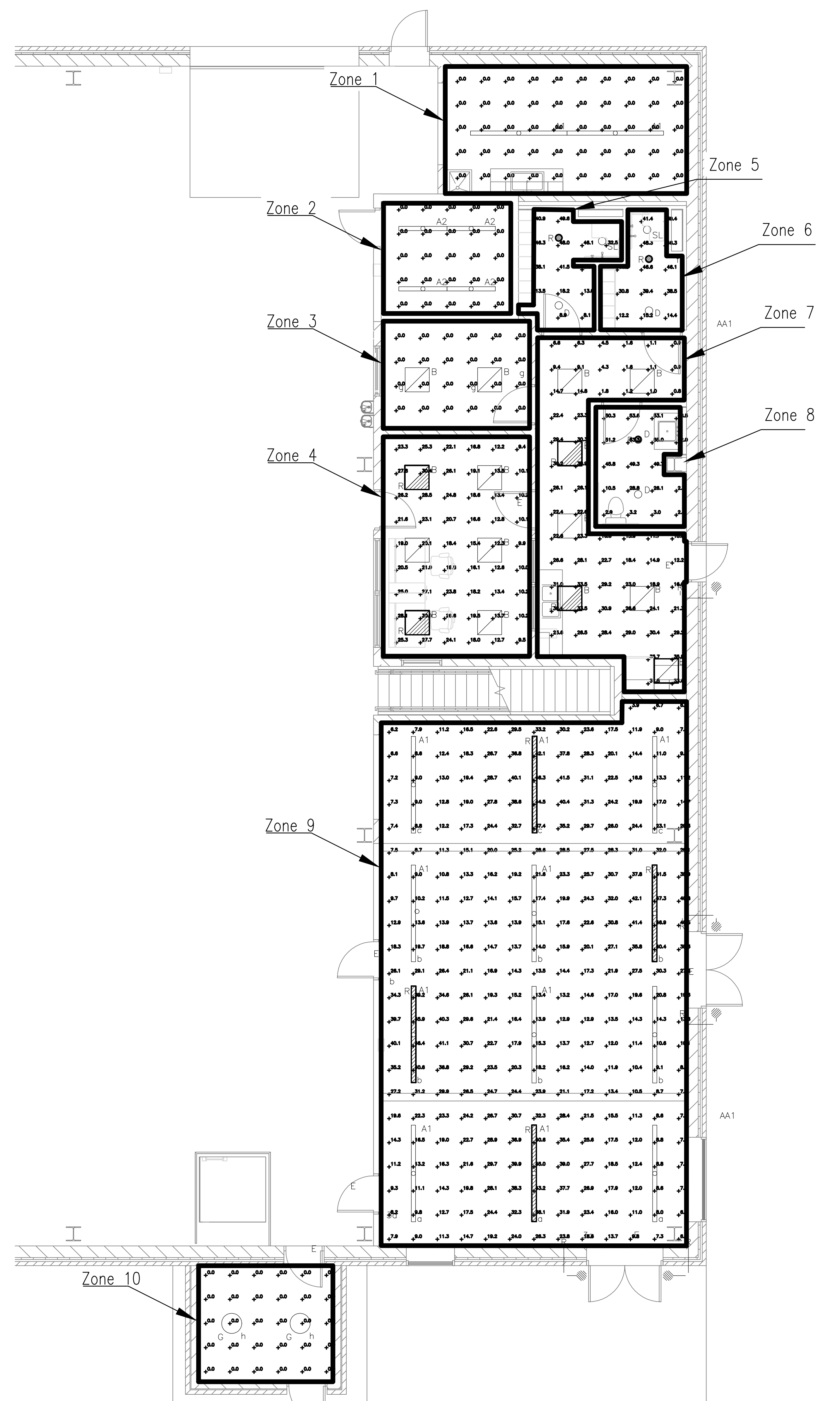


	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title FIRST FLOOR NORMAL LIGHTING CALCULATION	Phase 100% CONSTRUCTION DOCUMENTS	Project Title SIOUX FALLS BOILER PLANT	Project Number 438-22-900
		 Architecture Engineering Design-Build 9000 Wesley Place, Louisville, KY 40222 www.paradigmusa.com	 9/12/2024	U.S. Department of Veterans Affairs	Approved: Project Director	FULLY SPRINKLERED	Location VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	Building Number 12
Revisions:	Date:						Issue Date 06/25/2024	Checked WLM
							Drawn KMB	Drawing Number EL504

GENERAL NOTES

- A. REFER TO E-001 FOR ELECTRICAL LEGEND, GENERAL NOTES, AND ABBREVIATIONS.
- B. REFER TO DRAWING EL101 AND EL102 FOR CIRCUITING REQUIREMENTS OF LIGHT FIXTURES.
- C. REFER TO DRAWING EL501 AND EL502 FOR LIGHT FIXTURE SCHEDULE AND CUT SHEET INFORMATION.

Description	Statistics				
	Avg.	Max.	Min.	Max/Min	Avg/Min
Calc Zone #1	0.0 fc	0.0 fc	0.0 fc	N/A	N/A
Calc Zone #2	0.0 fc	0.0 fc	0.0 fc	N/A	N/A
Calc Zone #3	0.0 fc	0.0 fc	0.0 fc	N/A	N/A
Calc Zone #4	18.9 fc	30.9 fc	9.4 fc	3.3:1	2.0:1
Calc Zone #5	29.1 fc	49.6 fc	2.5 fc	19.8:1	11.6:1
Calc Zone #6	33.1 fc	48.3 fc	11.3 fc	4.3:1	2.9:1
Calc Zone #7	19.2 fc	35.8 fc	0.8 fc	44.8:1	24.0:1
Calc Zone #8	33.8 fc	55.0 fc	2.4 fc	22.9:1	14.1:1
Calc Zone #9	21.2 fc	47.3 fc	3.9 fc	12.1:1	5.4:1
Calc Zone #10	0.0 fc	0.0 fc	0.0 fc	N/A	N/A



1 FIRST FLOOR EGRESS LIGHTING CALCULATION
NOT TO SCALE

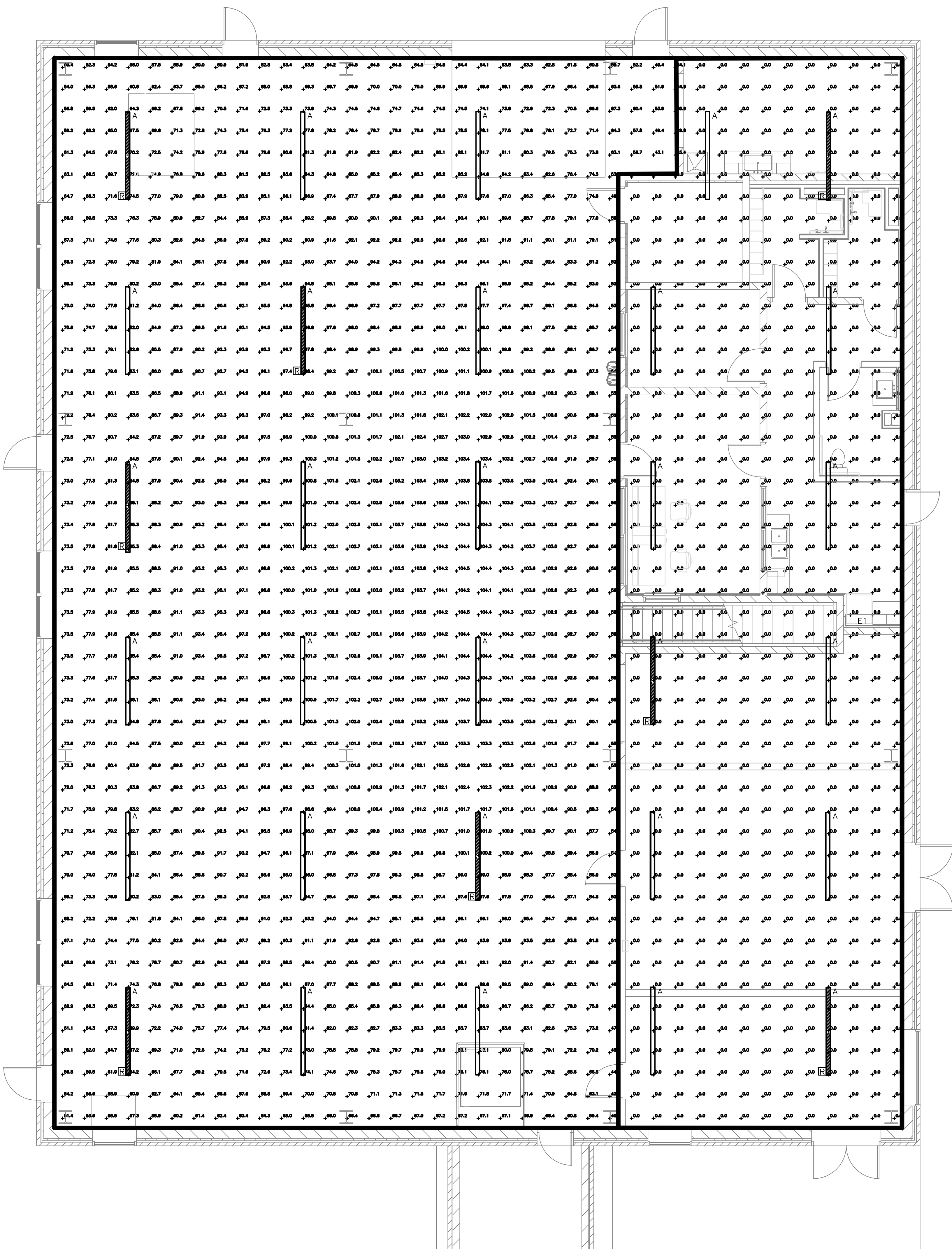
Revisions: Date:	CONSULTANT Architecture Engineering Design-Build <small>9000 Wesley Place, Louisville, KY 40222 www.paradigmusa.com</small>	ARCHITECT/ENGINEER OF RECORD STAMP <small>9/12/2024</small>	Office of Construction and Facilities Management 	Drawing Title FIRST FLOOR EGRESS LIGHTING CALCULATION Approved: Project Director	Phase 100% CONSTRUCTION DOCUMENTS	Project Title SIOUX FALLS BOILER PLANT	Project Number 438-22-900 Building Number 12 Drawing Number EL505	
					FULLY SPRINKLERED	Location VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	Issue Date 06/25/2024	Checked WLM

GENERAL NOTES

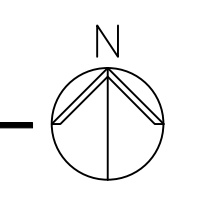
- A. REFER TO E-001 FOR ELECTRICAL LEGEND, GENERAL NOTES, AND ABBREVIATIONS.
- B. REFER TO DRAWING EL101 AND EL102 FOR CIRCUITING REQUIREMENTS OF LIGHT FIXTURES.
- C. REFER TO DRAWING EL501 AND EL502 FOR LIGHT FIXTURE SCHEDULE AND CUT SHEET INFORMATION.

Statistics		
Description	Avg.	Max.
Calc Zone #1	57.8 fc	104.5 fc

A
B
C
D
E
F



1 MEZZANINE NORMAL LIGHTING CALCULATION
NOT TO SCALE



Revisions:	Date:

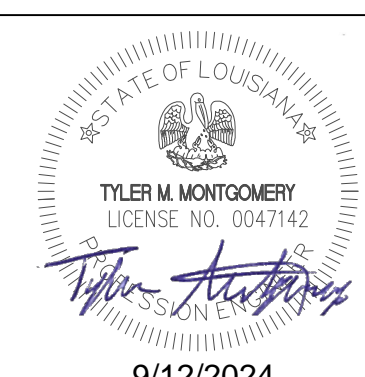
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U.S. Department of Veterans Affairs

Drawing Title	MEZZANINE NORMAL LIGHTING CALCULATION
Approved: Project Director	

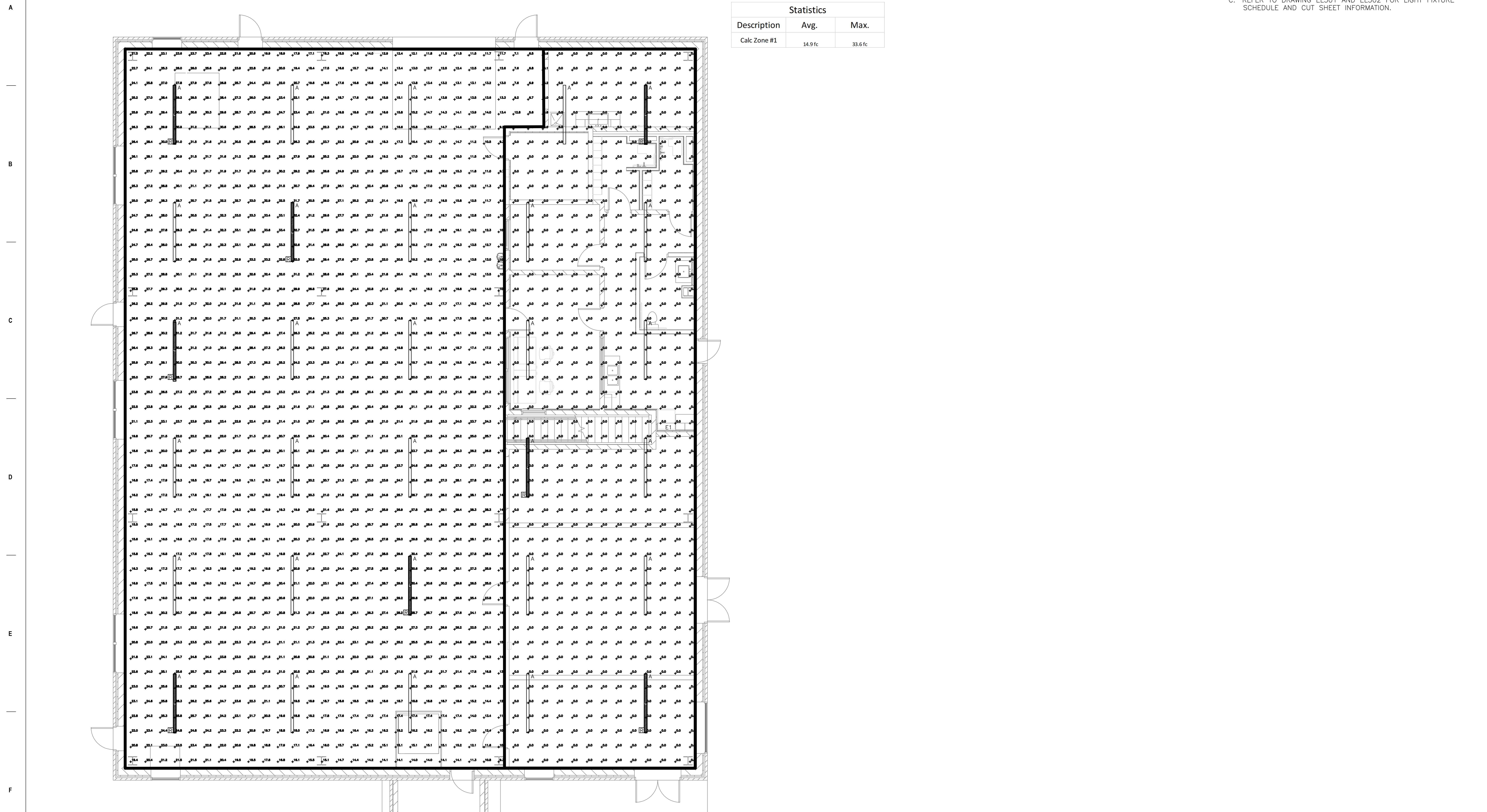
Phase	100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED	

Project Title	SIoux FALLS BOILER PLANT	Project Number	438-22-900
Location	VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	Building Number	12
Issue Date	06/25/2024	Checked	WLM
Drawn	KMB	Drawing Number	EL506

GENERAL NOTES

- A. REFER TO E-001 FOR ELECTRICAL LEGEND, GENERAL NOTES, AND ABBREVIATIONS.
- B. REFER TO DRAWING EL101 AND EL102 FOR CIRCUITING REQUIREMENTS OF LIGHT FIXTURES.
- C. REFER TO DRAWING EL501 AND EL502 FOR LIGHT FIXTURE SCHEDULE AND CUT SHEET INFORMATION.

Statistics		
Description	Avg.	Max.
Calc Zone #1	14.9 fc	33.6 fc



1 MEZZANINE EGRESS LIGHTING CALCULATION
NOT TO SCALE

Revisions:	Date:

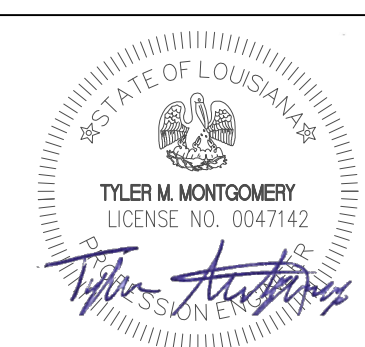
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Office of Construction and Facilities Management



U.S. Department of Veterans Affairs

Drawing Title	MEZZANINE EGRESS LIGHTING CALCULATION
Approved: Project Director	

Phase	100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED	

Project Title	SIoux FALLS BOILER PLANT
Location	VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105
Issue Date	06/25/2024

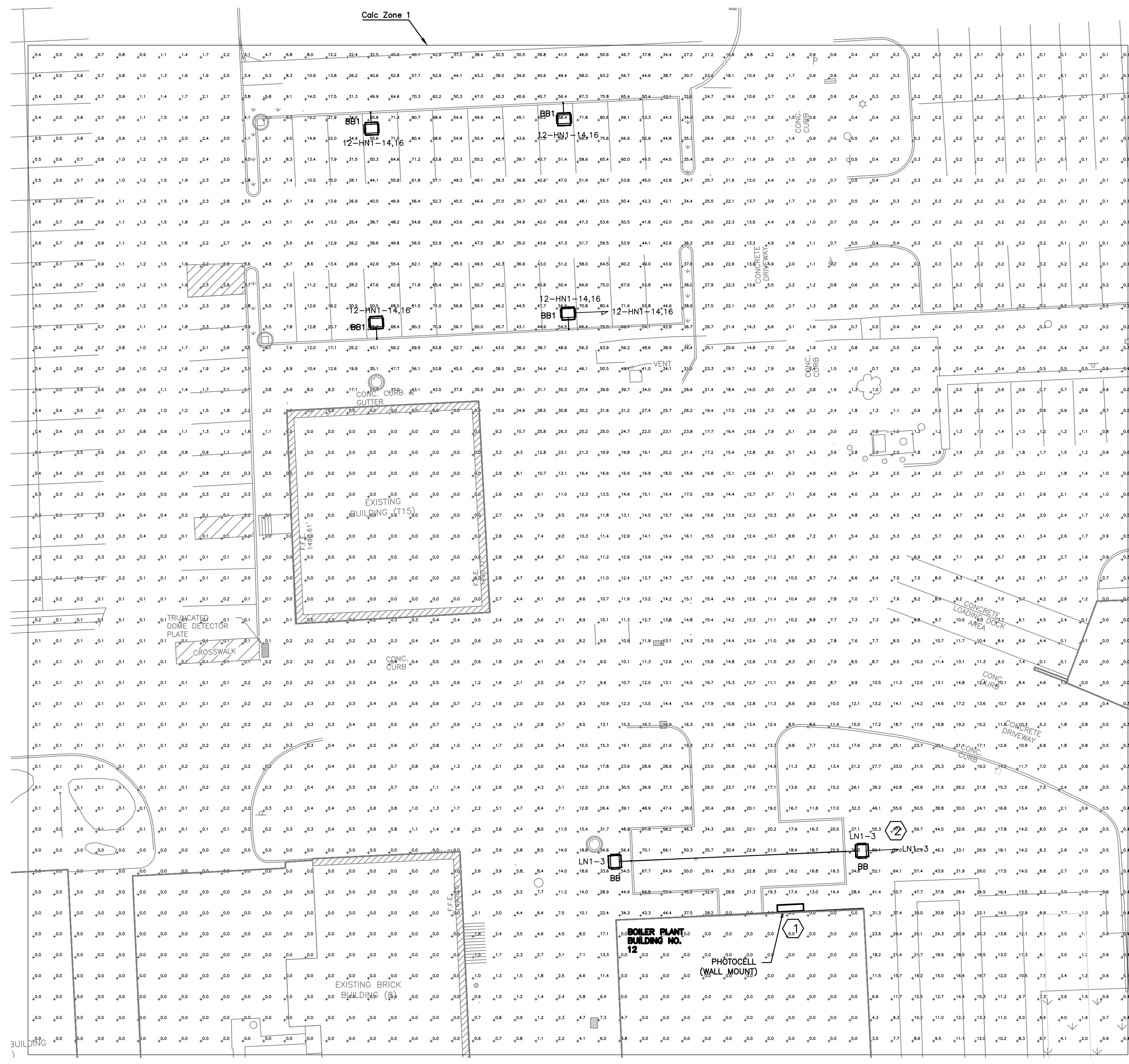
Project Number	438-22-900
Building Number	12
Drawing Number	EL507

Checked	WLM
Drawn	KMB


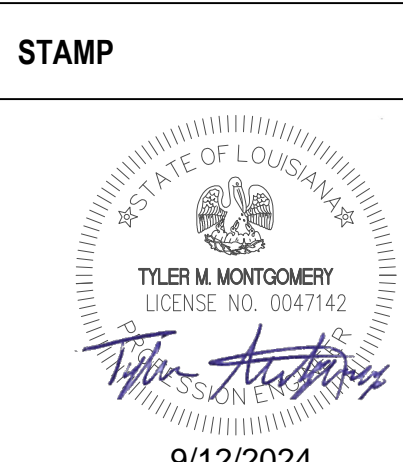

GENERAL NOTES

- A. REFER TO DRAWING EL501 FOR LIGHT FIXTURE MANUFACTURER AND MODEL NUMBER INFORMATION.
- B. REFER TO DRAWING EP101 FOR LOCATION AND QUANTITY OF LIGHT FIXTURES.

Statistics					
Description	Avg.	Max.	Min.	Max/Min	Avg/Min
Calc Zone #1	10.7 fc	81.0 fc	0.0 fc	n/a	n/a



1 SITE PLAN NOT TO SCALE

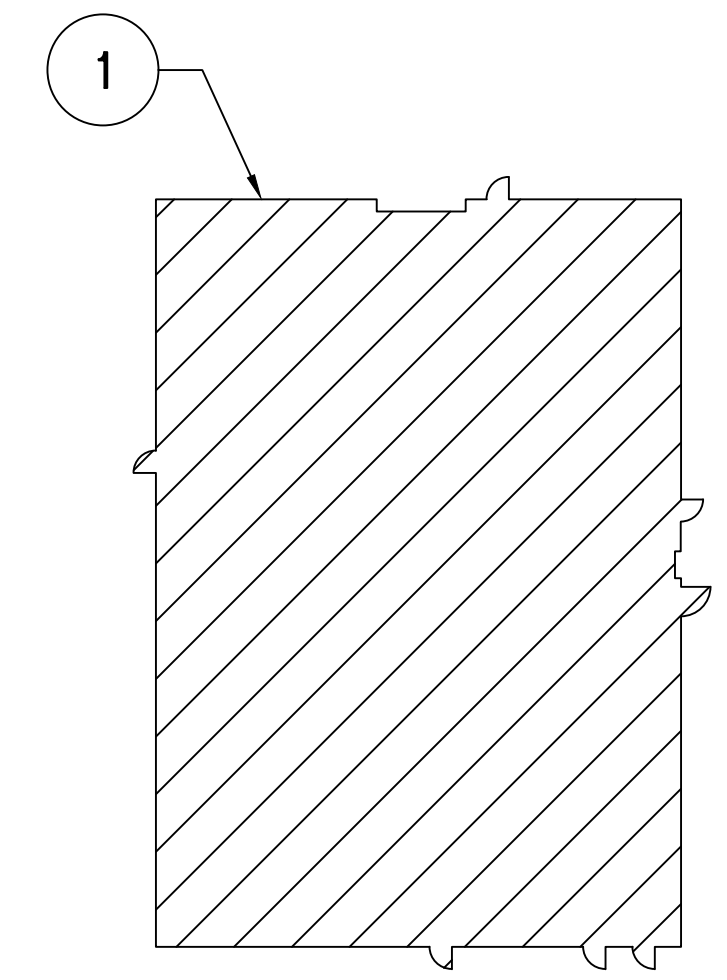
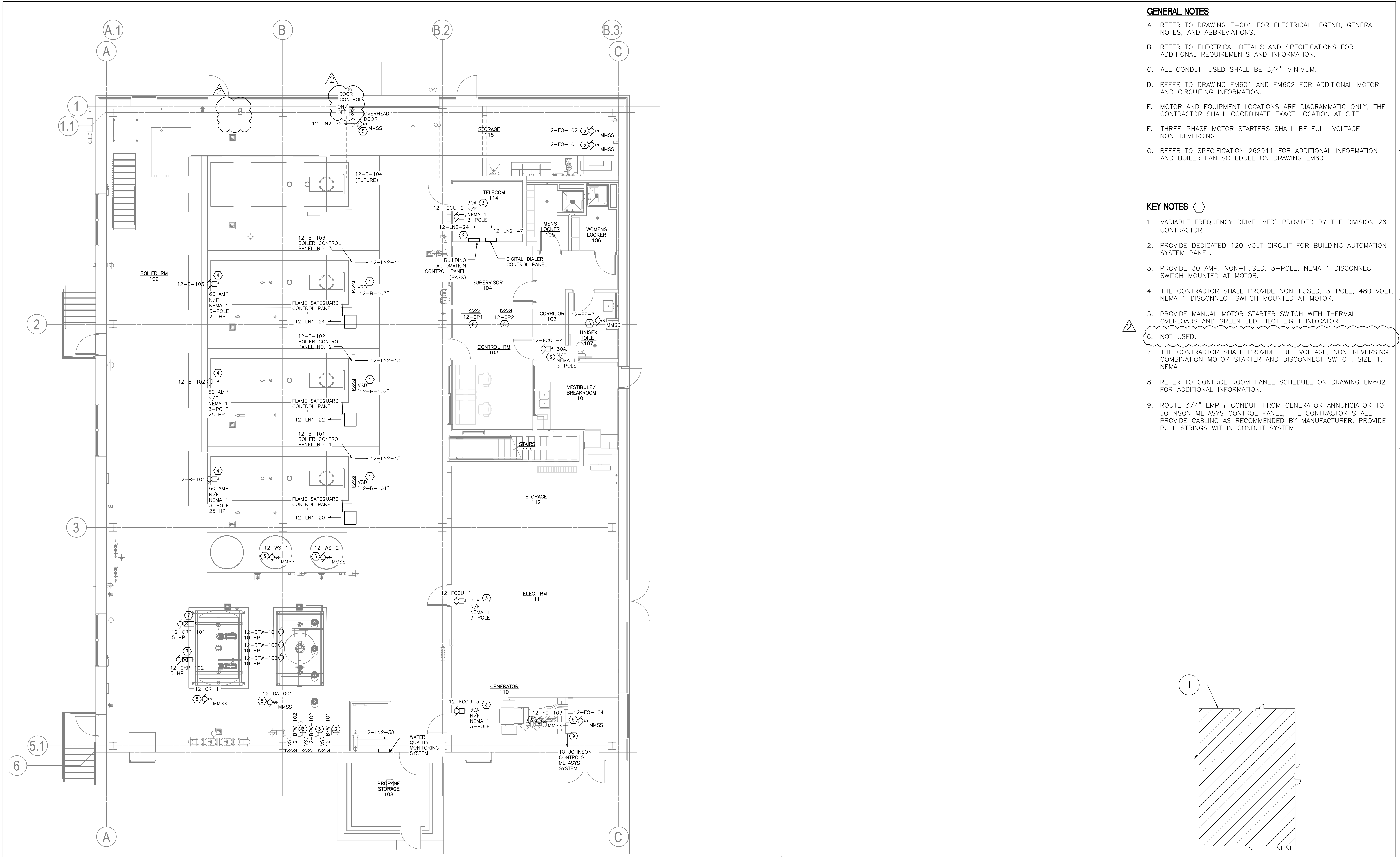
Revisions: _____ Date: _____	CONSULTANT	ARCHITECT/ENGINEER OF RECORD  Architecture Engineering Design-Build 9000 Weesax Place, Louisville, KY 40222 www.paradigmusa.com	STAMP 	Office of Construction and Facilities Management  U.S. Department of Veterans Affairs	Drawing Title LIGHTING CALCULATIONS BUILDING 2 EXTERIOR	Phase 100% CONSTRUCTION DOCUMENTS	Project Title SIOUX FALLS BOILER PLANT	Project Number 438-22-900 Building Number 12
	Approved: Project Director					FULLY SPRINKLERED	Location VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	Issue Date 06/25/2024

GENERAL NOTES

- A. REFER TO DRAWING E-001 FOR ELECTRICAL LEGEND, GENERAL NOTES, AND ABBREVIATIONS.
- B. REFER TO ELECTRICAL DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
- C. ALL CONDUIT USED SHALL BE 3/4" MINIMUM.
- D. REFER TO DRAWING EM601 AND EM602 FOR ADDITIONAL MOTOR AND CIRCUITING INFORMATION.
- E. MOTOR AND EQUIPMENT LOCATIONS ARE DIAGRAMMATIC ONLY, THE CONTRACTOR SHALL COORDINATE EXACT LOCATION AT SITE.
- F. THREE-PHASE MOTOR STARTERS SHALL BE FULL-VOLTAGE, NON-REVERSING.
- G. REFER TO SPECIFICATION 262911 FOR ADDITIONAL INFORMATION AND BOILER FAN SCHEDULE ON DRAWING EM601.

KEY NOTES

- 1. VARIABLE FREQUENCY DRIVE "VFD" PROVIDED BY THE DIVISION 26 CONTRACTOR.
- 2. PROVIDE DEDICATED 120 VOLT CIRCUIT FOR BUILDING AUTOMATION SYSTEM PANEL.
- 3. PROVIDE 30 AMP, NON-FUSED, 3-POLE, NEMA 1 DISCONNECT SWITCH MOUNTED AT MOTOR.
- 4. THE CONTRACTOR SHALL PROVIDE NON-FUSED, 3-POLE, 480 VOLT, NEMA 1 DISCONNECT SWITCH MOUNTED AT MOTOR.
- 5. PROVIDE MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOADS AND GREEN LED PILOT LIGHT INDICATOR.
- 6. NOT USED.
- 7. THE CONTRACTOR SHALL PROVIDE FULL VOLTAGE, NON-REVERSING, COMBINATION MOTOR STARTER AND DISCONNECT SWITCH, SIZE 1, NEMA 1.
- 8. REFER TO CONTROL ROOM PANEL SCHEDULE ON DRAWING EM602 FOR ADDITIONAL INFORMATION.
- 9. ROUTE 3/4" EMPTY CONDUIT FROM GENERATOR ANNUNCIATOR TO JOHNSON METASYS CONTROL PANEL, THE CONTRACTOR SHALL PROVIDE CABLING AS RECOMMENDED BY MANUFACTURER. PROVIDE PULL STRINGS WITHIN CONDUIT SYSTEM.



1 MOTOTR AND EQUIPMENT PLAN - FIRST FLOOR
SCALE 3/16" = 1'-0"

KEY PLAN - FIRST FLOOR
NOT TO SCALE

ADDENDUM 1 ADDENDUM 2 Revisions: Date:	08-09-2024 09-12-2024	CONSULTANT	ARCHITECT/ENGINEER OF RECORD Architecture Engineering Design-Build 9000 Weesee Place, Louisville, KY 40222 www.paradigmusa.com	STAMP 	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title MOTOR AND EQUIPMENT PLAN FIRST FLOOR	Phase 100% CONSTRUCTION DOCUMENTS	Project Title SIOUX FALLS BOILER PLANT	Project Number 438-22-900
						Approved: Project Director	FULLY SPRINKLERED	Location VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	Building Number 12
						Issue Date 06/25/2024	Checked WLM	Drawn KMB	Drawing Number EM101