ELECTRICAL SHEET INDEX

EXIT LIGHTING FIXTURE SCHEDULE

⊗		DUAL FACE THERMOPLASTIC EXIT SIGN/LIGHT WITH WHITE HOUSING AND RED LETTERS. PROVIDE DIRECTIONAL ARROWS AS INDICATED. PACO "PX" SERIES. PROVIDE FIXTURE WITH A 90 MINUTE BATTERY BACK UP.	-	-	-	-		UNIVERSAL	
⊗		SINGLE FACE THERMOPLASTIC EXIT SIGN/LIGHT WITH WHITE HOUSING AND RED LETTERS. PROVIDE DIRECTIONAL ARROWS AS INDICATED. PACO "PX" SERIES. PROVIDE FIXTURE WITH A 90 MINUTE BATTERY BACK UP.	-	-	-	-		UNIVERSAL	

WATTSTOPPER LP8 RELAY PANEL

Specifications:
Provide a single relay panel with up to 8 relays. Each relay to be individually scheduled through an easy to use integral clock with a backlit 8-line LCD display. Relays are to be SPST 20 Amp rated, mechanically held contactors capable of switching either 120 or 277VAC loads. Mounted next to each relay should be a LED to annunciate status and a pushbutton to toggle the relay's state. Panel shall have a multitap transformer and accept either 120V or 277V for power.

Panel enclosure to be NEMA 1, rated for environments from 32 - 139°F, 5 - 95% RH non-condensing. Panel to come with a split cover hinged in the center such that the high voltage side must be unscrewed to access the relays, but the low voltage side can be opened via a locking latch. Surface or flush covers shall be available.

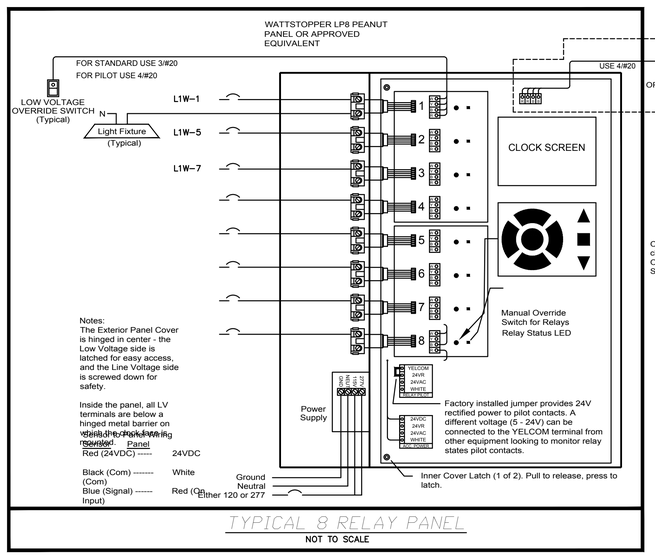
Each relay can be controlled remotely by external switches or motion detectors. Switches can be 2- or 3-wire, momentary or maintained low voltage devices. Motion detectors must provide a 24VDC pilot signal to control the relays. Panel must be able to interlock time based schedules with the occupancy sensor input, so that lights scheduled on during the day are not affected by the motion detector, but after hours the occupancy sensor has control of the relay. Panel shall be capable of blink warning before "OFF" and true after hours time delay.

All programming to be entered via a simple keypad. Each relay can be programmed independently, or relays can be grouped together in firmware to follow the same channel schedule. On a daily 7-day repeating basis, relays can be assigned to follow any of the following scenarios:

(1) Manual On / Sched Off
(2) Scheduled On/Off
(3) Manual ON / AS Switch Off (for use with AS-100 switches)
(4) Photocell On/Off
(5) Photo & Sched On/Off
(6) Astronomic On/Off
(7) Astro and Sched On/Off

The LCD screen should normally show the current time and date, as well as sunrise and sunset times for that day. Relay channels can also be monitored from the display to see their status - either ON, OFF, or MIXED. Additionally the relay groups can be overriden from the screen. Context sensitive help shall be available for each screen.

Panel to be The Watt Stopper's LP8 panel and must be UL Listed 916, meet local energy codes (California CEC), and have a 1 year warranty. Contact SESCO Lighting for more information, 954-474-9888.



TYPICAL 8 RELAY PANEL

NOT TO SCALE

Luminaire Schedule					
Symbol	Label	Description	Lum. Watts	LLF	Lum. Lumens
	A	INTENSE LTG#: SD4DR-L1-35-WF-IC430C-SFW MTD AT 8.5' AFF	9.8	0.001	896
	A2	INTENSE LTG#: SD4DR-L3-35-WF-IC430C-SFW / MTG PER PLAN	18.3	0.001	1788
	B	INTENSE LTG#: SD4DR-L3-35-WF-IC430C-SFW / MTG PER PLAN	18.3	0.001	1788
	B2	INTENSE LTG#: SD4DR-L1-35-FL-IC430W-SF / MTD AT 10' AFF	9.8	0.001	1051
	C	SCOTT ARCH#: S2B45-L72-35K-FINISH-OA / MTD AT 10' AFF	79	0.001	3945
	C1	SCOTT ARCH#: S2B45-L72-35K-FINISH-OA / MTD AT 12' AFF	79	0.001	3945
	C2	SCOTT ARCH#: S2B45-L72-35K-FINISH-OA / MTD AT 14' AFF	79	0.001	3945
	C3	SCOTT ARCH#: S2B45-L72-35K-FINISH-OA / MTD AT 16' AFF	79	0.001	3945
	D3	SCOTT ARCH#: S2792-D-L78-35K / MTD AT 12' AFF	80	0.001	3945
	D5	SCOTT ARCH#: S2792-D-L90-35K / MTD AT 9' AFF	90	0.001	4143
	D6	SCOTT ARCH#: S2792-D-L132-35K / MTD AT 9.5' AFF	132	0.001	6056
	D8	SCOTT ARCH#: S2792-D-L192-35K / MTD AT 10' AFF	192	0.001	8805
	F	SCOTT ARCH#: S2450-L14-35K-BA / MTD AT 9' AFF	18	0.001	1498
	G	SCOTT ARCH#: (3X)S2B45-L72-35K-FINISH-OA / MTD 10' - 16' AFF	79	0.001	3945
	H	HE WILLIAMS#: BP-22-LS-8CS-DIM-UNV-25W-35K / MTD AT 8.75' AFF	25	0.001	2969
	AE	INTENSE LTG#: SD4DR-L1-35-WF-IC430C-SFW-EM7 MTD AT 8.5' AFF	9.8	0.450	896
	A2E	INTENSE LTG#: SD4DR-L3-35-WF-IC430C-SFW-EM7 / MTG PER PLAN	18.3	0.350	1788
	BE	INTENSE LTG#: SD4DR-L3-35-WF-IC430C-SFW-EM7 / MTG PER PLAN	18.3	0.300	1788
	HE	HE WILLIAMS#: BP-22-LS-8CS-DIM-UNV-25W-35K-EM / MTD AT 8.75' AFF	25	0.250	2969
	WE	GARDCO#: GWS-A01-740-T4M-EM / WALL MTD AT 9' AFF	10.2	0.450	1714

ELECTRICAL SPECIFICATIONS

PART 1 – GENERAL

A. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL ARCHITECT/ENGINEER HAS DIRECTED CORRECTIVE ACTION TO BE TAKEN.
B. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF.
C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION) AND ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION. THE SPECIFICATION, CODES AND STANDARDS LISTED BELOW ARE UTILIZED IN THIS PROJECT.
   1. NATIONAL ELECTRICAL CODE (NFPA-70)
   2. CODE FOR SAFETY TO LIFE (NFPA_101)
   3. STANDARD FOR THE INSTALLATION, MAINTENANCE AND USE OF LOCAL PROTECTIVE SIGNALING SYSTEMS (NFPA-72)
   4. UNDERWRITERS' LABORATORIES (UL)
   5. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
   6. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
   7. FEDERAL SPECIFICATION (FED. SPEC.)
   8. INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
   9. FLORIDA BUILDING CODE. FBC 2023 EDITION
   10. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
   11. CITY OF PORT ST. LUCIE BUILDING CODE. (AMENDMENTS TO FLORIDA BUILDING CODE FBC 2023)
   12. ADDITIONALLY, DESIGNS, WORK PRACTICES AND CONDITIONS MUST CONFORM WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA)
D. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE.
E. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
F. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FROM A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
G. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THERE BY.
H. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS SHALL MEAN THAT THE CONTRACTOR IS TO FURNISH, INSTALL AND CONNECT COMPLETE.

PART 2 – PRODUCTS

A. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. (EXCEPT AS NOTED OTHERWISE FOR CONTROL WIRING). ALL CONDUCTORS SHALL BE 98% CONDUCTIVITY, COPPER WITH "THHN-THWN" INSULATION UNLESS OTHERWISE NOTED.
B. ELECTRICAL METALLIC TUBING (EMT) SHALL BE OF BEST QUALITY STEEL, SMOOTH INSIDE AND OUT AND SHALL BE HOT-DIPPED GALVANIZED.
C. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS
I. IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
D. RIGID NONMETALIC CONDUIT SHALL BE SCHEDULE 40 PVC.
E. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.
F. PANELBOARDS:
   1. CURRENT CARRYING BUSES SHALL BE COPPER. GROUND BUS BARS SHALL BE COPPER.
   2. ALL CIRCUIT BREAKERS SHALL BE BOLT ON. PLUG-IN BREAKERS ARE NOT ACCEPTABLE.
   3. CIRCUIT BREAKERS USED AS SWITCHES IN FLUORESCENT OR HID LIGHTING CIRCUITS SHALL BE LISTED AND MARKED "SWD"
   4. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE.
   5. A.I.C. RATINGS SHALL BE AS INDICATED ON PANELBOARD SCHEDULES.
   6. ALL PANELBOARDS SHALL BE FURNISHED WITH PLASTIC LAMINATE NAMEPLATES WITH 1/4" ENGRAVED LETTERING FOR PANEL IDENTIFICATION.
   7. ALL PANELBOARDS SHALL BE PROVIDED WITH TYPE-WRITTEN DIRECTORY OF BRANCH CIRCUIT DESIGNATIONS.
G. DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK. ENCLOSURES SHALL BE NEMA-1 FOR INDOOR LOCATIONS, NEMA 3R FOR OUTDOOR LOCATIONSOR AS OTHERWISE NOTED.
H. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC AS INDICATED ON THE ELECTRICAL DRAWINGS, WITH OVERLOAD RELAYS IN EACH PHASE.
WIRING DEVICES (GENERAL PURPOSE RECEPTACLES AND WALL SWITCHES) COLOR SHALL BE COORDINATED WITH CLIENT.

PART 3 – EXECUTION

A. COLOR CODING OF CONDUCTORS SHALL BE AS FOLLOWS:
   1. 208/120 VOLTS, 3 PHASE, 4-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BLACK, 1 RED AND 1 BLUE. GROUNDED (NEUTRAL) CONDUCTOR; WHITE. GROUNDING CONDUCTORS SHALL BE GREEN.
   2. 480/277 VOLT, 3-PHASE, 4-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BROWN, 1 YELLOW, AND 1 PURPLE. GROUNDED (NEUTRAL) CONDUCTORS; GREY. GROUNDING CONDUCTORS SHALL BE GREEN.
   3. BRANCH CIRCUIT WIRING (#6 AND SMALLER) SHALL BE COLOR CODED BY CONTINUOUS INSULATION COLOR AND FEEDERS AND SERVICES (#4 AND LARGER) SHALL BE CODED AT ALL JUNCTION OR PULL POINTS (EXCEPT LB'S OR LBD'S) USING COLOR MARKERS OR PLASTIC TAPE MANUFACTURED FOR THE PURPOSE.
I.
B. WIRING METHODS
   1. ALL CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE NOTED, SPECIFIED OR AS SPECIFICALLY PROHIBITED BY THE AUTHORITY HAVING JURISDICTION. ALL FITTINGS AND COUPLINGS FOR EMT CONDUIT SHALL BE ALL STEEL RAIN TIGHT COMPRESSION TYPE OR ALL STEEL CONCRETE TIGHT SET SCREW TYPE.
   2. SCHEDULE 40 PVC CONDUIT, WITH FITTINGS AND COUPLINGS APPROPRIATE FOR THE USE, SHALL BE INSTALLED UNDERGROUND OR BELOW SLABS ON GRADE.
   3. TYPE MC CABLE WITH ALUMINUM ARMOR AND INTERNAL GROUND IS ACCEPTABLE FOR USE AS GENERAL BRANCH CIRCUIT WIRING FOR CIRCUITS 20 AMPERES OR LESS AND CONCEALED IN WALLS OR ABOVE SUSPENDED CEILING AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
C. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE LATEST EDITION OF THE N.E.C. AND LOCAL CODES.
D. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
E. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
F. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES, AND SHALL BE FULLY COORDINATED WITH THEM PRIOR TO COMMENCEMENT OF WORK.
G. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, AND WIRING DEVICES, FOR ALL OUTLETS AS INDICATED.
H. MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF NEC, NEMA, AND IECE.
CONTRACTOR SHALL SUBMIT AT LEAST FIVE (5) SETS OF SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED OF HIS WORK.
K. ALL LAY-IN LIGHTING FIXTURES SHALL BE SECURED TO THE SUSPENDED CEILING GRID AT EACH CORNER.
L. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.
M. ALL ELECTRICAL POWER WIRING FOR THE HVAC SYSTEM INCLUDING WIRING THRU LINE VOLTAGE CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

N. THE CONTRACTOR SHALL CONFIRM WITH THE ELECTRICAL UTILITY COMPANY ANY AND ALL REQUIREMENTS SUCH AS: METERING EQUIPMENT REQUIREMENTS AND METERING EQUIPMENT LOCATION, TRANSFORMER SIZE AND LOCATION OR SERVICE POINT, CONDUIT ENTRY AND LUG SIZE RESTRICTIONS. THE CONTRACTOR SHALL SCHEDULE ALL REQUIRED DOWN TIME FOR THE OWNERS CONFIRMATION.
ANY CONFLICTS AND DESCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE
O. PROCEEDING WITH ANY WORK.
PER NEC 210.8(B)(2) ALL 15- AND 20-AMPERE, 125-VOLT RECEPTACLES IN NONDWELLING-TYPE KITCHENS TO BE GFCI PROTECTED.

P. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% DESIGN LOAD. FBC 2023 FBC ENERGY CONSERVATION SECTION 405.7.3.

Q. FEEDER CONDUCTORS SHALL BE SIZED FOR A MAXIMUM OF 2% VOLTAGE DROP PER 405.7.3.

ELECTRICAL LEGEND

▽	TELEPHONE OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
▼	DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
▽▼	TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNTED ABOVE COUNTER, SEE ARCHITECTURAL DRAWING FOR SPECIFIC REQUIREMENTS.
▼	TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
▽	TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT RUN TO THE NEAREST STUD WALL AND STUBBED OUT FROM WALL 6" ABOVE CEILING. PROVIDE BRASS COVER PLATE AND CARPET FLANGE.
	TELEVISION RECESSED OUTLET. LEGRAND "TV1WMTVSSWCC2". MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
	20 AMP SINGLE RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
	20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
	20 AMP QUADRUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
GFI	20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) WITH GROUND FAULT CIRCUIT INTERRUPTER, MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET. UNLESS NOTED OTHERWISE.
	20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED ABOVE COUNTER SEE ARCHITECTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS.
	20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) WITH ISOLATED GROUND, MOUNT AT 18" A.F.F. TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED.
	20 AMP QUADRUPLEX RECEPTACLE (NEMA 5-20R) WITH ISOLATED GROUND, MOUNT AT 18" A.F.F. TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED.
	20 AMP DUPLEX RECEPTACLE (NEMA 5-20R), RECESS FLOOR MOUNTED. PROVIDE BRASS COVER PLATE AND CARPET FLANGE.
	20 AMP DUPLEX RECEPTACLE (NEMA 5-20R), CEILING MOUNTED.
	SPECIAL-PURPOSE RECEPTACLE
J	JUNCTION BOX
J_P	SINGLE GANG JUNCTION BOX FOR POWER CONNECTION TO MODULAR FURNITURE SYSTEM INSTALL IN EXACT MANNER AS DIRECTED BY FURNITURE SUPPLIER.
$J_{T/D}$	DOUBLE GANG JUNCTION BOX FOR TELEPHONE/DATA CONNECTION TO MODULAR FURNITURE SYSTEM. INSTALL IN EXACT MANNER AND LOCATION AS DIRECTED BY FURNITURE SUPPLIER. EXTEND (2) 3/4" EMPTY CONDUITS FROM JUNCTION BOX TO ABOVE CEILING AND TERMINATE WITH INSULATING BUSHING 6" FROM WALL.
	LEGRAND EVOLUTION 4 SERIES FLOOR BOX FOR CONNECTION TO MODULAR FURNITURE. COORDINATE CONNECTION TYPE WITH FURNITURE VENDOR.
	TELE/POWER POLE FOR TELEPHONE/DATA/POWER CONNECTION TO MODULAR FURNITURE 8 WIRE SYSTEM (SEE DETAIL THIS SHEET). INSTALL IN EXACT MANNER AND LOCATION AS DIRECTED BY FURNITURE SUPPLIER, WIREMOLD CATALOG # 2SDTP-4D W/IVORY FINISH.
	SPECIAL PURPOSE RECEPTACLE MOUNTED BELOW RAISE FLOOR.
EF	EXHAUST FAN. SEE MECHANICAL DRAWINGS FOR SPECIFICATIONS.
$	SINGLE POLE, 20 AMP, SWITCH. MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.
$3	3-WAY, 20 AMP, SWITCH. MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.
$D	SINGLE POLE, 20 AMP, SWITCH WITH DIMMER. MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.
$M	MOTOR RATED SWITCH
$VS	VACANCY SENSOR SWITCH, WATTSTOPPER, MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.
$	TWO POLE, 30 AMP SWITCH. MOUNT ADJACENT EQUIPMENT TO BE CONTROLLED.
⊠	FACTORY MOUNTED DISCONNECT/STARTER (SEE MECHANICAL SCHEDULE)
A B C	FUSIBLE DISCONNECT SWITCH A = POLES, B= FRAME SIZE, C= FUSE RATING
A B C	FUSIBLE MOTOR STARTER DISCONNECT SWITCH A = POLES, B= NEMA SIZE, C= FUSE RATING
	GROUNDING ELECTRODE & CONDUCTOR SYSTEM
V	TRANSFORMER
	ELECTRICAL PANELBOARD
	TELEPHONE WOOD BACKBOARD
WP	WEATHERPROOF
T/C	TIME CLOCK
RE	RELOCATED
E	EXISTING TO REMAIN
A.F.F.	ABOVE FINISH FLOOR
	CEILING MOUNTED DUAL TECHNOLOGY MOTION SENSOR BY WATTSTOPPER.
LV	CEILING MOUNTED LOW VOLTAGE DUAL TECHNOLOGY MOTION SENSOR BY WATTSTOPPER.
DS	CEILING MOUNTED DAY LIGHTING SENSOR. SENSOR TO CONTROL THE DIMMING OF ALL FIXTURES WITHIN 15' OF THE WINDOWS WITH IN ROOM.
CR	CARD READER. COORDINATE LOW VOLTAGE REQUIREMENTS WITH CONTRACTOR.

NO.	REVISION	DATE
PERMIT SET		06/28/2024

CONSULTANT:

Port St. Lucie City Hall
121 SW Port St. Lucie Blvd.
Building A, Port St. Lucie, FL 34984

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8325
AA #26000685 WWW.CPZARCHITECTS.COM

DRAWING TITLE:

ELECTRICAL NOTES

DRAWN	TJ
CHECKED	LS
DATE	05.31.24
SCALE	AS NOTED
PRJCT #	1960P
SHEET:	

E0.1

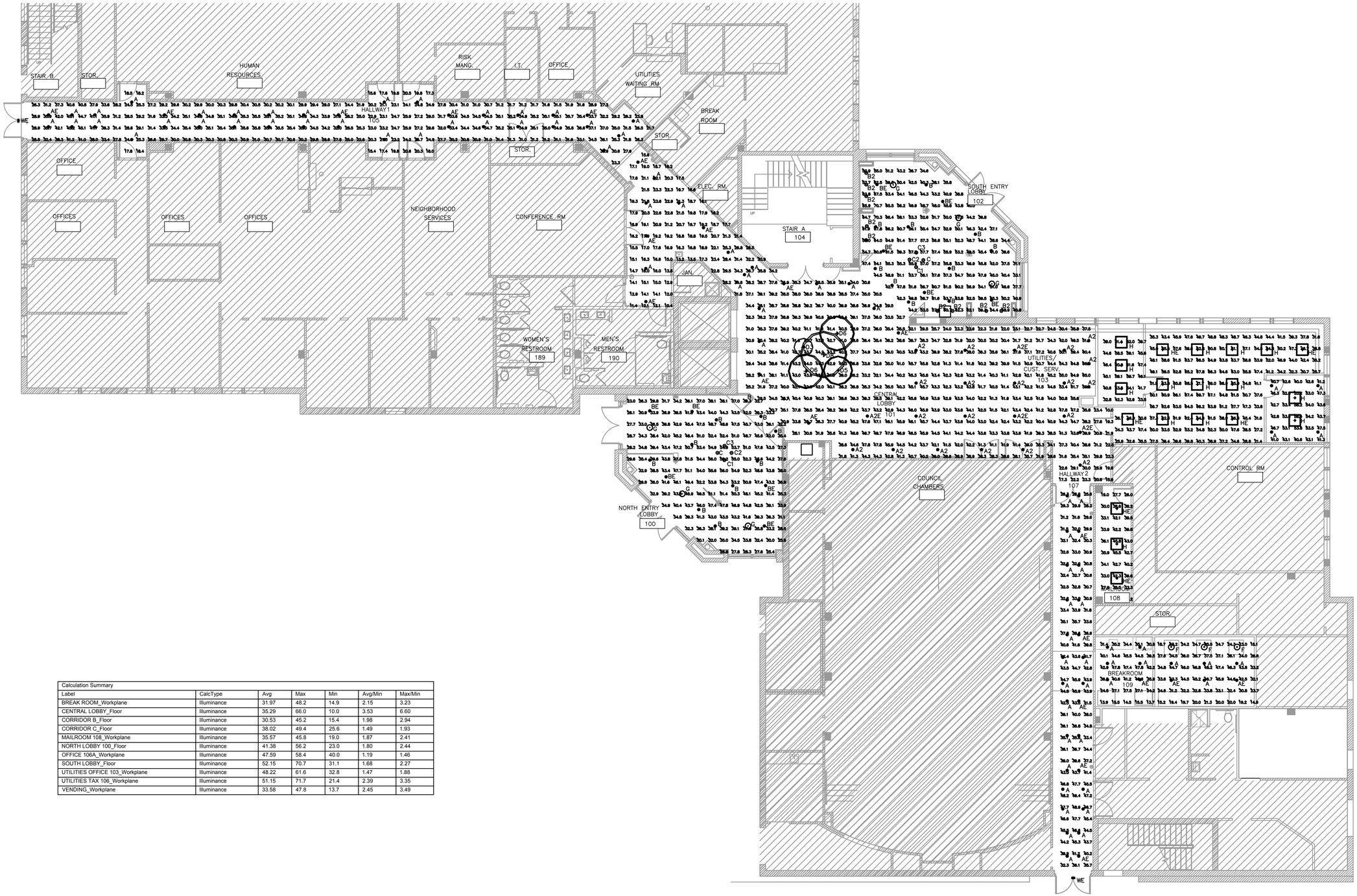
ISSUED FOR PERMIT 6-28-2024
NOT FOR PRICING OR CONSTRUCTION

KAMM CONSULTING PROJECT #: 2023-0408
PROJECT MANAGER: JOHN MAYR

KAMM Consulting
1408 Orange Avenue
Fort Pierce, Florida 34950
Phone 954-448-0792
JMAYR@kammconsulting.com
Certification of Authorization #8189

PRINCIPAL
Bradly L Brown Florida License #58232 07-08-24
date
signed

Bradly Brown
2024.07.08 18:51:48-04'00'



Calculation Summary						
Label	CalcType	Avg	Max	Min	Avg/Min	Max/Min
BREAK ROOM_Workplane	Illuminance	31.97	48.2	14.9	2.15	3.23
CENTRAL LOBBY_Floor	Illuminance	35.29	66.0	10.0	3.53	6.60
CORRIDOR B_Floor	Illuminance	30.53	45.2	15.4	1.98	2.94
CORRIDOR C_Floor	Illuminance	38.02	49.4	25.6	1.49	1.93
MAILROOM 108_Workplane	Illuminance	35.57	45.8	19.0	1.87	2.41
NORTH LOBBY 100_Floor	Illuminance	41.38	56.2	23.0	1.80	2.44
OFFICE 106A_Workplane	Illuminance	47.59	58.4	40.0	1.19	1.46
SOUTH LOBBY_Floor	Illuminance	52.15	70.7	31.1	1.68	2.27
UTILITIES OFFICE 103_Workplane	Illuminance	48.22	61.6	32.8	1.47	1.88
UTILITIES TAX 106_Workplane	Illuminance	51.15	71.7	21.4	2.39	3.35
VENDING_Workplane	Illuminance	33.58	47.8	13.7	2.45	3.49

PHOTOMETRIC PLAN

1/8"=1'-0" NORTH

NO.	REVISION	DATE
	PERMIT SET	06/28/2024

CONSULTANT:

Port St. Lucie City Hall
121 SW Port St. Lucie Blvd.
Building A, Port St. Lucie, FL 34984

CPZ ARCHITECTS, INC.
431A WEST BROWARD BOULEVARD
FORT LAUDERDALE, FLORIDA 33317
PHONE: (954) 792-8552
AA #26000685 WWW.CPZARCHITECTS.COM

DRAWING TITLE:

PHOTOMETRIC PLAN

DRAWN	TJ
CHECKED	LS
DATE	05.31.24
SCALE	AS NOTED
PRJCT #	1960P
SHEET:	E1.1

ISSUED FOR PERMIT	6-28-2024
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KAMM CONSULTING PROJECT #: 2023-0408
PROJECT MANAGER: JOHN MAYR

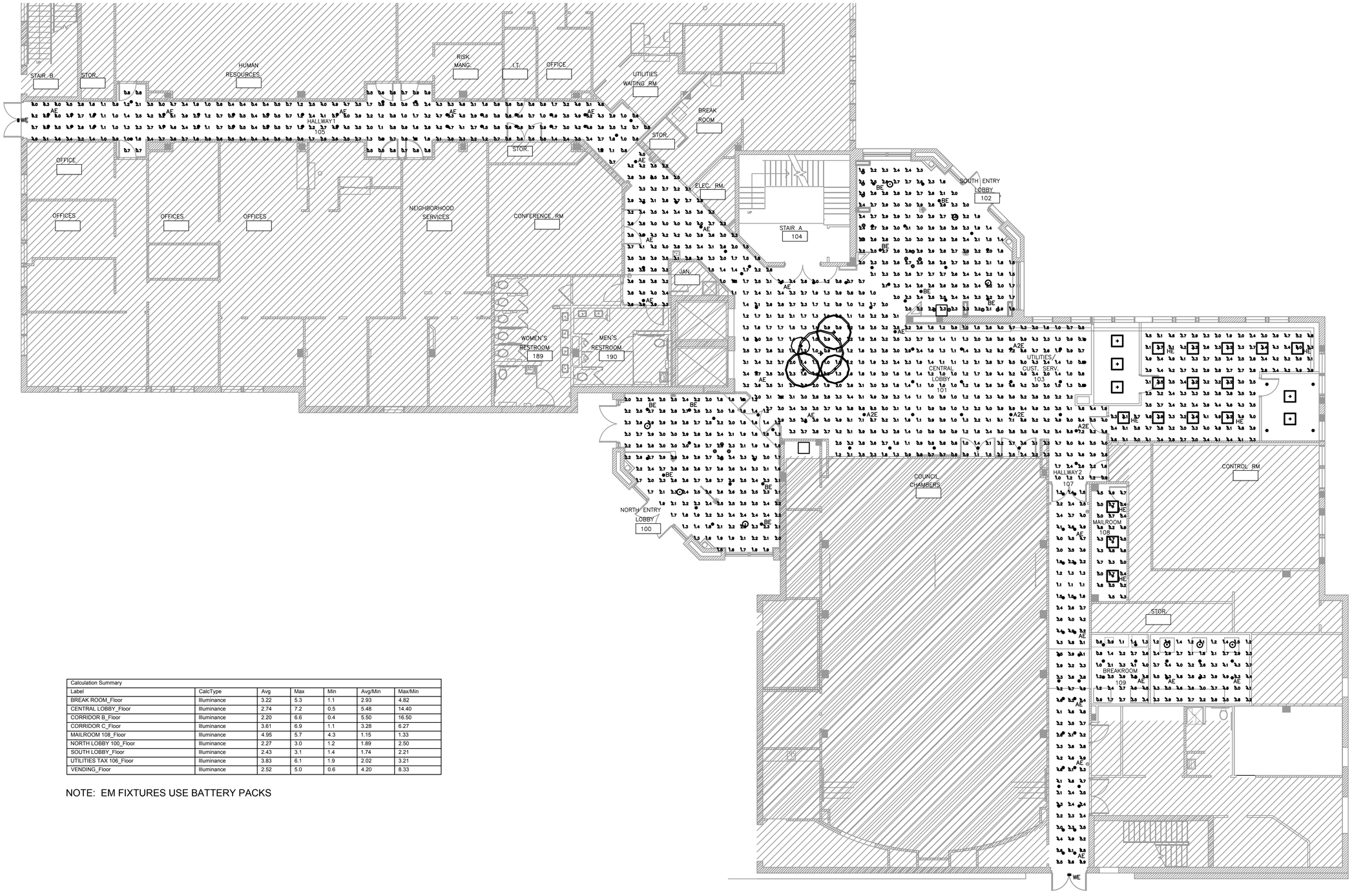
KAMM Consulting
1408 Orange Avenue
Fort Pierce, Florida 34950
Phone 954-448-0792
JMAYR@kammconsulting.com
Certification of Authorization #8189

PRINCIPAL
Bradly L Brown Florida License #58232

07-08-24
date

signed

Bradly Brown
2024.07.08 18:51:51-04'00'



Calculation Summary						
Label	CalcType	Avg	Max	Min	Avg/Min	Max/Min
BREAK ROOM_Floor	Illuminance	3.22	5.3	1.1	2.93	4.82
CENTRAL LOBBY_Floor	Illuminance	2.74	7.2	0.5	5.48	14.40
CORRIDOR B_Floor	Illuminance	2.20	6.6	0.4	5.50	16.50
CORRIDOR C_Floor	Illuminance	3.61	6.9	1.1	3.28	6.27
MAILROOM 108_Floor	Illuminance	4.95	5.7	4.3	1.15	1.33
NORTH LOBBY 100_Floor	Illuminance	2.27	3.0	1.2	1.89	2.50
SOUTH LOBBY_Floor	Illuminance	2.43	3.1	1.4	1.74	2.21
UTILITIES TAX 106_Floor	Illuminance	3.83	6.1	1.9	2.02	3.21
VENDING_Floor	Illuminance	2.52	5.0	0.6	4.20	8.33

NOTE: EM FIXTURES USE BATTERY PACKS

EMERGENCY PHOTOMETRIC PLAN

1/8"=1'-0" NORTH

NO.	REVISION	DATE
PERMIT SET		06/28/2024

CONSULTANT:

Port St. Lucie City Hall
121 SW Port St. Lucie Blvd.
Building A, Port St. Lucie, FL 34984

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
FORT LAUDERDALE, FLORIDA 33317
PHONE: (954) 792-8552
AA #26000685 WWW.CPZARCHITECTS.COM

DRAWING TITLE:

PHOTOMETRIC PLAN EMERGENCY

DRAWN	TJ
CHECKED	LS
DATE	05.31.24
SCALE	AS NOTED
PRJCT #	1960P
SHEET:	

E1.2

ISSUED FOR PERMIT	6-28-2024
NOT FOR PRICING OR CONSTRUCITON	

KAMM CONSULTING PROJECT #: 2023-0408
PROJECT MANAGER: JOHN MAYR

KAMM Consulting
1408 Orange Avenue
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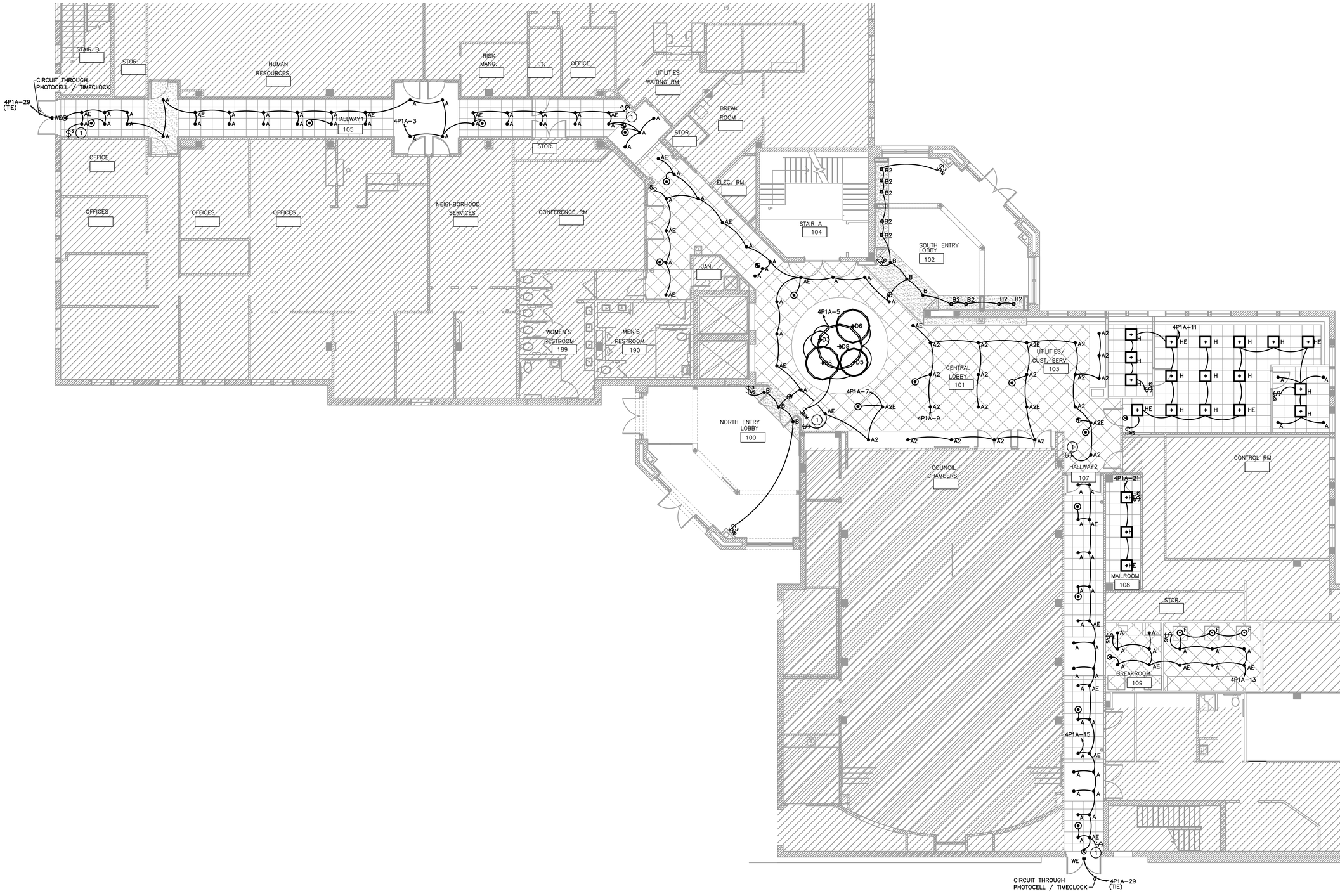
JMAYR@kammconsulting.com
Certification of Authorization #8189

PRINCIPAL
Bradly L Brown Florida License #58232

07-08-24
date

signed

Bradly Brown
2024.07.08 18:51:53-04'00'



1ST FLOOR LIGHTING PLAN

1/8"=1'-0" NORTH

KEY NOTE

1. ELECTRICAL CONTRACTOR TO PROVIDE OVERRIDE SWITCH.

Bradly Brown
2024.07.08 18:51:56-04'00'

NO.	REVISION	DATE
	PERMIT SET	06/28/2024

CONSULTANT:

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DRAWING TITLE:

LIGHTING PLAN

DRAWN	TJ
CHECKED	LS
DATE	05.31.24
SCALE	AS NOTED
PRJCT #	1960P
SHEET:	

E2.1

ISSUED FOR PERMIT	6-28-2024
NOT FOR PRICING OR CONSTRUCITON	

KAMM CONSULTING PROJECT #: 2023-0408
PROJECT MANAGER: JOHN MAYR

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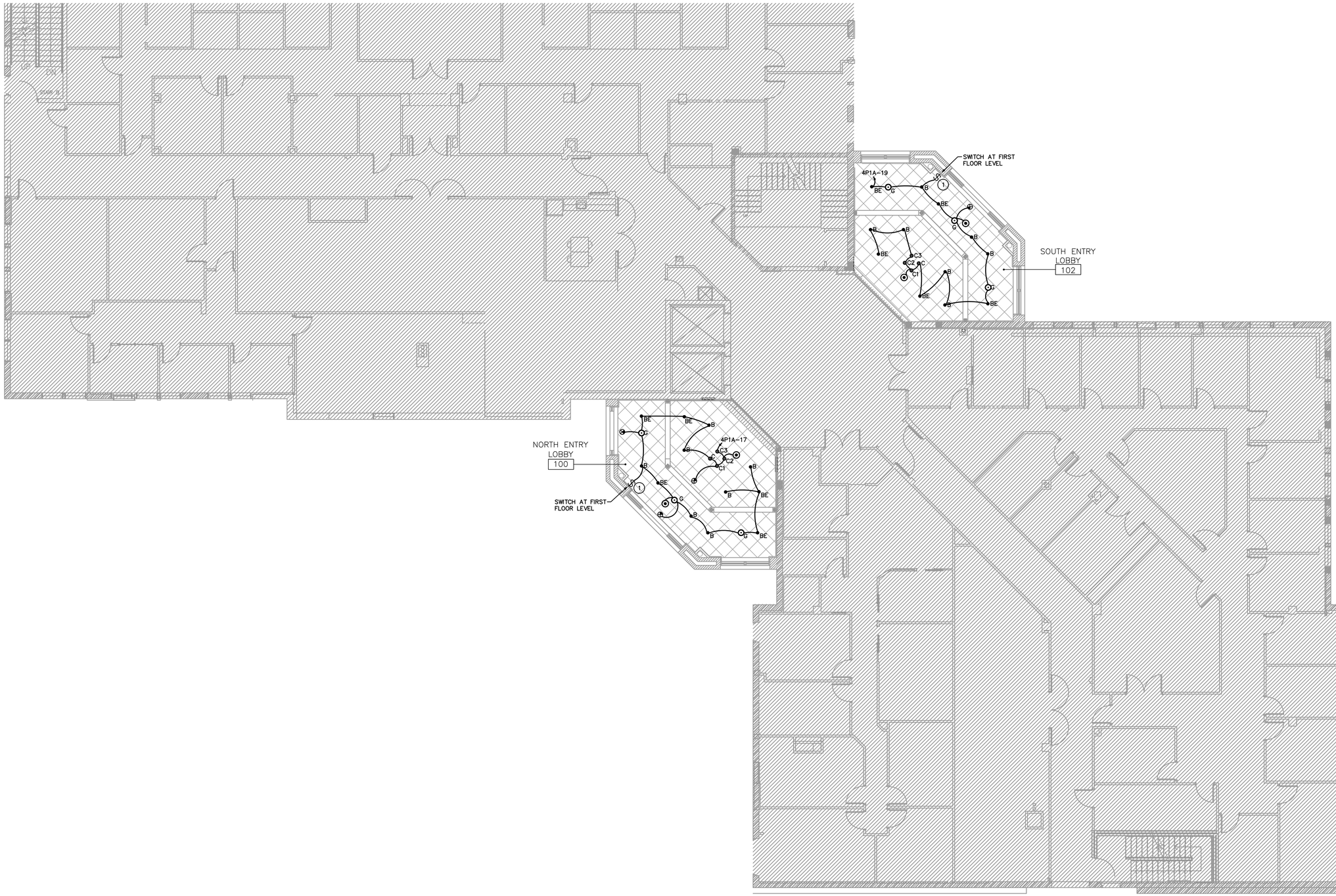

2ND FLOOR LIGHTING PLAN

1/8"=1'-0" NORTH

KEY NOTE

1. ELECTRICAL CONTRACTOR TO PROVIDE OVERRIDE SWITCH.

Bradly Brown
2024.07.08 18:51:58-04'00'

NO.	REVISION	DATE
	PERMIT SET	06/28/2024

CONSULTANT:

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DRAWING TITLE:

SECOND FLOOR LIGHTING PLAN

DRAWN	TJ
CHECKED	LS
DATE	05.31.24
SCALE	AS NOTED
PRJCT #	1960P
SHEET:	

E2.2

ISSUED FOR PERMIT 6-28-2024
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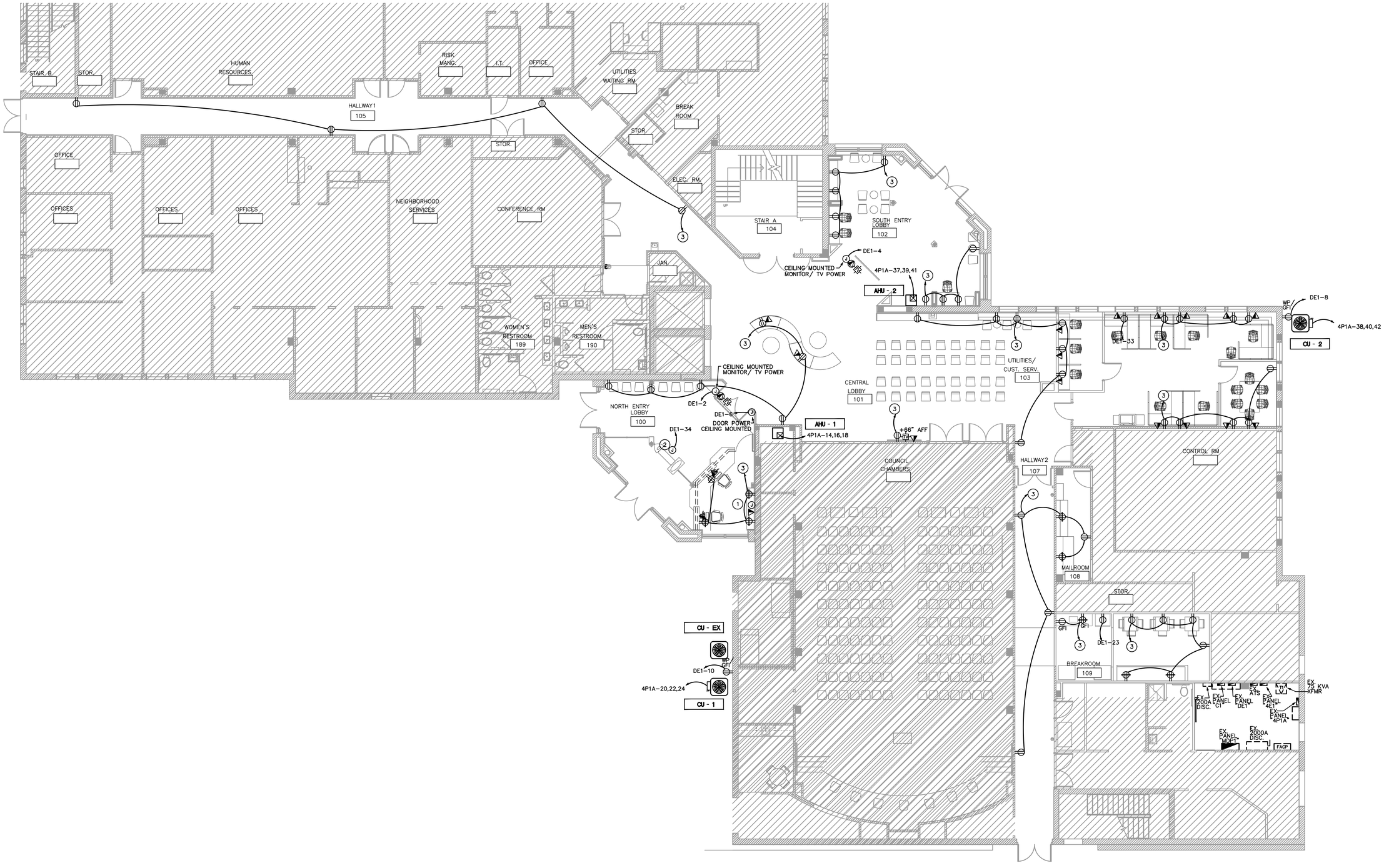
date

signed



1ST FLOOR POWER PLAN

1/8"=1'-0" NORTH

KEY NOTES

1. ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX FOR PUSH BUTTON DOOR RELEASE. FIELD VERIFY EXACT MOUNTING HEIGHT & LOCATION WITH OWNER PRIOR TO ROUGH- IN.
2. ELECTRICAL CONTRACTOR TO PROVIDE POWER FOR METAL DETECTOR. INSTALL PER MANUFACTURES RECOMMENDATIONS.
3. TIE TO EXISTING CIRCUIT.

NO.	REVISION	DATE
	PERMIT SET	06/28/2024

CONSULTANT:

Port St. Lucie City Hall
121 SW Port St. Lucie Blvd.
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PHONE: (954) 792-8252 WWW.CPZARCHITECTS.COM
AA 0026006685

DRAWING TITLE:

POWER PLAN
1ST FLOOR

DRAWN	TJ
CHECKED	LS
DATE	05.31.24
SCALE	AS NOTED
PRJCT #	1960P

SHEET:

E3.1

ISSUED FOR PERMIT 6-28-2024
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KAMM CONSULTING PROJECT #: 2023-0408
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PRINCIPAL
Bradly L Brown Florida License #58232 07-08-24 date

signed

Bradly Brown
2024.07.08 18:52:00-04'00'

SCHEDULE OF EXISTING DISTRIBUTION PANEL "MDP1"

MAIN: 2000 AMP / 3 POLE, MAIN CIRCUIT BREAKER — VOLTAGE: 480/277V, 3ø, 4 WIRE
SPEC: EXISTING — AIC SYMM: EXISTING

DESIGNATION	DESCRIPTION		CIRCUIT BREAKER FRAME	CIRCUIT BREAKER TRIP	CIRCUIT BREAKER POLES	FEEDER	A PHASE KVA	B PHASE KVA	C PHASE KVA	NOTES
MDP1-1	EXISTING CIRCUIT	*	–	350	3	–	77.6	77.6	77.6	
MDP1-2	EXISTING CIRCUIT	*	–	400	3	–	–	–	–	
MDP1-3	EXISTING CIRCUIT	*	–	400	3	–	50.1	50.1	50.1	
MDP1-4	EXISTING CIRCUIT	*	–	400	3	–	50.1	50.1	50.1	
MDP1-5	SPARE		–	–	–	–	–	–	–	
MDP1-6	EXISTING CIRCUIT	*	–	400	3	–	50.1	50.1	50.1	
MDP1-7	EXISTING CIRCUIT	*	–	400	3	–	50.1	50.1	50.1	
MDP1-8	EXISTING CIRCUIT	*	–	400	3	–	–	–	–	
MDP1-10	EXISTING CIRCUIT	*	–	350	3	–	77.6	77.6	77.6	
MDP1-11	EXISTING CIRCUIT	*	–	100	3	–	6.0	7.6	6.2	
MDP1-12	EXISTING CIRCUIT	*	–	125	3	–	–	–	–	
MDP1-13	EXISTING CIRCUIT	*	–	200	3	–	9.0	9.4	9.3	
MDP1-14	EXISTING CIRCUIT	*	–	125	3	–	–	–	–	
MDP1-15	EXISTING CIRCUIT	*	–	200	3	–	–	–	–	
MDP1-16	–		–	–	–	–	–	–	–	
MDP1-17	–		–	–	–	–	–	–	–	
MDP1-18	–		–	–	–	–	–	–	–	
MDP1-19	–		–	–	–	–	–	–	–	
MDP1-20	EXISTING CIRCUIT	*	–	200	3	–	–	–	–	
MDP1-21	EXISTING CIRCUIT	*	–	200	3	–	–	–	–	
MDP1-22	EXISTING CIRCUIT	*	–	200	3	–	–	–	–	
MDP1-23	EXISTING CIRCUIT	*	–	125	3	–	–	–	–	
MDP1-24	EXISTING CIRCUIT	*	–	30	3	–	–	–	–	
							370.6	372.6	369.8	KVA PER PHASE
							1338	1342	1335	AMPS PER PHASE
								1097.4		TOTAL KVA

* EXISTING CIRCUIT TO REMAIN.

SCHEDULE OF EXISTING BRANCH CIRCUIT PANEL "4P1A"

MAIN: 250 AMP / 3 POLE MLO — VOLTAGE: 480/277V, 3ø, 4 WIRE
SPEC: EXISTING
MOUNTING: EXISTING — AIC SYMM: EXISTING

DESCRIPTION		WIRE	GND.	COND.	TRIP	CKT.	A PHASE KVA	B PHASE KVA	C PHASE KVA	CKT.	TRIP	COND.	GND.	WIRE	DESCRIPTION	
EXISTING CIRCUIT	*	–	–	–	20	1	0.4 | 0.4			2	30	–	–	–	EXISTING CIRCUIT	*
LIGHTING		#12	#12	1/2"	20	3		0.8 | 0.4		4	30	–	–	–	EXISTING CIRCUIT	*
LIGHTING		#12	#12	1/2"	20	5			1.0 | 0.4	6	30	–	–	–	EXISTING CIRCUIT	*
LIGHTING		#12	#12	1/2"	20	7	0.8 | 0.4			8	30	–	–	–	EXISTING CIRCUIT	*
LIGHTING		#12	#12	1/2"	20	9		0.8 | 0.4		10	30	–	–	–	EXISTING CIRCUIT	*
LIGHTING		#12	#12	1/2"	20	11			0.8 | 0.4	12	30	–	–	–	EXISTING CIRCUIT	*
LIGHTING		#12	#12	1/2"	20	13	0.8 | 1.8			14	20	1/2"	1#12	3#12	AHU-1	
LIGHTING		#12	#12	1/2"	20	15		0.8 | 1.8		16						
LIGHTING		#12	#12	1/2"	20	17			0.8 | 1.8	18	3					
LIGHTING		#12	#12	1/2"	20	19	0.8 | (1.8)			20	20	1/2"	1#12	3#12	CU-1	
LIGHTING		#12	#12	1/2"	20	21		0.8 | (1.8)		22						
LIGHTING		#12	#12	1/2"	20	23			1.0 | (1.8)	24	3					
LIGHTING		#12	#12	1/2"	20	25	1.0 | –			26	20	–	–	–	SPARE	
LIGHTING		#12	#12	1/2"	20	27		1.0 | –		28	20	–	–	–	SPARE	
LIGHTING		#12	#12	1/2"	20	29			0.5 | –	30	20	–	–	–	SPARE	
EXISTING CIRCUIT	*	–	–	–	60	31	0.4 | 0.4			32	60	–	–	–	EXISTING CIRCUIT	*
					3	33		0.4 | 0.4		34	3					*
						35			0.4 | 0.4	36						*
AHU-2		3#12	1#12	1/2"	20	37	1.8 | (1.8)			38	20	1/2"	1#12	3#12	CU-2	
					3	39		1.8 | (1.8)		40	3					
						41			1.8 | (1.8)	42						
							9.0	9.4	9.3	KVA PER PHASE						
							32.5	33.6	32.9	AMPS PER PHASE						
								27.7		TOTAL KVA						

* EXISTING CIRCUIT TO REMAIN.

SCHEDULE OF EXISTING BRANCH CIRCUIT PANEL "DE1"

MAIN: 100 AMP / 3 POLE MAIN CIRCUIT BREAKER — VOLTAGE: 208/120V, 3ø, 4 WIRE
SPEC: EXISTING
MOUNTING: EXISTING — AIC SYMM: EXISTING

DESCRIPTION		WIRE	GND.	COND.	TRIP	CKT.	A PHASE KVA	B PHASE KVA	C PHASE KVA	CKT.	TRIP	COND.	GND.	WIRE	DESCRIPTION	
EXISTING CIRCUIT	*	–	–	–	20	1	0.4 | 0.8			2	20	1/2"	#12	#12	JUNCTION BOX TV POWER	
EXISTING CIRCUIT	*	–	–	–	20	3		0.4 | 0.8		4	20	1/2"	#12	#12	JUNCTION BOX TV POWER	
EXISTING CIRCUIT	*	–	–	–	20	5			0.4 | 0.8	6	20	1/2"	#12	#12	JUNCTION BOX DOOR POWER	
EXISTING CIRCUIT	*	–	–	–	20	7	0.4 | 0.8			8	20	1/2"	#12	#12	EXTERIOR SERVICE RECEPTACLE	
EXISTING CIRCUIT	*	–	–	–	20	9		0.4 | 0.8		10	20	1/2"	#12	#12	EXTERIOR SERVICE RECEPTACLE	
EXISTING CIRCUIT	*	–	–	–	20	11			0.4 | 0.4	12	20	–	–	–	EXISTING CIRCUIT	*
EXISTING CIRCUIT	*	–	–	–	20	13	0.4 | 0.4			14	20	–	–	–	EXISTING CIRCUIT	*
EXISTING CIRCUIT	*	–	–	–	20	15		0.4 | 0.4		16	20	–	–	–	EXISTING CIRCUIT	*
EXISTING CIRCUIT	*	–	–	–	20	17			0.4 | 0.4	18	20	–	–	–	EXISTING CIRCUIT	*
EXISTING CIRCUIT	*	–	–	–	20	19	0.4 | 0.4			20	20	–	–	–	EXISTING CIRCUIT	*
EXISTING CIRCUIT	*	–	–	–	20	21		0.4 | 0.4		22	20	–	–	–	EXISTING CIRCUIT	*
REFRIGERATOR		#12	#12	1/2"	20	23			1.0 | 0.4	24	20	–	–	–	EXISTING CIRCUIT	*
EXISTING CIRCUIT	*	–	–	–	20	25	0.4 | 0.4			26	20	–	–	–	EXISTING CIRCUIT	*
EXISTING CIRCUIT	*	–	–	–	20	27		0.4 | 0.4		28	20	–	–	–	EXISTING CIRCUIT	*
EXISTING CIRCUIT	*	–	–	–	20	29			0.4 | 0.4	30	20	–	–	–	EXISTING CIRCUIT	*
EXISTING CIRCUIT	*	–	–	–	20	31	0.4 | 0.4			32	20	–	–	–	EXISTING CIRCUIT	*
COPIER		#12	#12	1/2"	20	33		1.2 | 1.2		34	20	1/2"	#12	#12	METAL DETECTOR	
EXISTING CIRCUIT	*	–	–	–	20	35			0.4 | 0.4	36	50	–	–	–	EXISTING CIRCUIT	*
EXISTING CIRCUIT	*	–	–	–	100	37	– | 0.4			38	2					
					3	39		– | 0.4		40	60	–	–	–	EXISTING CIRCUIT	*
						41			– | 0.4	42	2					
NEW HAND DRYER –RESTROOM		#12	#12	1/2"	20	43	0.8 | 0.8			44	20	1/2"	#12	#12	NEW HAND DRYER –RESTROOM	
NEW HAND DRYER –RESTROOM		#12	#12	1/2"	20	45		0.8 | 0.8		46	20	1/2"	#12	#12	NEW HAND DRYER –RESTROOM	
NEW HAND DRYER –RESTROOM		#12	#12	1/2"	20	47			0.8 | 0.8	48	20	1/2"	#12	#12	NEW HAND DRYER –RESTROOM	
							7.6	9.2	7.8	KVA PER PHASE						
							63	76.6	65	AMPS PER PHASE						
								24.6		TOTAL KVA						

* EXISTING CIRCUIT TO REMAIN.

NO.	REVISION	DATE
	PERMIT SET	06/28/2024

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AA #26000685

DRAWING TITLE:

PANEL SCHEDULES

DRAWN	TJ
CHECKED	LS
DATE	05.31.24
SCALE	AS NOTED
PRJCT #	1960P
SHEET:	E5.1

ISSUED FOR PERMIT 6-28-2024
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KAMM CONSULTING PROJECT #: 2023-0408
PROJECT MANAGER: JOHN MAYR

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