LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	TOTAL WATTS	LAMPS NO.	LAMPS WATTS	LAMPS TYPE	VOLTAGE	MOUNTING	NOTES
A	2X2 COMMERCIAL SERIES LED TROFFER WITH MATTE FINISH, 3,200 LUMENS, 3,500K DESIGN SELECTION: CREE #ZR22C-32L-35K-10V-FD	26	1	26	LED	120/277	RECESSED	-
AE	SAME AS LIGHT FIXTURE TYPE 'A' EXCEPT PROVIDED WITH A 1,400 LUMEN INTEGRAL EMERGENCY BATTERY PACK. DESIGN SELECTION: CREE #ZR22C-32L-35K-10V-FD-EB14	26	1	26	LED	120/277	RECESSED	-
B	2X4 COMMERCIAL SERIES LED TROFFER WITH MATTE FINISH, 4,000 LUMENS, 3,500K. DESIGN SELECTION: CREE #ZR24C-40L-35K-10V-FD	32	1	32	LED	120/277	RECESSED	-
BE	SAME AS LIGHT FIXTURE TYPE 'B' EXCEPT PROVIDED WITH A 1,400 LUMEN INTEGRAL EMERGENCY BATTERY PACK. DESIGN SELECTION: CREE #ZR24C-40L-35K-10V-FD-EB14	32	1	32	LED	120/277	RECESSED	-
BF	2X4 COMMERCIAL SERIES LED TROFFER WITH MATTE FINISH, 4,000 LUMENS, 3,500K AND DRYWALL ADAPTER DESIGN SELECTION: CREE #ZR24C-40L-35K-10V-FD-DGA24-WHT	32	1	32	LED	120/277	RECESSED	-
BFE	SAME AS LIGHT FIXTURE TYPE 'B' EXCEPT PROVIDED WITH A 1,400 LUMEN INTEGRAL EMERGENCY BATTERY PACK. DESIGN SELECTION: CREE #ZR24C-40L-35K-10V-FD-EB14-DGA24-WHT	32	1	32	LED	120/277	RECESSED	-
C	4 FT LED LINEAR SUSPENDED FIXTURE, WET LOCATION LISTED, DIMMING CAPABILITIES DESIGN SELECTION: PRECISION ARCHITECTURAL LIGHTING #ML5WL-D-HO-K30-4-P(SPECIFY STEM LENGTH)-LOH-FOTM-TF-UNV-DM10	41	1	41	LED	120/277	SUSPENDED	
CE	4 FT LED LINEAR SUSPENDED FIXTURE, WET LOCATION LISTED, DIMMING CAPABILITIES, EMERGENCY BATTERY DESIGN SELECTION: PRECISION ARCHITECTURAL LIGHTING #ML5WL-D-HO-K30-4-P(SPECIFY STEM LENGTH)-LOH-FOTM-TF-UNV-EBPHST-DM10	41	1	41	LED	120/277	SUSPENDED	
C1	4 FT LINEAR SUSPENDED FIXTURE WITH ASYMMETRIC DISTRIBUTION, WET LOCATION LISTED, DIMMING CAPABILITIES DESIGN SELECTION: PRECISION ARCHITECTURAL LIGHTING #ML5MLASY-D-HO-K30-4-W-FLA-FOTM-(PER PLANS)-UNV-DM10	41	1	X	LED	120/277	WALL	
D	6" LED RECESSED CAN WET LOCATION RATED, 0-10V DIMMING DESIGN SELECTION:ATLANTIC LIGHTING #LED6-SYL30-35K-U/BLEDPR-SS	34	1	34	LED	120/277	RECESSED	
DE	6" LED RECESSED CAN WET LOCATION RATED, 0-10V DIMMING W/ EMERGENCY BATTERY DESIGN SELECTION: ATLANTIC LIGHTING #LED6-SYL30-35K-U-LEM/BLEDPR-SS	34	1	34	LED	120/277	RECESSED	
D2	4" LED RECESSED CAN, 1100LUMEN, SEMI-SPECULAR TRIM WITH 0-10VOLT DIMMING DESIGN SELECTION:ATLANTIC LIGHTING #LED4-DFX11-3K-U /#LED10-SS	11	1	11	LED	120	RECESSED	
D2E	4" LED RECESSED CAN, 1100 LUMEN, SEMI-SPECULAR TRIM WITH 0-10VOLT DIMMING, INTERGRAL EMERGENCY BATTERY WITH TEST SWITCH DESIGN SELECTION: ATLANTIC LIGHTING #LED4-DFX11-3K-U-LEM /#LED10-SS	11	1	11	LED	120	RECESSED	
F	4' LED SURFACE AMBIENT SURFACE DAMP LOCATION RATED. WITH 0-10V DIMMING DESIGN SELECTION: CREE #LS4C-40L-35K-FD	30	1	30	LED	120/277	RECESSED	
FE	4' LED SURFACE AMBIENT SURFACE DAMP LOCATION RATED. WITH 0-10V DIMMING, W/ EMERGENCY BATTERY DESIGN SELECTION: CREE #LS4C-40L-35K-FD-EM14	30	1	30	LED	120/277	RECESSED	
J	LED CEILING PENDANT FIXTURE DESIGN SELECTION: DWELED #PD-33753-WT	169	1	169	LED	120/277	PENDANT	
L	EXTERIOR LED WALL MOUNT LUMINAIRE DESIGN SELECTION: CREE #XSPW-B-WW-6ME-R-30K-UL	33	1	33	LED	120/277	SUSPENDED	
K	SLIM PROFILE COVE LIGHTING WITH 10FT STARTER CABLE DESIGN SELECTION: TRAXON #MB.CC.4013515 STARTER CABLE SELECTION: TRAXON #MB.AC.0501100	480	1	12W/FT	LED	120/277	SURFACE	
S	FLOODLIGHT LANDSCAPE ACCENT LUMINAIRE, 3000K, BEAM ANGLE ADJUSTABILITY FROM 15° TO 60° DESIGN SELECTION: WAC LIGHTING #5212-30-BZ	31	1	31	LED	120/277	WALL	
T	SINGLE CIRCUIT 'H' TRACK SYSTEM WITH SINGLE SOURCE, BEAM ANGLE ADJUSTABILITY FROM 15° TO 50° DESIGN SELECTION:TRACK FIXTURE: WAC #H-2042-935 DESIGN SELECTION:TRACK: WAC #HT	42	1	42	LED	120/277	SURFACE	LENGTH AS REQUIRED. FINISH BY ARCH
X	SINGLE AND DOUBLE FACE WITH UNIVERSAL CHEVRONS AND EDGE-LIT EXIT SIGN DESIGN SELECTION: LIGHTALARMS #E-UEN-GM	4	1	4	LED	120/277	UNIVERSAL	-
XE	COMBINATION EXIT / EMERGENCY BATTERY LIGHT DESIGN SELECTION: LIGHTALARMS #GR1240H-G-U-W-2-L010-ID	12	1	12	LED	120/277	UNIVERSAL	-

GENERAL LIGHTING FIXTURE NOTES:

1. ELECTRICAL SUBCONTRACTOR SHALL CLOSELY COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH RESPECTIVE LIGHTING FIXTURE FOR EACH ROOM PRIOR TO ORDERING TO ASSURE PROPER INSTALLATION.
2. EXIT LIGHTS SHALL BE MOUNTED WITH BOTTOM OF FIXTURE AT 6" ABOVE DOOR HEADER IN ALL AREAS THAT PERMIT THIS PLACEMENT. ALL OTHERS MAY BE CEILING MOUNTED.
3. IF THERE IS A DISCREPANCY BETWEEN A FIXTURE DESCRIPTION AND GENERAL NOTES, AND THE CATALOG NUMBER LISTED, THE FIXTURE DESCRIPTION AND GENERAL NOTES SHALL DICTATE.
4. PROVIDE ALL MOUNTING HARDWARE WITH FIXTURES NO LISTED IN CATALOG NUMBER. COORDINATE MOUNTING HARDWARE WITH CEILING TYPE.
5. MANUFACTURERS OTHER THAN THOSE LISTED SHALL SUBMIT AND RECEIVE PRIOR APPROVAL 10 DAYS PRIOR TO BID DATE.
6. PROVIDE DOCUMENTATION OF IESNA PHOTOMETRIC LM-79 TESTING PROCEDURES, LED LIFETIME LM-80 TESTING PROCEDURES, AND WARRANTY WITH SUBMITTAL.
7. ALL LED LUMINARES SHALL COMPLY WITH LM79 AND LM80 STANDARDS.
8. FINAL FINISH AND TRIM TO BE SELECTED BY OWNER/ARCHITECT.

VOLTAGE DROP NOTE

THIS PROJECT IS DESIGNED FOR A MAXIMUM TOTAL VOLTAGE DROP OF 5% AS PER 2017 FBC ENERGY CONSERVATION C405.6.3. THE FEEDERS HAVE BEEN SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD AND BRANCH CIRCUIT CONDUCTORS HAVE BEEN SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD.

SITE FIXTURE SCHEDULE

TYPE	DESCRIPTION	TOTAL WATTS	LAMPS NO.	LAMPS WATTS	LAMPS TYPE	VOLTAGE	MOUNTING	NOTES
SL1	TYPE III DISTRIBUTION LED AREA/FLOOD LUMINAIRE WITH BACKLIGHT SHIELD. PROVIDE WITH OCC. SENSOR DESIGN SELECTION: CREE #OSQ-A-NM-3ME-K-UL-BZ-PLM2/OSQ-AA-BZ/OSQ-BLSMF	130	1	130	LED	120/277	POLE	MOUNT AT 25 FEET AFG
SL2	TYPE IV DISTRIBUTION LED AREA/FLOOD LUMINAIRE. PROVIDE WITH OCC. SENSOR DESIGN SELECTION: CREE #OSQ-A-NM-4ME-K-UL-BZ-PLM2/OSQ-AA-BZ/(1)#PT-2(180)-BZ	130	1	130	LED	120/277	POLE	MOUNT AT 25 FEET AFG
POLE	32 FOOT CONCRETE POLE WITH BRACKET POLE SELECTION: SEMINOLE POLE INC. #SP32251I POLE BRACKET SELECTION: CREE #PT-2(180)-BZ							

GENERAL LIGHTING FIXTURE NOTES:

1. ELECTRICAL SUBCONTRACTOR SHALL CLOSELY COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH RESPECTIVE LIGHTING FIXTURE FOR EACH ROOM PRIOR TO ORDERING TO ASSURE PROPER INSTALLATION.
2. EXIT LIGHTS SHALL BE MOUNTED WITH BOTTOM OF FIXTURE AT 6" ABOVE DOOR HEADER IN ALL AREAS THAT PERMIT THIS PLACEMENT. ALL OTHERS MAY BE CEILING MOUNTED.
3. IF THERE IS A DISCREPANCY BETWEEN A FIXTURE DESCRIPTION AND GENERAL NOTES, AND THE CATALOG NUMBER LISTED, THE FIXTURE DESCRIPTION AND GENERAL NOTES SHALL DICTATE.
4. PROVIDE ALL MOUNTING HARDWARE WITH FIXTURES NO LISTED IN CATALOG NUMBER. COORDINATE MOUNTING HARDWARE WITH CEILING TYPE.
5. MANUFACTURERS OTHER THAN THOSE LISTED SHALL SUBMIT AND RECEIVE PRIOR APPROVAL 10 DAYS PRIOR TO BID DATE.
6. PROVIDE DOCUMENTATION OF IESNA PHOTOMETRIC LM-79 TESTING PROCEDURES, LED LIFETIME LM-80 TESTING PROCEDURES, AND WARRANTY WITH SUBMITTAL.
7. ALL LED LUMINARES SHALL COMPLY WITH LM79 AND LM80 STANDARDS.

ELECTRICAL SYMBOLS LEGEND

NOTE: THESE ARE STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS. REFER TO SPECIFICATIONS FOR MOUNTING HEIGHTS.

LIGHTING

NOTE:
UPPER CASE LETTER INDICATES FIXTURE TYPE, SEE LIGHTING FIXTURE SCHEDULE AND DRAWINGS. LOWER CASE LETTER INDICATES SWITCH CIRCUIT.
(EM) DENOTES FIXTURE WITH BATTERY BALLAST
(NL) DENOTES FIXTURE WIRED FOR CONTINUAL NON-SWITCHED OPERATION.

- 2X4 LUMINAIRE - CEILING MOUNTED
- 2X4 LUMINAIRE - CEILING MOUNTED, EMERGENCY POWER
- 2X2 LUMINAIRE - CEILING MOUNTED
- 2X2 LUMINAIRE - CEILING MOUNTED, EMERGENCY POWER
- INDUSTRIAL STRIP LUMINAIRE
- INDUSTRIAL STRIP LUMINAIRE - EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- LINEAR LIGHT LUMINAIRE - WALL MOUNTED
- LINEAR LIGHT LUMINAIRE - WALL MOUNTED, EMERGENCY POWER
- DOWNLIGHT LUMINAIRE - RECESSED
- DOWNLIGHT LUMINAIRE - RECESSED, EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- DOWNLIGHT LUMINAIRE - SURFACE MOUNTED
- DOWNLIGHT LUMINAIRE - SURFACE MOUNTED, EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- WALL WASH LUMINAIRE - RECESSED
- WALL MOUNTED LUMINAIRE
- WALL MOUNTED LUMINAIRE, EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- PENDANT MOUNTED LUMINAIRE
- BEAUTY BAR
- FLOODLIGHT
- TRACK LIGHTING
- UNIVERSAL MOUNTING EXIT LIGHTS, SINGLE AND DOUBLE FACED, ARROWS AS SHOWN ON FLOOR PLANS
- WALL MOUNTED EXIT LIGHTS, SINGLE FACED
- END MOUNTED EXIT LIGHTS, SINGLE AND DOUBLE FACED, ARROWS AS SHOWN ON FLOOR PLANS
- EMERGENCY BATTERY LIGHTING UNIT, HEADS AS INDICATED

SWITCHES

- $S_{a,b}$ LOWER CASE SUBSCRIPTS INDICATE OUTLET CONTROLLED
- S SINGLE POLE SWITCH (UNLESS NOTED BY SUBSCRIPT)
  * (2) DOUBLE POLE
  (3) WAY
  (4) WAY
  (D) DIMMER SWITCH (1500W UNLESS NOTED)
  (E) EMERGENCY SWITCH
  (K) KEY OPERATED
  (P) PILOT LIGHT INDICATION
  (T) SINGLE PHASE MOTOR STARTING SWITCH
  (EP) EXPLOSION PROOF
  (OS) OCCUPANCY SENSOR
  (WP) WEATHER PROOF
- (OS) OCCUPANCY SENSOR, DUAL TECHNOLOGY, LOW VOLTAGE WITH POWER PACKS. SENSOR SHALL CONTAIN AN AUXILIARY RELAY FOR HVAC CONTROLS EMS INTERFACE.
- (PE) PHOTOCELL

CONDUIT AND WIRE

- CONDUIT CONCEALED IN WALLS OR ABOVE CEILINGS
- CONDUIT CONCEALED UNDERGROUND OR IN SLAB
- CONDUIT HOMERUN
- CONDUIT EXPOSED ON WALLS OR CEILINGS
- EXISTING CONDUIT
- CONDUIT TURNED UP OR DOWN IN WALL
- -UE- UTILITY COMPANY CONDUIT
- -P- POWER CONDUIT
- BUSWAY - FEEDER TYPE (UNLESS NOTED)

RECEPTACLES

NOTES:
1. ALL RECEPTACLES SHALL BE RATED 120V, 20A, U.N.O.
2. ALL 120V, 20A, RECEPTACLES LOCATED IN DAMP AND/OR WET LOCATIONS SHALL BE LISTED "WEATHER-RESISTANT" (TYPE WR).

- DUPLEX RECEPTACLE
  * (G) DUPLEX GFCI RECEPTACLE
  (IG) DUPLEX ISOLATED GROUND RECEPTACLE.
  (EWC) ELECTRIC WATER COOLER, COORDINATE LOCATION WITH PLUMBING INSTALLER. LOCATE GFCI RECEPTACLE CENTERED UP UNDER COOLER.
  (WPG) DUPLEX GFCI WEATHER RESISTANT RECEPTACLE, WITH WHILE-IN-USE WEATHERPROOF COVER.
  (CR) CONTROLLED RECEPTACLE.
  (USB) RECEPTACLE; 2-POWER, 2-USB.
- DUPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER OR BACKSPLASH. MAXIMUM 48" TO CENTER.
- QUADRAPLEX RECEPTACLE IN TWO GANG BOX COVER.
- DUPLEX RECEPTACLE IN FLOOR BOX.
- QUADRAPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER OR BACKSPLASH. MAXIMUM 48" TO CENTER.
- DUPLEX RECEPTACLE TOP HALF SWITCHED
- DUPLEX RECEPTACLE FLUSH MOUNTED IN CEILING
- DUPLEX RECEPTACLE FLUSH MOUNTED IN CEILING HALF SWITCHED
- SIMPLEX RECEPTACLE
- SIMPLEX RECEPTACLE FLUSH MOUNTED IN CEILING
  * (2D) ELECTRICAL CONNECTION FOR HVAC EQUIPMENT MOUNTED ABOVE CEILING
  (VAV) ELECTRICAL CONNECTION FOR HVAC EQUIPMENT MOUNTED ABOVE CEILING
  (VVT) ELECTRICAL CONNECTION FOR HVAC EQUIPMENT MOUNTED ABOVE CEILING
- DUPLEX RECEPTACLE SPLIT WIRED
- COMBINATION DATA/TELEPHONE AND DUPLEX RECEPTACLE. MOUNTED IN CAST IRON OR STAINLESS STEEL FLOOR BOX. REFER TO POWER/SYSTEMS FLOOR PLAN FOR EXACT TYPE FLOOR BOX
- 5-20R SPECIAL OUTLET, SUBSCRIPT INDICATES NEMA CONFIGURATION NUMBER

POWER CONNECTIONS

- JUNCTION BOX SIZED PER N.E.C. UNLESS NOTED
  * (2D) ELECTRICAL CONNECTION FOR HVAC EQUIPMENT MOUNTED ABOVE CEILING
  (VAV) ELECTRICAL CONNECTION FOR HVAC EQUIPMENT MOUNTED ABOVE CEILING
  (VVT) ELECTRICAL CONNECTION FOR HVAC EQUIPMENT MOUNTED ABOVE CEILING
- FLOOR JUNCTION BOX
- EF MOTOR CONNECTION, MARK NUMBER WILL IDENTIFY EQUIPMENT, EF, AHU, CU, ETC. SEE MOTOR CONNECTION SCHEDULE.
- 30/3 NON FUSIBLE HEAVY DUTY SAFETY SWITCH, SIZE AND NUMBER OF POLES ARE INDICATED.
- 30/3 SR FUSIBLE HEAVY DUTY SAFETY SWITCH, SIZE AND NUMBER OF POLES ARE INDICATED.
  25 — ENCLOSURE NEMA RATING
  DISCONNECT SIZE, #POLES
  FUSE SIZE
- ENCLOSED CIRCUIT BREAKER.
- ATS AUTOMATIC TRANSFER SWITCH - SEE RISER DIAGRAM
- PANELBOARD, LOW VOLTAGE (120/208V) - SEE PANELBOARD SCHEDULES AND RISER DIAGRAM
- PANELBOARD, HIGH VOLTAGE (277/480V) - SEE PANELBOARD SCHEDULES AND RISER DIAGRAM
- DISTRIBUTION PANEL, SEE RISER DIAGRAM

FIRE ALARM SYSTEM

NOTE:
(D) DENOTES DUCT MOUNTED
(C) DENOTES CEILING MOUNTED
(F) DENOTES FLUSH WALL MOUNTED
(UF) DENOTES UNDER FLOOR ACCESS
(WP) DENOTES WEATHERPROTECTED

- SA SMOKE ALARM - NON-SYSTEM, 120V (PROVIDE WITH BATTERY BACK-UP)
- SD SYSTEM SMOKE DETECTOR - PHOTO
- DD DUCT DETECTOR
- CO CARBON MONOXIDE DETECTOR
- MP MANUAL PULL STATION
- *HF SIGNALING APPLIANCE - HORN
  * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED) - MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- *SPF SIGNALING APPLIANCE - SPEAKER
  * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED) - MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- SIGNALING APPLIANCE - STROBE (75CD UNLESS NOTED) - MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- *HF SIGNALING APPLIANCE - CHIME
  * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED) - MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- *F SIGNALING APPLIANCE - BELL
  * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED) - MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- HF SIGNALING APPLIANCE - LOW FREQUENCY HORN (520HZ)
- FIRE ALARM SYSTEM RACEWAY
- ZIM ZONE INTERFACE MODULE
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL
- FZP FIRE ALARM ZONE PANEL
- FATC FIRE ALARM TERMINAL CABINET
- FATP FIREMAN'S TELEPHONE PANEL

DATA DISTRIBUTION

- DATA OUTLET, FLUSH WALL MTD. 18" AFF UNLESS NOTED OTHERWISE
  * (#) PROVIDE COVERPLATE WITH NUMBER OF PORTS AS SHOWN.
  (C) MOUNT 4" ABOVE COUNTER OR BACKSPLASH
  (S) SURFACE WALL MOUNTED 18" AFF
  (W) RECESSED WALL MOUNTED 48" AFF
  (LAN) LOCAL AREA NETWORK OUTLET
  (POS) POS DATA OUTLET
- DATA OUTLET, FLUSH IN FLOOR BOX
- COMBINATION DATA/TELEPHONE OUTLET, FLUSH WALL MTD. 18" AFF UNLESS NOTED OTHERWISE
  * (#) PROVIDE COVERPLATE WITH NUMBER OF PORTS AS SHOWN.
  (C) MOUNT 4" ABOVE COUNTER OR BACKSPLASH
  (S) SURFACE WALL MOUNTED 18" AFF
  (W) RECESSED WALL MOUNTED 48" AFF

SITE

- T POWER COMPANY TRANSFORMER - UNLESS NOTED
- PARKING LOT OR ROADWAY HID FIXTURE - NORMAL POWER
- PARKING LOT OR ROADWAY HID FIXTURE - EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- WALKWAY BOLLARD
- FLOODLIGHT
- POLE
- G GENERATOR - SEE RISER DIAGRAM

LIGHTNING PROTECTION SYSTEM

- -C- COUNTERPOISE CONDUCTOR - CABLE SIZED PER NFPA 780
- -G- MAIN L.P. CONDUCTOR - CABLE SIZED PER NFPA 780
- -B- BONDING CONDUCTOR - CABLE SIZED PER NFPA 780
- AIR TERMINAL
  * (A) FLAT SURFACE BASE
  (B) FLAT WALL MOUNTED PARAPET
  (C) SWIVEL BASE
  (D) RIDGE SADDLE BASE (EXPOSED)
  (E) RIDGE SADDLE BASE (CONCEALED)
  (F) CONCEALED AIR TERMINAL BASE ASSEMBLY
- MECHANICAL OR EXOTHERMIC BOND
- EXOTHERMIC TEE CONNECTION
- DN DOWN CONDUCTOR LOCATION

GENERAL NOTES

1. EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND NEMA RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED.
2. WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NATIONAL ELECTRICAL CODE ARTICLE 110.
   A. THE EXCLUSIVELY DEDICATED SPACE EXTENDING FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE PANELBOARD, SWITCHBOARD, MOTOR STARTER, DISCONNECT SWITCH OR TRANSFORMER MUST BE CLEAR OF ALL PIPING, DUCTS, EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE ARTICLE 384.
   B. COORDINATE ALL FLUSH MOUNTED PANELS WITH HVAC DUCTS AND PIPING TO MAINTAIN EXCLUSIVELY DEDICATED SPACE PER NOTE 4.A ABOVE.
3. WHEN ELECTRICAL BOXES ARE LOCATED IN VERTICAL FIRE RESISTIVE ASSEMBLIES (CLASSIFIED AS FIRE/SMOKE AND SMOKE PARTITIONS), ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:
   A. ALL ELECTRICAL BOXES SHALL BE METALLIC.
   B. BOX OPENINGS SHALL OCCUR ONLY ON ONE SIDE OF FRAMING SPACE.
   C. BOX OPENINGS SHALL NOT EXCEED 16 SQUARE INCHES.
   D. ALL CLEARANCES BETWEEN OUTLET BOX AND GYPSUM BOARD SHALL BE COMPLETELY SEALED WITH JOINT COMPOUND OR OTHER APPROVED MATERIAL.
   E. PROVIDE A WALL AROUND OUTLETS LARGER THAN 16 INCHES SO THAT THE INTEGRITY OF THE FIRE RATING OF THE WALL IS MAINTAINED.
   F. THE TOTAL AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET.
   G. OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE RESISTIVE ASSEMBLIES SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
   H. OUTLET BOXES SHALL BE SECURELY FASTENED TO WALL FRAME MEMBERS.
   I. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT NOT TO EXCEED 1/8 INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.
4. LOCATIONS OF EQUIPMENT SHOWN ON THE DRAWINGS WHICH REQUIRE ELECTRICAL CONNECTIONS AND ARE NOT PROVIDED UNDER DIVISION 26 ARE SHOWN APPROXIMATE. COORDINATE EXACT LOCATIONS OF EQUIPMENT AND ELECTRICAL CONNECTIONS WITH APPROPRIATE TRADE PRIOR TO ROUGHING IN AND ROUTING CONDUIT.
5. COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND DRYWALL CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS.
6. PROVIDE FINAL CONNECTIONS TO OWNER-PROVIDED EQUIPMENT INDICATED ON THE PLAN DRAWINGS REQUIRING HARD-WIRE CONNECTIONS.
7. VERIFY AND COORDINATE POWER AND DATA OUTLETS, AS WELL AS LIGHT FIXTURES WITH MECHANICAL AND OWNER-PROVIDED EQUIPMENT.
8. LIGHT SWITCHES SHALL BE MOUNTED 46" A.F.F. TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
9. RECEPTACLES SHALL BE MOUNTED 18" A.F.F. TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
10. CONDUIT, RACEWAYS, BOXES, ETC. SHALL BE SPOT PAINTED PRIOR TO LABELING. CONDUITS SHALL BE IDENTIFIED WITH IN 6 INCHES OF THE BOX OR ENCLOSURE. THE ENTIRE BOX AND COVER PLATE SHALL BE PAINTED.
11. APPLY BANDS 10 FEET ON CENTER ALONG THE RACEWAY SYSTEMS.
12. ALL RECEPTACLES AND JUNCTION BOXES TO BE MARKED WITH CIRCUIT AND PANEL LABEL MARKERS.
13. RECEPTACLES AND OUTLETS NEAR FLOOR LEVEL SHALL BE 16 INCHES OFF THE FINISHED FLOOR ON THE BOTTOM AND 20 INCHES TO THE TOP.
14. ALL IN WALL WIRING TO BE IN EMT RACEWAYS. ALL CONDUITS USED TO BE MINIMUM 1 TRADE SIZE LARGER THAN REQUIRED BY NEC FOR WIRE FILL.
15. ALL PRODUCTS USED ON THIS PROJECT MUST BE IN COMPLIANCE WITH THE MOST CURRENT APPLICABLE EDITION OF THE FLORIDA BUILDING CODE.
16. THE DOCUMENTS LISTED IN THE INDEX AND SPECIFICATIONS HAVE BEEN PREPARED TO BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA-70) 2017 EDITION.
17. CONTRACTOR SHALL COORDINATE ALL LIGHTING POLES WITH TREES TO AVOID LIGHTING INTERFERENCE.

ABBREVIATIONS:

A	AMPERES
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ANNUN	ANNUNCIATOR
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
C	CONDUIT
CAT	CATALOG
CKT	CIRCUIT
CU	COPPER
C/B	CIRCUIT BREAKER
C/T	CURRENT TRANSFORMERS
Δ	DELTA
DWG	DRAWING
FT	FEET
G	GROUND
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPT
IG	ISOLATED GROUND
KVA	KILOVOLT - AMPERES
KW	KILOWATTS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
NEC	NATIONAL ELECTRICAL CODE
NC	NORMALLY CLOSED
NL	NIGHT LIGHT CIRCUIT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
#	PHASE
POS	POINT OF SALE
PVC	POLYVINYL CHLORIDE
P/T	POTENCIAL TRANSFORMER
R	RECESSED
SCA	SHORT CIRCUIT AMPERES
SURF	SURFACE
TEL	TELEPHONE
UG	UNDERGROUND
UNIV	UNIVERSAL
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
W	WATTS
WP	WEATHERPROOF
WPG	WEATHERPROOF WITH GROUND FAULT INTERRUPT
XFMER	TRANSFORMER
Y	WYE

1 GENERAL NOTES - ELECTRICAL
SCALE: 1/8" = 1'-0"

DICKERSON ARCHITECTS, INC.
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LICENSE NO. AA0000592

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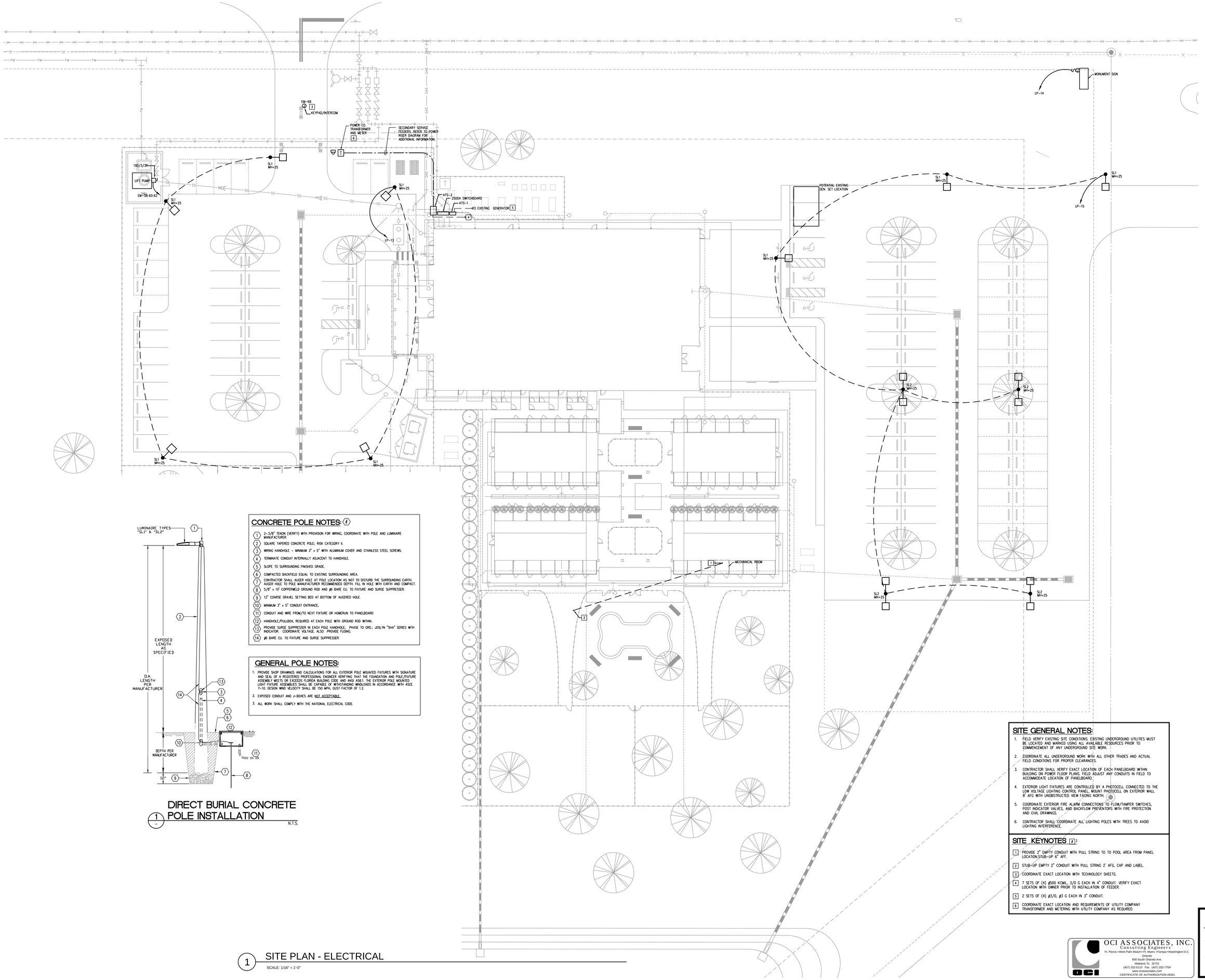
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DIRECT BURIAL CONCRETE POLE INSTALLATION

1 — N.T.S.

CONCRETE POLE NOTES: (F)

1. 2-3/8" TENON (VERIFY) WITH PROVISION FOR WIRING, COORDINATE WITH POLE AND LUMINAIRE MANUFACTURER.
2. SQUARE TAPERED CONCRETE POLE; RISK CATEGORY II.
3. WIRING HANDHOLE – MINIMUM 3" x 5" WITH ALUMINUM COVER AND STAINLESS STEEL SCREWS.
4. TERMINATE CONDUIT INTERNALLY ADJACENT TO HANDHOLE.
5. SLOPE TO SURROUNDING FINISHED GRADE.
6. COMPACTED BACKFIELD EQUAL TO EXISTING SURROUNDING AREA.
7. CONTRACTOR SHALL AUGER HOLE AT POLE LOCATION AS NOT TO DISTURB THE SURROUNDING EARTH. AUGER HOLE TO POLE MANUFACTURER RECOMMENDED DEPTH. FILL IN HOLE WITH EARTH AND COMPACT.
8. 5/8" x 10' COPPERWELD GROUND ROD AND #6 BARE CU. TO FIXTURE AND SURGE SUPPRESSER.
9. 12" COARSE GRAVEL SETTING BED AT BOTTOM OF AUGERED HOLE.
10. MINIMUM 3" x 5" CONDUIT ENTRANCE.
11. CONDUIT AND WIRE FROM/TO NEXT FIXTURE OR HOMERUN TO PANELBOARD
12. HANDHOLE/PULLBOX, REQUIRED AT EACH POLE WITH GROUND ROD WITHIN.
13. PROVIDE SURGE SUPPRESSER IN EACH POLE HANDHOLE; PHASE TO GRD.; JOSLYN "SHA" SERIES WITH INDICATOR. COORDINATE VOLTAGE. ALSO PROVIDE FUSING.
14. #6 BARE CU. TO FIXTURE AND SURGE SUPPRESSER.

GENERAL POLE NOTES:

1. PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR ALL EXTERIOR POLE MOUNTED FIXTURES WITH SIGNATURE AND SEAL OF A REGISTERED PROFESSIONAL ENGINEER VERIFYING THAT THE FOUNDATION AND POLE/FIXTURE ASSEMBLY MEETS OR EXCEEDS FLORIDA BUILDING CODE AND ANSI A58.1. THE EXTERIOR POLE MOUNTED LIGHT FIXTURE ASSEMBLIES SHALL BE CAPABLE OF WITHSTANDING WINDLOADS IN ACCORDANCE WITH ASCE 7-10. DESIGN WIND VELOCITY SHALL BE 150 MPH, GUST FACTOR OF 1.2.
2. EXPOSED CONDUIT AND J-BOXES ARE NOT ACCEPTABLE.
3. ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE.

SITE GENERAL NOTES:

1. FIELD VERIFY EXISTING SITE CONDITIONS. EXISTING UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED USING ALL AVAILABLE RESOURCES PRIOR TO COMMENCEMENT OF ANY UNDERGROUND SITE WORK.
2. COORDINATE ALL UNDERGROUND WORK WITH ALL OTHER TRADES AND ACTUAL FIELD CONDITIONS FOR PROPER CLEARANCES.
3. CONTRACTOR SHALL VERIFY EXACT LOCATION OF EACH PANELBOARD WITHIN BUILDING ON POWER FLOOR PLANS. FIELD ADJUST ANY CONDUITS IN FIELD TO ACCOMMODATE LOCATION OF PANELBOARD.
4. EXTERIOR LIGHT FIXTURES ARE CONTROLLED BY A PHOTOCELL CONNECTED TO THE LOW VOLTAGE LIGHTING CONTROL PANEL. MOUNT PHOTOCELL ON EXTERIOR WALL 8' AFG WITH UNOBSTRUCTED VIEW FACING NORTH.
5. COORDINATE EXTERIOR FIRE ALARM CONNECTIONS TO FLOW/TAMPER SWITCHES, POST INDICATOR VALVES, AND BACKFLOW PREVENTORS WITH FIRE PROTECTION AND CIVIL DRAWINGS.
6. CONTRACTOR SHALL COORDINATE ALL LIGHTING POLES WITH TREES TO AVOID LIGHTING INTERFERENCE.

SITE KEYNOTES (F):

1. PROVIDE 2" EMPTY CONDUIT WITH PULL STRING TO TO POOL AREA FROM PANEL LOCATION.STUB-UP 6" AFF.
2. STUB-UP EMPTY 2" CONDUIT WITH PULL STRING 2' AFG, CAP AND LABEL.
3. COORDINATE EXACT LOCATION WITH TECHNOLOGY SHEETS.
4. 7 SETS OF (4) #500 KCMIL, 3/0 G EACH IN 4" CONDUIT. VERIFY EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION OF FEEDER.
5. 2 SETS OF (4) #3/0, #3 G EACH IN 3" CONDUIT.
6. COORDINATE EXACT LOCATION AND REQUIREMENTS OF UTILITY COMPANY TRANSFORMER AND METERING WITH UTILITY COMPANY AS REQUIRED.

1 SITE PLAN - ELECTRICAL

SCALE: 1/16" = 1'-0"

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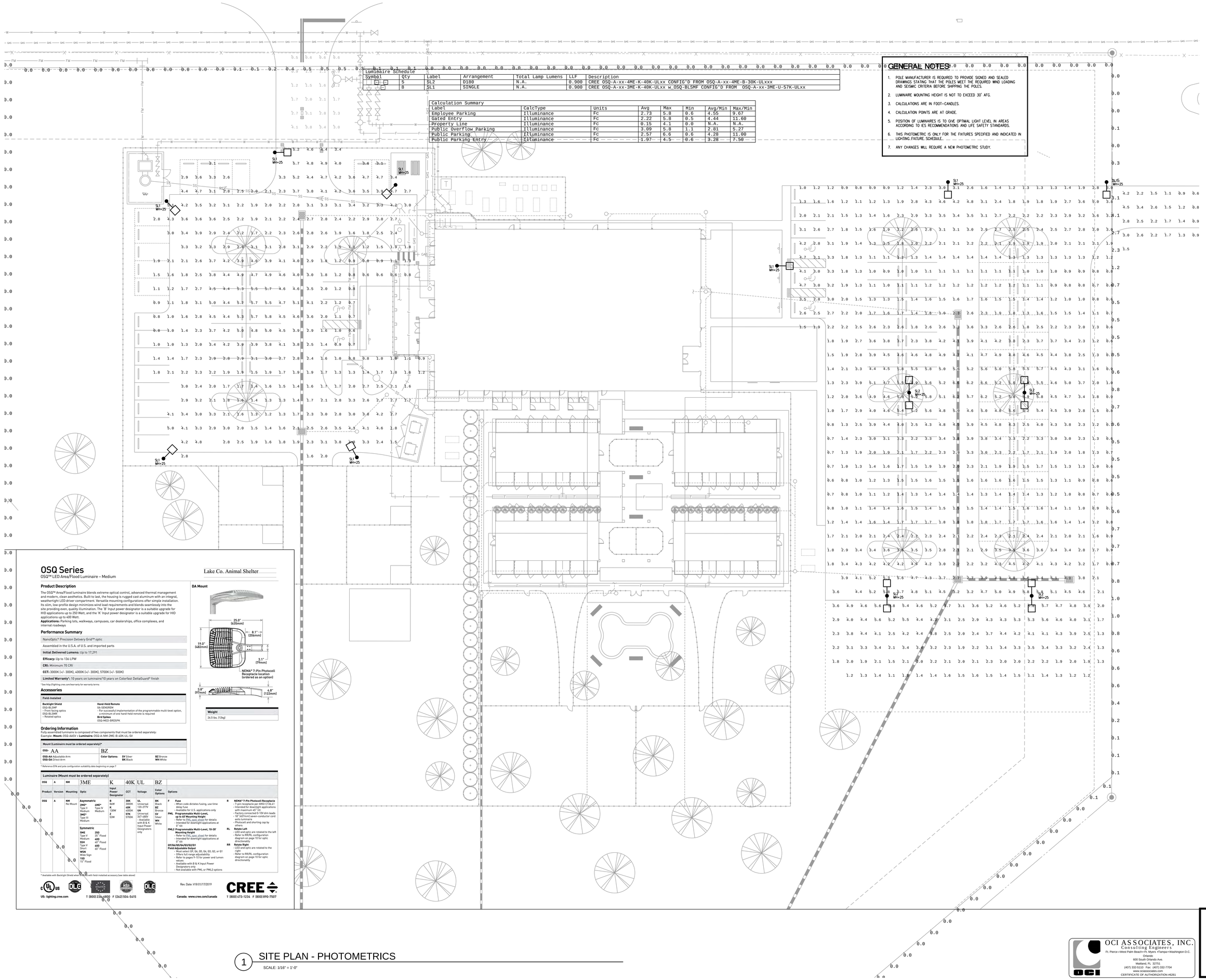
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OSQ Series

OSQ™ LED Area/Flood Luminaire – Medium

Lake Co. Animal Shelter

Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. The 'B' Input power designator is a suitable upgrade for HID applications up to 250 Watt, and the 'K' Input power designator is a suitable upgrade for HID applications up to 400 Watt.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, and internal roadways.

Performance Summary

NanoOptic® Precision Delivery Grid™ optic

Assembled in the U.S.A. of U.S. and imported parts

Initial Delivered Lumens: Up to 17,291

Efficacy: Up to 136 LPW

CRI: Minimum 70 CRI

CCT: 3000K (+/- 300K), 4000K (+/- 300K), 5700K (+/- 500K)

Limited Warranty[1]: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

[1]See http://lighting.cree.com/warranty for warranty terms

Accessories

Field-Installed

Backlight Shield
OSQ-BLSMF
– Front facing optics
OSQ-BLSMR
– Rotated optics

Hand-Held Remote
XA-SENSREM
– For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

Bird Spikes
OSQ-MED-BRDSPK

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-AASV + **Luminaire:** OSQ-A-NM-2ME-B-40K-UL-SV

Mount (Luminaire must be ordered separately)*

OSQ- AA BZ

OSQ-AA Adjustable Arm
OSQ-DA Direct Arm

Color Options: **SV** Silver, **BK** Black, **BZ** Bronze, **WH** White

* Reference EPA and pole configuration suitability data beginning on page 7

Luminaire (Mount must be ordered separately)

OSQ A NM 3ME K 40K UL BZ

Product	Version	Mounting	Optic	Input Power Designator	CCT	Voltage	Color Options
OSQ	A	NM No Mount	**Asymmetric** **2ME*** Type II Medium **3ME*** Type III Medium **4ME*** Type IV Medium **Symmetric** **5ME** Type V Medium **5SH** Type V Short **WM** Wide Medium **15D** 15° Flood **25D** 25° Flood **40D** 40° Flood **60D** 60° Flood	**B** 80W **K** 120W **Z** 53W	**30K** 3000K **40K** 4000K **57K** 5700K	**UL** Universal 120-277V **UH** Universal 347-480V – Available with B & K Input Power Designators only	**BK** Black **BZ** Bronze **SV** Silver **WH** White

Options

F Fuse
- When code dictates fusing, use time delay fuse
- Available for U.S. applications only

PML Programmable Multi-Level, up to 40' Mounting Height
- Refer to PML spec sheet for details
- Intended for downlight applications at 0° tilt

PML2 Programmable Multi-Level, 10-30' Mounting Height
- Refer to PML spec sheet for details
- Intended for downlight applications at 0° tilt

DV/GU/05/04/03/02/01 Field-Adjustable Output
- Must select DF, DL, D5, D4, D3, D2, or D1
- Offers full range adjustability
- Refer to pages 9-10 for power and lumen values
- Available with B & K Input Power Designators only
- Not available with PML or PML2 options

R NEMA® 7-Pin Photocell Receptacle
- 7-pin receptacle per ANSI C136.41
- Intended for downlight applications with maximum 45° tilt
- Factory connected 0-10V dim leads - 18" (457mm) seven-conductor cord plus luminaire
- Photocell and shorting cap by others

RL Rotate Left
- LED and optic are rotated to the left
- Refer to RR/RL configuration diagram on page 10 for optic directionality

RR Rotate Right
- LED and optic are rotated to the right
- Refer to RR/RL configuration diagram on page 10 for optic directionality

* Available with Backlight Shield when ordered with field-installed accessory (see table above)

DA Mount

Weight
26.5 lbs. (12kg)

US: lighting.cree.com T (800) 236-4800 F (262) 504-5415

Rev. Date: V18 01/17/2019

Canada: www.cree.com/canada T (800) 473-1234 F (800) 890-7507

CREE

1 SITE PLAN - PHOTOMETRICS

SCALE: 1/16" = 1'-0"

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LIGHTING GENERAL NOTES :

1. ALL LIGHT SWITCHES SHALL BE 277V RATED UNLESS OTHERWISE NOTED.
2. COORDINATE EXACT LOCATION OF EACH LIGHT FIXTURE WITH MECHANICAL PIPING, CONDUIT, HVAC GILLES, ETC. FIELD ADJUST ANY LIGHT TO AVOID CONFLICT.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT TYPE AND HEIGHT OF CEILING IN EACH ROOM. COORDINATE WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN OF ANY FIXTURES. COORDINATE ALL CONTROL JOINT LOCATIONS WITH LIGHT FIXTURES PRIOR TO ANY ROUGH-IN OF FIXTURES.
4. EMERGENCY LIGHTS AND EXIT SIGNS SHALL BE CONNECTED TO THE LOCAL LIGHTING CIRCUIT SERVING THE SPACE AND WIRED AHEAD ANY LOCAL WALL SWITCHES.
5. EXIT LIGHTS SHALL BE MOUNTED WITH BOTTOM OF FIXTURE AT 6" ABOVE DOOR HEADER IN ALL AREAS THAT PERMIT THIS PLACEMENT. ALL OTHERS MAY BE CEILING MOUNTED.
6. MULTIPLE LIGHT SWITCHES, AT THE SAME LOCATION, SHALL BE GANGED TOGETHER UNDER ONE COVER PLATE. DIMMER SWITCHES SHALL BE INSTALLED IMMEDIATELY BELOW SWITCH LOCATIONS.
7. COORDINATE LOCATION OF ALL LIGHT FIXTURES WITH ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
8. POWER PACK FOR OCCUPANCY SENSORS ARE NOT INDICATED ON PLANS. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER PACKS PER OCCUPANCY SENSOR MANUFACTURER'S RECOMMENDATIONS.

LIGHTING SHEET KEYNOTES [X] :

1. ALL TYPE 'C' FIXTURES MOUNTING HEIGHT SHALL EQUAL THE MOUNTING HEIGHT OF TYPE 'C1'.
2. WALL MOUNT FIXTURE ABOVE MECHANICAL ROOM DOOR TIGHT TO CEILING.
3. CONTRACTOR SHALL PROVIDE 0-10 CONTROL WIRES AS REQUIRED.
4. MOUNT OCCUPANCY SENSOR AT LOWER END OF VAULTED CEILING FOR BETTER SENSITIVITY.
5. MOUNT FIXTURE 10' ABOVE FINISHED GRADE.
6. CONNECT LIGHT FIXTURE VIA PHOTOCELL.
7. LOW VOLTAGE SWITCH (MINIMUM 5 BUTTON) FOR LOBBY LIGHTING CONTROL. PROVIDE SEPARATE CONTROL OF DOWNLIGHTS, TROFFERS AND PENDANT. REFER TO DETAIL FOR ADDITIONAL INFORMATION.

REMOVED OCCUPANCY SENSORS IN THIS LOCATION. 07/15/2020

(TYPICAL FOR DOG CAGE)

LANDSCAPED BED / FENCE WITH VINES

LANDSCAPED BED WITH SMALL TREE

TURF

CEILING PENDANT

1 FLOOR PLAN - LIGHTING ELECTRICAL

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

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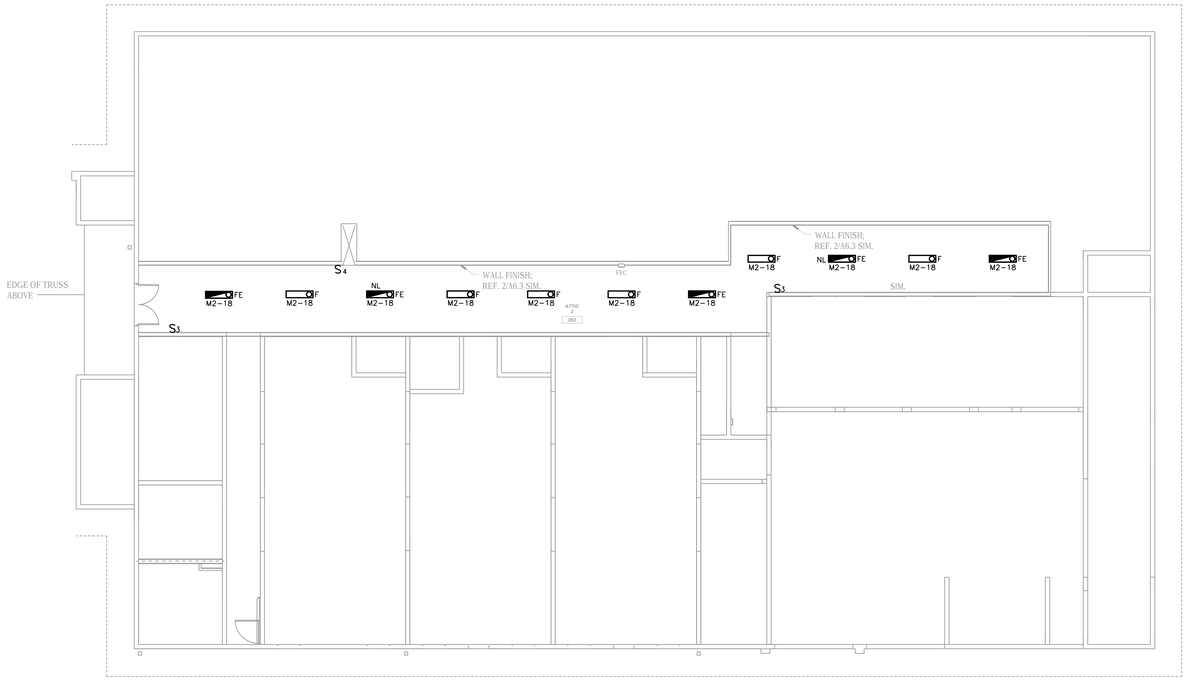
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1 ELECTRICAL ATTIC PLAN - LIGHTING

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

LIGHTING GENERAL NOTES :

1. ALL LIGHT SWITCHES SHALL BE 277V RATED UNLESS OTHERWISE NOTED.
2. COORDINATE EXACT LOCATION OF EACH LIGHT FIXTURE WITH MECHANICAL PIPING, CONDUIT, HVAC GILLES, ETC. FIELD ADJUST ANY LIGHT TO AVOID CONFLICT.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT TYPE AND HEIGHT OF CEILING IN EACH ROOM. COORDINATE WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN OF ANY FIXTURES; COORDINATE ALL CONTROL JOINT LOCATIONS WITH LIGHT FIXTURES PRIOR TO ANY ROUGH-IN OF FIXTURES.
4. EMERGENCY LIGHTS AND EXIT SIGNS SHALL BE CONNECTED TO THE LOCAL LIGHTING CIRCUIT SERVING THE SPACE AND WIRED AHEAD ANY LOCAL WALL SWITCHES.
5. EXIT LIGHTS SHALL BE MOUNTED WITH BOTTOM OF FIXTURE AT 6" ABOVE DOOR HEADER IN ALL AREAS THAT PERMIT THIS PLACEMENT. ALL OTHERS MAY BE CEILING MOUNTED.
6. MULTIPLE LIGHT SWITCHES, AT THE SAME LOCATION, SHALL BE GANGED TOGETHER UNDER ONE COVER PLATE. DIMMER SWITCHES SHALL BE INSTALLED IMMEDIATELY BELOW SWITCH LOCATIONS.
7. COORDINATE LOCATION OF ALL LIGHT FIXTURES WITH ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
8. POWER PACK FOR OCCUPANCY SENSORS ARE NOT INDICATED ON PLANS. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER PACKS PER OCCUPANCY SENSOR MANUFACTURER'S RECOMMENDATIONS.

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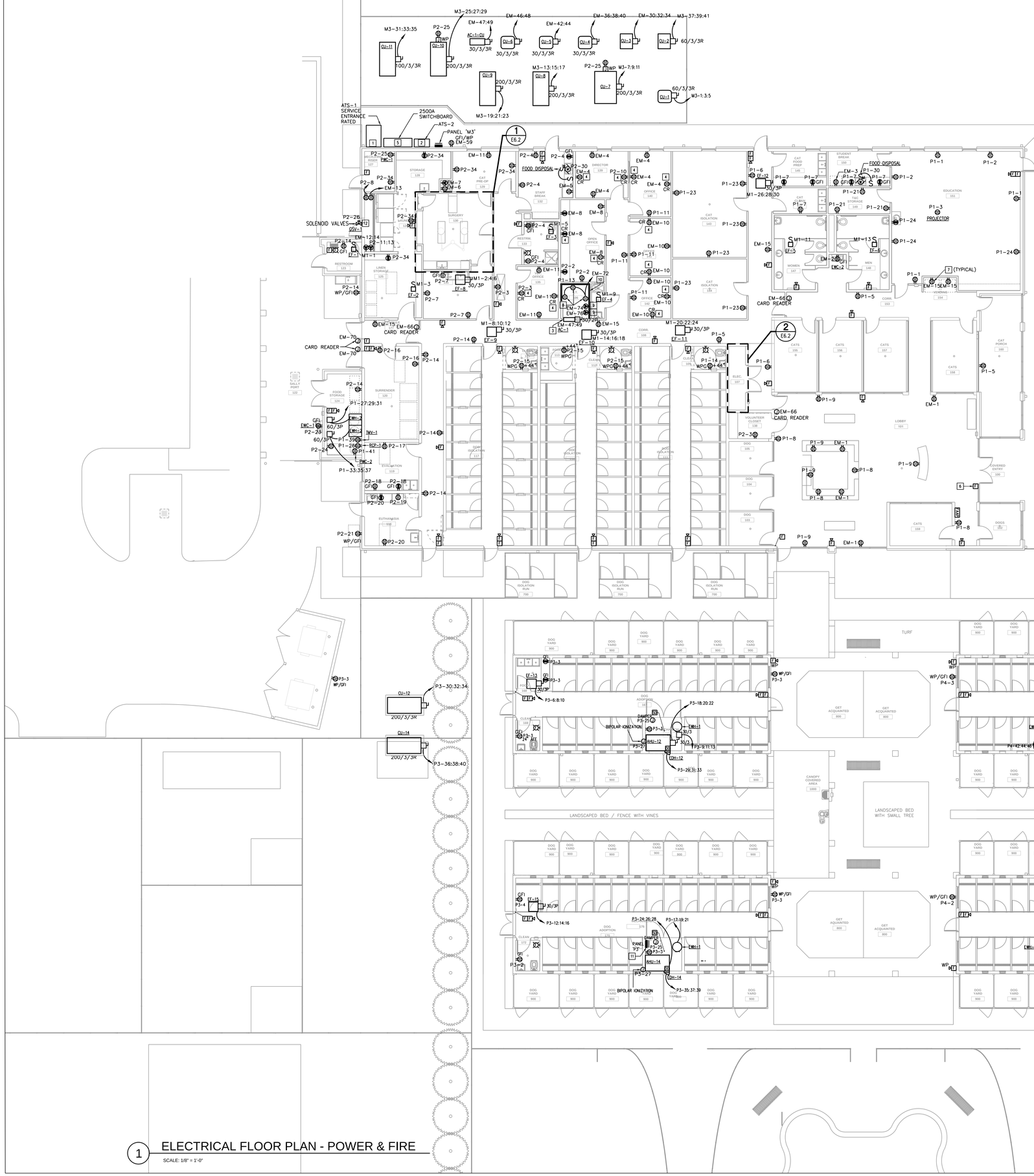
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POWER GENERAL NOTES:

1. COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND ACCEPTED MILLWORK SHOP DRAWINGS.
2. LOCATION OF ALL DEVICES ON DRAWINGS ARE APPROXIMATE ONLY. VERIFY EXACT LOCATION WITH OWNERS REPRESENTATIVE, ARCHITECT, AND/OR ENGINEER PRIOR TO ROUGH-IN.
3. COORDINATE THE LOCATION OF VOICE/DATA OUTLETS WITH POWER RECEPTACLES ESPECIALLY WHERE COMPUTERS ARE TO BE LOCATED. COORDINATE WITH TECHNOLOGY DRAWINGS.
4. ALL RACEWAYS AND CABLE SHALL BE BE CONCEALED UNLESS NOTED OR APPROVED IN WRITING BY OWNER AND/OR ENGINEER.
5. MOUNT ALL DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT WITHIN 6 FT. OF EQUIPMENT CONNECTION POINT. VERIFY LOCATION OF POINT OF CONNECTION WITH EQUIPMENT INSTALLER PRIOR TO ELECTRICAL ROUGH-IN. (DRAWINGS ONLY SHOW DIAGRAMATIC LOCATION OF CONNECTION).
6. DISCONNECTS SWITCHES AND STARTERS ON MECHANICAL EQUIPMENT ARE SHOWN FOR WIRING PURPOSES ONLY. DISCONNECT SWITCHES AND STARTERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
7. ALL CONTROL WIRING FOR MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.

POWER SHEET KEYNOTES [x] :

1. 2500A ATS, SERVICE ENTRANCE RATED, NEMA 3R TO NEW GENERATOR. IF OWNER DOES NOT INSTALL ATS-2 THEN CONTRACTOR SHALL PROVIDE A 2500A FUSED BUILDING DISCONNECT, NEMA 3R TYPE.
2. 400A ATS, NEMA 3R TO EXISTING 150kW GENERATOR.
3. POWERED FROM OUTDOOR UNIT. SEE SHEET M6.1 FOR MORE INFORMATION.
4. PROVIDE CONTROL RECEPTACLE AS REQUIRED PER THE FLORIDA BUILDING CODE. SEE DETAIL 1 ON SHEET ES.2 FOR MORE INFORMATION.
5. 2500A SWITCHBOARD, SERVICE ENTRANCE RATED, NEMA 3R.
6. COORDINATE MOUNTING OF FIRE ALARM PULL STATION WITH DOOR CONSTRUCTION.
7. RECEPTACLES/QUADS ON EMERGENCY GENERATOR PANEL 'EM' SHALL BE INDICATED WITH RED DEVICE AND RED COVER PLATE.
8. COORDINATE LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY SYSTEM PROVIDER.
9. PROVIDE L5-30R PLUG.
10. PLYWOOD BACKBOARD, 8'-0" HIGH X EQUIPMENT LENGTH ON WALL, MOUNT WITH BOTTOM AT 6" ABOVE FINISH FLOOR. ROUGH-IN ALL ELECTRICAL OUTLETS IN BACKBOARD FOR FLUSH MOUNT INSTALLATION OF FACEPLATES. BACKBOARDS SHALL BE 3/4" THICK AC GRADE PLYWOOD. COUNTERSINK ALL SCREWS. PRIME WITH TWO COATS FIRE RETARDANT PRIMER, SANDING SMOOTH AFTER EACH COAT. FINISH WITH TWO COATS FIRE RETARDANT PAINT, COLOR LIGHT GREY. ON ALL SIX SIDES. FINAL SURFACE SHALL BE UNIFORMLY SMOOTH AND EVEN. TOUCH UP AT END OF PROJECT. CONTRACTOR SHALL ENSURE THAT POWER RECEPTACLES ARE PROPERLY LOCATED AND WITH FACEPLATES FLUSH ON FACE OF BACKBOARD. FOR ROUTING CABLES ON BACKBOARD, PROVIDE D-RINGS AT 12" ON CENTER. BUNDLE CABLES NEATLY WITH VELCRO, AND SEPARATE SYSTEMS.
11. COORDINATE EXACT N.E.C CLEARANCES WITH MECHANICAL EQUIPMENT IN THIS LOCATION PRIOR TO ROUGH-IN.
12. MANUEL RESET SOLENOID VALVE. CONNECTION TO FIRE ALARM SYSTEM BY ALARM CONTRACTOR. SEE PLUMBING SHEETS FOR MORE DETAIL.

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1 ELECTRICAL FLOOR PLAN - POWER & FIRE

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

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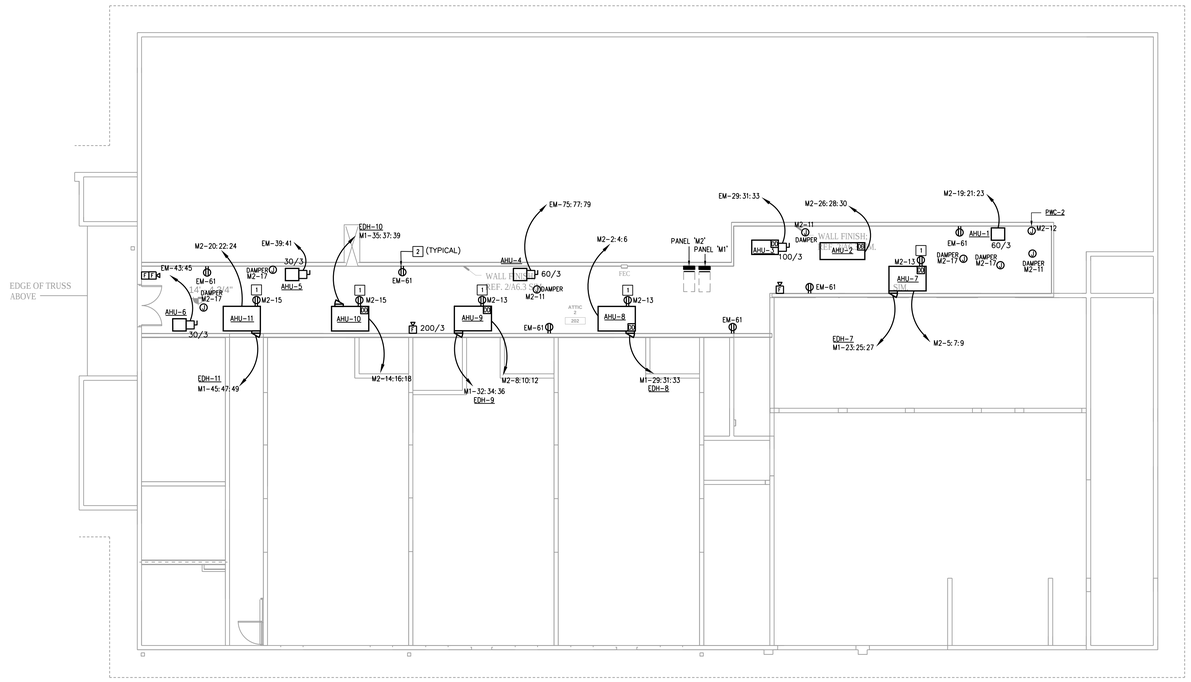
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1 ELECTRICAL ATTIC PLAN - POWER & FIRE

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

POWER GENERAL NOTES:

1. COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND ACCEPTED MILLWORK SHOP DRAWINGS.
2. LOCATION OF ALL DEVICES ON DRAWINGS ARE APPROXIMATE ONLY. VERIFY EXACT LOCATION WITH OWNERS REPRESENTATIVE, ARCHITECT, AND/OR ENGINEER PRIOR TO ROUGH-IN.
3. COORDINATE THE LOCATION OF VOICE/DATA OUTLETS WITH POWER RECEPTACLES ESPECIALLY WHERE COMPUTERS ARE TO BE LOCATED. COORDINATE WITH TECHNOLOGY DRAWINGS.
4. ALL RACEWAYS AND CABLE SHALL BE BE CONCEALED UNLESS NOTED OR APPROVED IN WRITING BY OWNER AND/OR ENGINEER.
5. MOUNT ALL DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT WITHIN 6 FT. OF EQUIPMENT CONNECTION POINT, VERIFY LOCATION OF POINT OF CONNECTION WITH EQUIPMENT INSTALLER PRIOR TO ELECTRICAL ROUGH-IN. (DRAWINGS ONLY SHOW DIAGRAMMATIC LOCATION OF CONNECTION).
6. DISCONNECTS SWITCHES AND STARTERS ON MECHANICAL EQUIPMENT ARE SHOWN FOR WIRING PURPOSES ONLY. DISCONNECT SWITCHES AND STARTERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
7. ALL CONTROL WIRING FOR MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.

POWER SHEET KEYNOTES [x] :

[1] BIPOLAR IONIZATION FOR HVAC EQUIPMENT. SEE SHEET M6.1 FOR MORE INFORMATION.

[2] RECEPTACLES/DUADS ON EMERGENCY GENERATOR PANEL 'EM' SHALL BE INDICATED WITH RED DEVICE AND RED COVER PLATE.

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PHONE: (352) 787-1717
EMAIL: JSDARCH@AOL.COM
LICENSE NO. AA0000592

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LAKE COUNTY ANIMAL SHELTER
TAVARES, LAKE COUNTY, FL

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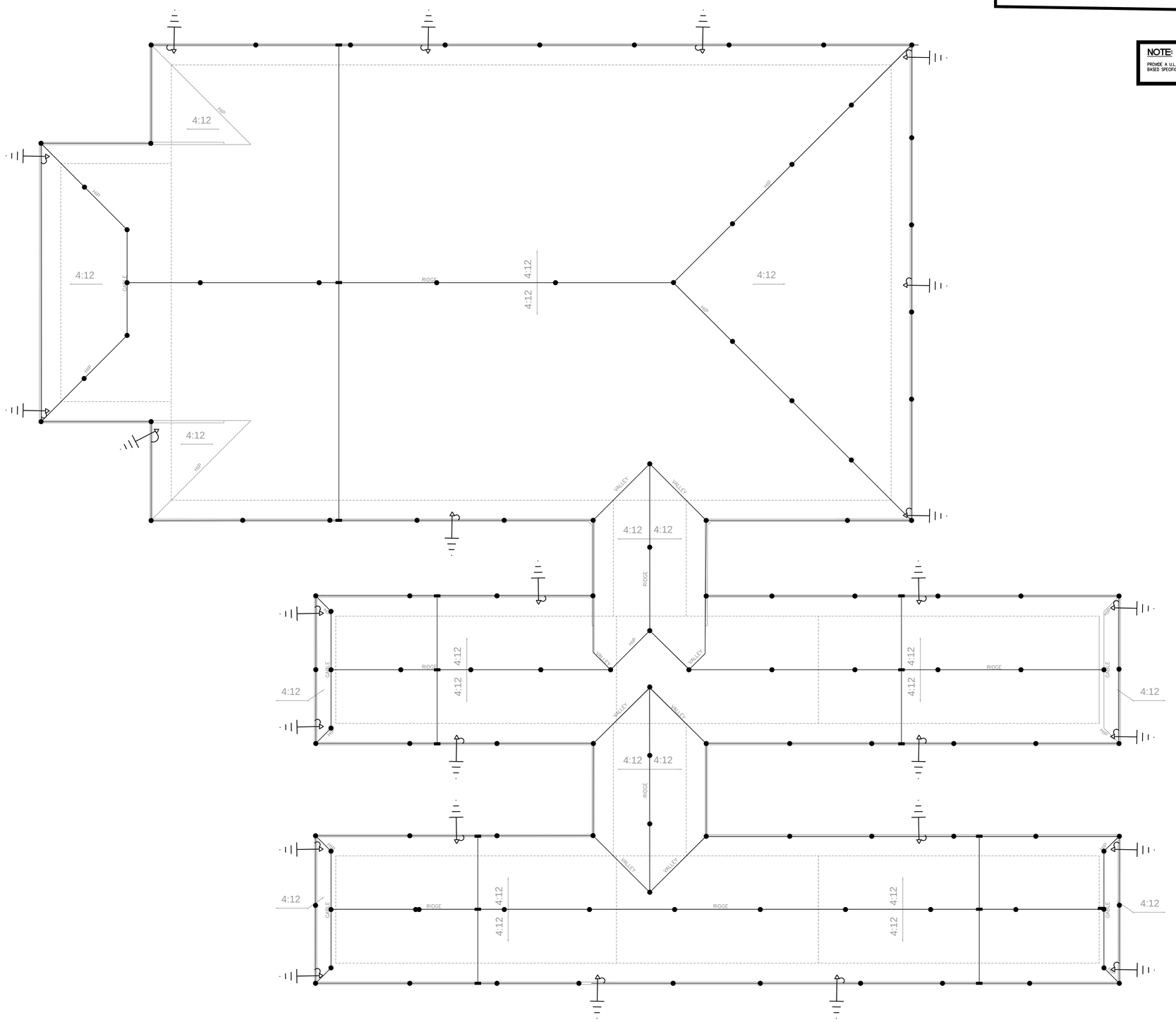
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SHEET NO:
E3.2

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800 S. ORLANDO AVE., SUITE 100
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FL. REG. NO.: PE58402

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LIGHTNING PROTECTION SYSTEM NOTE:

1. THIS CONTRACTOR SHALL PROVIDE A NFPA CLASS I, LPI MASTER LABELED LIGHTNING PROTECTION SYSTEM FOR THIS BUILDING IN ACCORDANCE WITH UL 96A AND NFPA 780. REFER TO SPECIFICATION SECTION 264113 FOR MORE INFORMATION.
2. THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE ENGINEERS REVIEW. SUBMITTAL SHALL INCLUDE CUT SHEETS OF ALL LIGHTNING PROTECTION SYSTEMS COMPONENTS AND A ROOF PLAN BLUEPRINT SHOWING THE LAYOUT OF THE LIGHTNING PROTECTION SYSTEM.
3. BOND TO ALL COMPONENTS ON THE ROOF (I.E. PLUMBING VENTS, ROOF DRAINS, EXHAUST FANS, ETC.) WITH FULL SIZE CONDUCTORS.
4. INSTALL CONDUCTORS WITH DIRECT PATHS FROM AIR TERMINALS TO GROUND CONNECTORS. AVOID SHARP BENDS AND NARROW LOOPS.
5. AIR TERMINALS AND MAIN CONDUCTOR MATERIAL ON ROOF SHALL MATCH THE ROOF SYSTEM FLASHING.
6. ALL DOWN CONDUCTORS SHALL BE COPPER AND FULL SIZE.

NOTE:

PROVIDE A U.L. MASTER LABEL LIGHTNING PROTECTION SYSTEM. PERFORMANCE BASED SPECIFICATION.

1 ROOF PLAN - LIGHTNING PROTECTION

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

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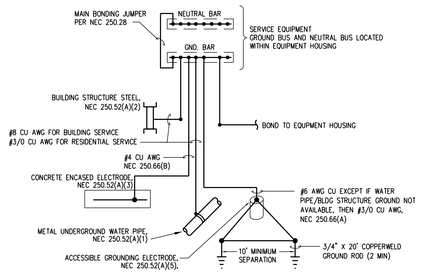
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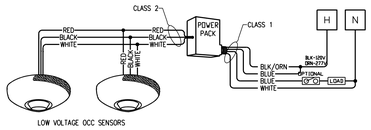
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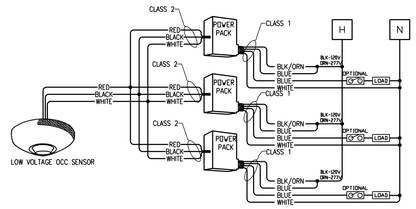
NOTE:
ALL GROUNDING ELECTRODES SPECIFIED IN NEC 250.52(A)(1) THRU (A)(7) THAT ARE PRESENT ON SITE SHALL BE BONDED TOGETHER AND USED. IF NONE OF THESE GROUNDING ELECTRODES ARE PRESENT, ONE OR MORE OF THE "MADE" ELECTRODES SPECIFIED IN 250.52(A)(4) THRU (A)(8) SHALL BE INSTALLED AND USED.



1 E5.1 TYPICAL SERVICE GROUNDING DETAIL
N.T.S.

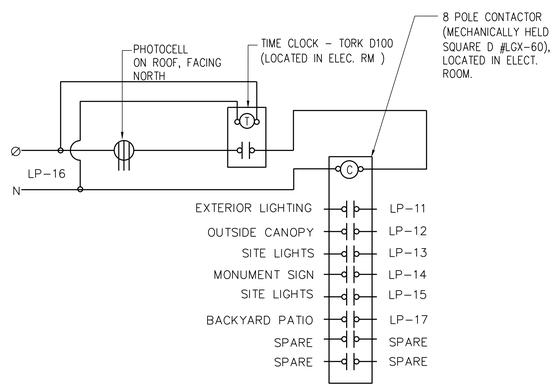


2 E5.1 MULTIPLE LOW VOLTAGE OCC SENSORS W/ POWER PACK
N.T.S.

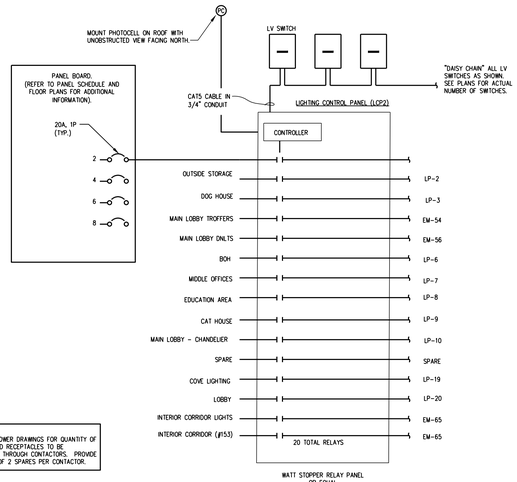


3 E5.1 LOW VOLTAGE OCC SENSOR W/ MULTIPLE POWER PACKS
N.T.S.

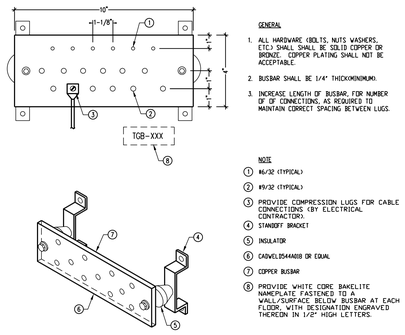
NOTE:
REFER TO POWER DRAWINGS FOR QUANTITY OF CIRCUITS AND LIGHTING TO BE CONTROLLED THROUGH CONTACTORS. PROVIDE A MINIMUM OF 2 SPARES PER CONTACTOR.



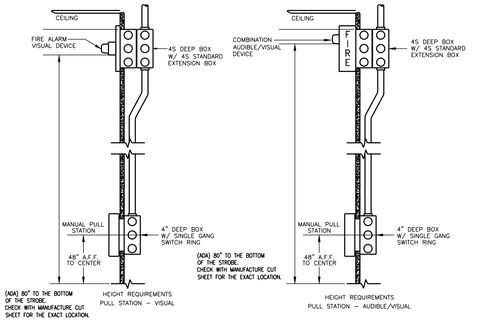
4 E5.1 EXTERIOR LIGHTING CONTACTOR WITH PHOTOCELL DETAIL
CONTACTOR N.T.S.



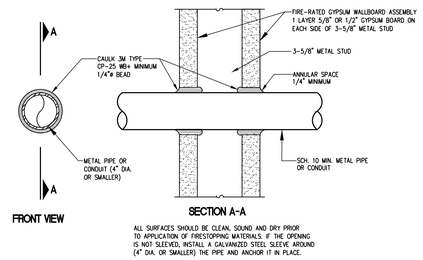
5 E5.1 LIGHTING CONTROL PANEL WIRING DIAGRAM
N.T.S.



6 E5.1 TYPICAL GROUND BUS BAR
N.T.S.

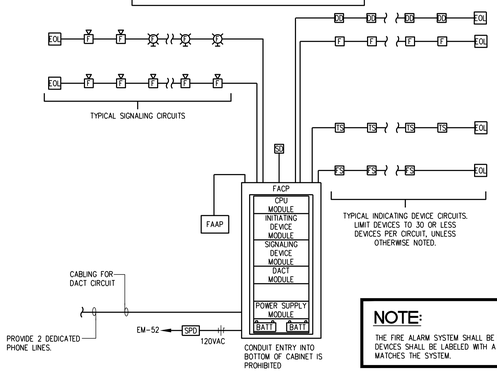


7 E5.1 WALL MOUNTED FIRE ALARM DEVICE MOUNTING
N.T.S.



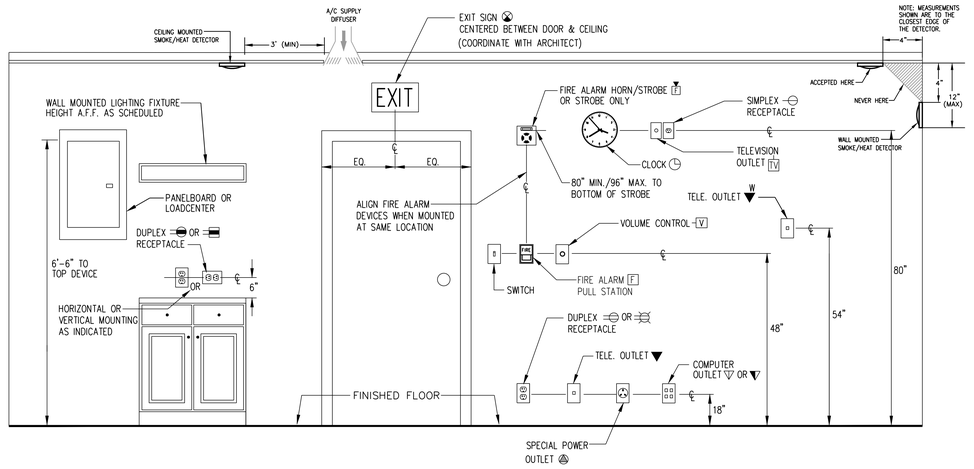
8 E5.1 ONE HOUR FIREWALL PENETRATION DETAIL
N.T.S.

NOTE:
1. SEPARATE ZONES & FUNCTIONS MAY BE RUN IN THE SAME CONDUIT.
2. MINIMUM CONDUIT SIZE SHALL BE 3/4".
3. PROVIDE ACTUAL CONDUIT SIZE REQUIRED ON SHOP DRAWINGS.
4. WIRING SHALL BE MINIMUM SIZE #16 THHN CU.
5. ALL CONDUIT SHALL BE FURNISHED WITH NYLON PULL STRING.
6. ALL CABLE SHALL HAVE ZONE NUMBER AT BOTH ENDS, AND ALL RETURN CABLE SHALL BE TAPED.
7. VERIFY QUANTITY TYPE, & ARRANGEMENT OF DEVICES REQUIRED ON PLAN DRAWINGS. THIS DWG FOR SCHEMATIC PURPOSES ONLY.
8. CONTRACTOR SHALL PROVIDE SILENT KNIGHT FACP AND FIRE ALARM APPLIANCES.
9. ALL PULL STATIONS SHALL BE EQUIPPED WITH WEATHER PROOF COVERS.

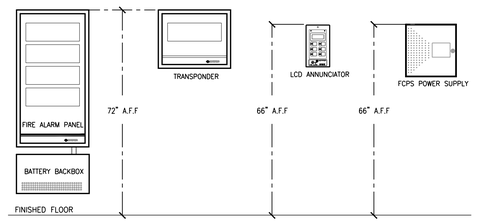


NOTE:
THE FIRE ALARM SYSTEM SHALL BE FULLY ADDRESSABLE. ALL DEVICES SHALL BE LABELED WITH A DEVICE NUMBER THAT MATCHES THE SYSTEM.

9 5.1 FIRE ALARM RISER DIAGRAM
N.T.S.



10 E5.1 TYPICAL ELECTRICAL ELEVATIONS
N.T.S.



11 5.1 FIRE ALARM PANEL ELEVATIONS
SCALE: N.T.S.

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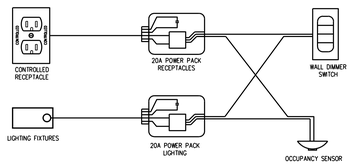
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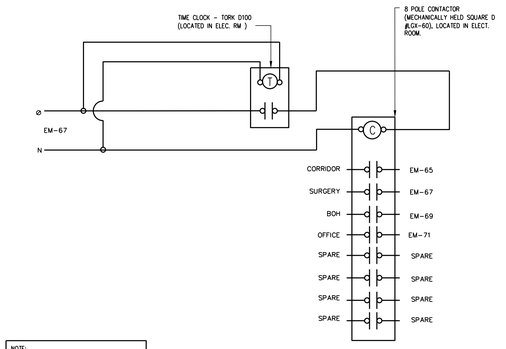
GENERAL NOTES

1. PROVIDE 120V RECEPTACLE CIRCUIT CONTROLS PER 2017 FBC ENERGY SECTION 405.6.1 & ASHRAE 90.1-2013 8.4.2 IN ALL PRIVATE OFFICES, CONFERENCE ROOMS, PRINTING/COPYING ROOMS, BREAKROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS. RECEPTACLES DESIGNATED "CR" INDICATES A CONTROLLED RECEPTACLE. THESE RECEPTACLES SHALL BE PERMANENTLY MARKED TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES. REFER TO DETAIL '1' ON THIS SHEET FOR A TYPICAL CONTROLS WIRING DIAGRAM.
2. THIS CONTRACTOR SHALL ENGAGE AN INDEPENDENT THIRD PARTY CONTROLS CONTRACTOR TO PROVIDE THE FUNCTIONAL TESTING AS PER ENERGY CONVERSATION C408.3.1. TESTING SHALL ENSURE THAT THE CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED AND PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.

1 E5.2 TYPICAL RECEPTACLE CONTROL WIRING DIAGRAM

N.T.S.

NOTE:
RECEPTACLE AUTOMATIC SHUTOFF CONTROLS DIAGRAM IS CONCEPTUAL AND DOES NOT LIST ALL REQUIRED COMPONENTS. BASIS OF DESIGN IS LEVITON IRC, WATTSTOPPER, SENSORSWITCH, OR APPROVED EQUAL. LIGHTING & RECEPTACLE CONTROLS SYSTEM SHALL BE COMPLIANT WITH ASHRAE 90.1 +OR 2013 TITLE 24+ REQUIREMENTS. CONTRACTOR SHALL SUBMIT LIGHTING CONTROL MANUFACTURER SHOP DRAWINGS SHOWING ALL NECESSARY COMPONENTS FOR COMPLIANCE WITH RECEPTACLE SHUTOFF CONTROLS REQUIREMENTS.



NOTE:
REFER TO POWER DRAWINGS FOR QUANTITY OF CIRCUITS AND RECEPTACLES TO BE CONTROLLED THROUGH CONTACTORS. PROVIDE A MINIMUM OF 2 SPARES PER CONTACTOR.

5 E5.1 LIGHTING OUTLET CONTACTOR DETAIL

N.T.S.

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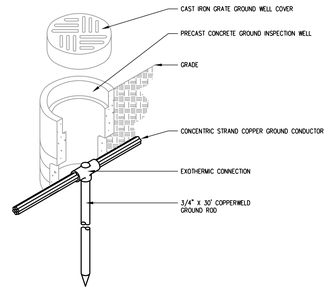
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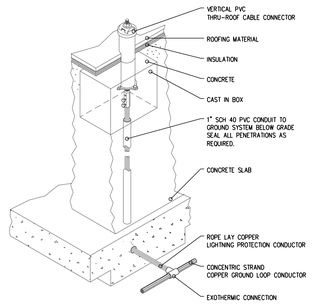
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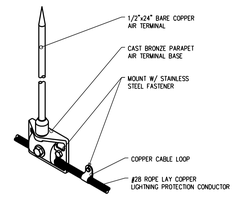
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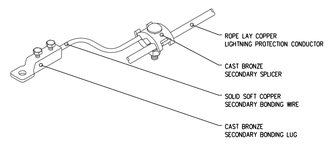
1 E5.2 GROUND INSPECTION WELL
N.T.S.



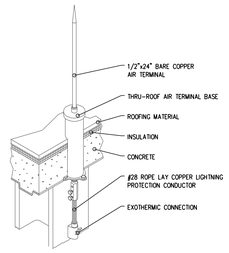
2 E5.2 DOWNLEAD DETAIL
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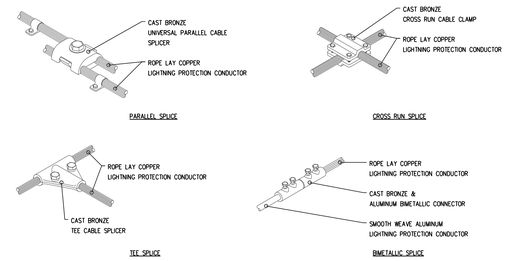
3 E5.2 PARAPET AIR TERMINAL
N.T.S.



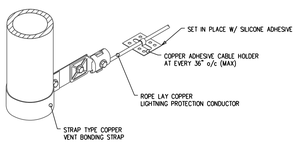
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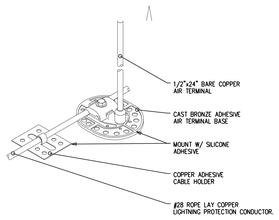
5 E5.2 THRU-ROOF AIR TERMINAL
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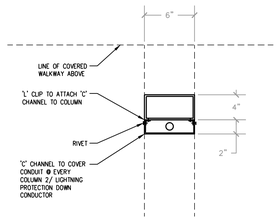
6 E5.2 SPLICING DETAILS
N.T.S.



7 E5.2 VENT BONDING DETAIL
N.T.S.



8 E5.2 MID-ROOF AIR TERMINAL
N.T.S.



9 E5.2 TYPICAL CANOPY LIGHTNING PROTECTION DOWN CONDUCTOR
N.T.S.

1 DETAILS - ELECTRICAL
SCALE: 1/8" = 1'-0"

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MAITLAND, FL. 32751
FL. REG. NO.: PE68402

PRINT DATE:10/29/2019 2:21 PM SAVE DATE:5/9/2019 8:18 AM FILE LOCATION:\LCS\PROJECT DATA\8 JOBS\8529 - LAKE COUNTY ANIMAL SHELTER\DWGS\8529E5.DWG

GENERAL NOTES:

1. BASIS OF DESIGN FOR POWER DISTRIBUTION EQUIMENT IS SQUARE-D. IF CONTRACTOR SUBMITS APPROVED ALTERNATES, CONTRACTOR SHALL VERIFY EQUIPMENT DIMENSIONS MEET NEC WORKING SPACE AND DEDICATED SPACES CLEARANCES PER NEC.
2. PROVIDE FIELD MARKING OF THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SERVICE EQUIPMENT PER NEC 110.24. FIELD MARKING SHALL BE LEGIBLE AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.

KEYNOTES [X]:

[1] #3 /0 CU GEC IN 1"C TO 5 /8" x 10' COPPER WELD GROUND ROD, BUILDING FOOTER REBAR AND MAIN COLD WATER PIPE(GROUND THE NEUTRAL) SEE DETAIL 1-E5.1.

[2] PROVIDE 1-1/4" CONDUIT FROM GENERATOR TO EACH ATS FOR CONTROL WIRING.

[3] COORDINATE EXACT LOCATION OF GENERATOR ANNUNCIATOR PANEL WITH OWNER PRIOR TO ROUGH-IN.

[4] EXISTING 400A GENERATOR OCPD.

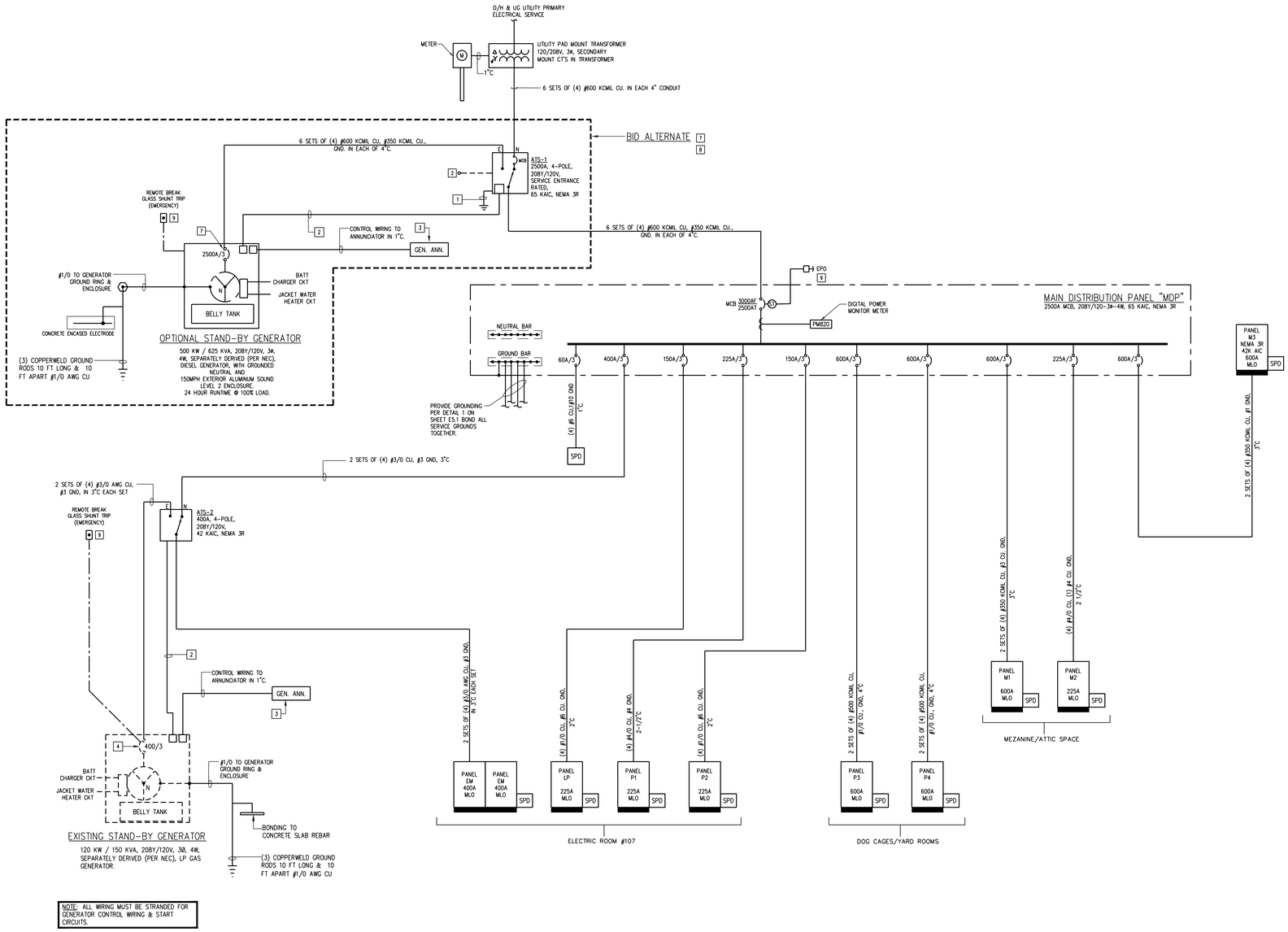
[5] PROVIDE WEATHER PROOF BREAK-GLASS PUSH BUTTON FOR REMOTE SHUT OFF OF GENERATOR. COORDINATE EXACT MOUNTING LOCATION WITH OWNER PRIOR TO ROUGH IN.

[6] GENERATOR SHALL INCLUDE ELECTRONIC, 100% RATED, LSIG ADJUSTABLE, CIRCUIT BREAKERS MOUNTED INSIDE THE GENERATOR ENCLOSURE.

[7] BID ALTERNATE #1 – CONTRACTOR SHALL PROVIDE ADD ALTERNATE PRICING FOR A DIESEL GENERATOR & SERVICE ENTRANCE RATED ATS TO WORK IN CONJUNCTION WITH THE EXISTING GENERATOR SHOWN ON THE DRAWINGS TO BACKUP THE ENTIRE FACILITY. PROVIDE CONTROLS CONNECTION FROM SERVICE ENTRANCE ATS TO 400A ATS FOR SWITCHING SEQUENCING CONTROLS.

[8] BID ALTERNATE #2 – CONTRACTOR SHALL PROVIDE ADD ALTERNATE PRICING FOR A NEW 900 KW DIESEL GENERATOR & 2500A SERVICE ENTRANCE RATED ATS TO BACKUP THE ENTIRE FACILITY. CONTRACTOR SHALL INCLUDE PRICING TO REMOVE THE EXISTING 120KW GENERATOR AND 400A ATS AND TURN OVER TO OWNER. THIS IS FOR ROM PRICING ONLY, DESIGN DRAWINGS WILL REQUIRE UPDATING TO SHOW ACCURATE GENERATOR & ATS SIZE AND ALL ASSOCIATED FEEDERS AND CONDUITS, ETC.

[9] PROVIDE WEATHER PROOF BREAK-GLASS PUSH BUTTON FOR SHUNT TRIP OF MAIN SWITCHBOARD. MOUNT OUTSIDE BUILDING AT 72" AFG.



NOTE: ALL WIRING MUST BE STRANDED FOR GENERATOR CONTROL WIRING & START CIRCUITS.

1 ONE LINE DIAGRAM ELECTRICAL

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

DICKERSON ARCHITECTS, INC.
PO BOX 492256 LEESBURG, FL 34749-2256
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LICENSE NO. AA0000592

RECORD SET

LAKE COUNTY ANIMAL SHELTER

TAVARES, LAKE COUNTY, FL

DATE 10-29-2019
DRAWN
CHECKED
REVISIONS

1717 PROJECT

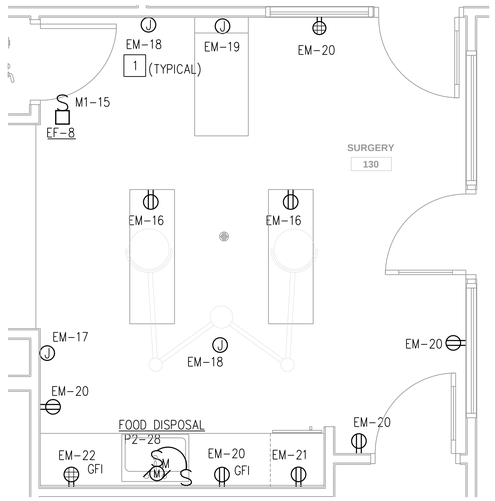
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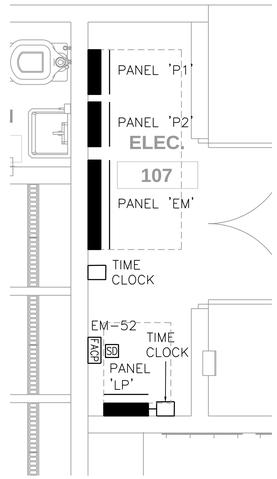
ENGINEER, G. LATSIS
800 S. ORLANDO AVE. SUITE 100
MAITLAND, FL. 32751
FL REG. NO.: PE68402

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1 SURGERY ROOM - POWER

SCALE: 1/2" = 1'-0"



2 ELECTRICAL ROOM - POWER

SCALE: 1/2" = 1'-0"

POWER GENERAL NOTES:

1. COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND ACCEPTED MILLWORK SHOP DRAWINGS.
2. LOCATION OF ALL DEVICES ON DRAWINGS ARE APPROXIMATE ONLY. VERIFY EXACT LOCATION WITH OWNERS REPRESENTATIVE, ARCHITECT, AND/OR ENGINEER PRIOR TO ROUGH-IN.
3. COORDINATE THE LOCATION OF VOICE/DATA OUTLETS WITH POWER RECEPTACLES ESPECIALLY WHERE COMPUTERS ARE TO BE LOCATED. COORDINATE WITH TECHNOLOGY DRAWINGS.
4. ALL RACEWAYS AND CABLE SHALL BE BE CONCEALED UNLESS NOTED OR APPROVED IN WRITING BY OWNER AND/OR ENGINEER.
5. MOUNT ALL DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT WITHIN 6 FT. OF EQUIPMENT CONNECTION POINT. VERIFY LOCATION OF POINT OF CONNECTION WITH EQUIPMENT INSTALLER PRIOR TO ELECTRICAL ROUGH-IN. (DRAWINGS ONLY SHOW DIAGRAMATIC LOCATION OF CONNECTION).
6. DISCONNECTS SWITCHES AND STARTERS ON MECHANICAL EQUIPMENT ARE SHOWN FOR WIRING PURPOSES ONLY. DISCONNECT SWITCHES AND STARTERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
7. ALL CONTROL WIRING FOR MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.

POWER SHEET KEYNOTES [x] :

[1] RECEPTACLES/QUADS ON EMERGENCY GENERATOR PANEL 'EM' SHALL BE INDICATED WITH RED DEVICE AND RED COVER PLATE.

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RECORD SET

LAKE COUNTY ANIMAL SHELTER

TAVARES, LAKE COUNTY, FL

DATE 10-29-2019
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1717
PROJECT

SHEET NO.
E6.2

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PANEL P1

RATING: 225 A | TYPE: MLO | AIC: 22 KAIC
SERVICE: 208/120V, 3PH, 4W | MOUNTING: SURFACE | LOCATION: ELECTRICAL ROOM

Code	Ckt No.	EQUIPMENT SERVED	KVA	CKT BKR POLE	CKT BKR TRIP	BRANCH CIRCUIT ϕ	BRANCH CIRCUIT N	BRANCH CIRCUIT GND	BRANCH CIRCUIT C	Phase	Ckt	EQUIPMENT SERVED	KVA	CKT BKR POLE	CKT BKR TRIP	BRANCH CIRCUIT ϕ	BRANCH CIRCUIT N	BRANCH CIRCUIT GND	BRANCH CIRCUIT C	Code
R	1	RECP-EDUCATION	0.90	1	20	12	12	12	3/4	A	2	RECP-EDUCATION	0.72	1	20	12	12	12	3/4	R
E	3	PROJECTOR	0.50	1	20	12	12	12	3/4	B	4	SPARE			1	20				
R	5	RECP-CORRIDOR	0.54	1	20	12	12	12	3/4	C	6	RECP-CORRIDOR/CLEAN	0.54	1	20	12	12	12	3/4	R
R	7	RECP-BREAK/PREP/CLEAN	1.08	1	20	12	12	12	3/4	A	8	RECP-LOBBY	0.72	1	20	12	12	12	3/4	R
R	9	RECP-LOBBY	0.90	1	20	12	12	12	3/4	B	10	SPARE			1	20				
R	11	RECP-OFFICE	0.72	1	20	12	12	12	3/4	C	12	SPARE			1	20				
R	13	RECP-IT	0.36	1	20	12	12	12	3/4	A	14	SPARE			1	20				
M	15	FOOD WASTE DISPOSAL	0.76	1	20	12	12	12	3/4	B	16	SPARE			1	20				
	17	SPARE			1	20				C	18	SPARE			1	20				
	19	SPARE			1	20				A	20	SPARE			1	20				
R	21	RECP - T&C STORAGE	1.08	1	20	12	12	12	3/4	B	22	SPARE			1	20				
R	23	RECP - CAT ISOLATION	0.90	1	20	12	12	12	3/4	C	24	RECP-EDUCATION	1.08	1	20	12	12	12	3/4	R
	25	SPARE			1	20				A	26	RCP-1	0.13	1	20	12	12	12	3/4	E
E	27	EWH-2	5.00	3	60	6		10	1"	B	28	SPACE								
E	29	--	5.00			6				C	30	SPACE								
E	31	--	5.00			6				A	32	SPACE								
E	33	EWH-2	5.00	3	60	6		10	1"	B	34	SPACE								
E	35	- -	5.00			6				C	36	SPACE								
E	37	- -	5.00			6				A	38	SPD		3	30	10	10	10	3/4	
E	39	TMV-1	1.00	1	20	12	12	12	3/4	B	40					10				
E	41	PWC-2	0.30	1	20	12	12	12	3/4	C	42					10				

CONNECTED LOAD SUMMARY

PHASE A:	13.9 KVA
PHASE B:	14.2 KVA
PHASE C:	14.1 KVA
PANEL TOTAL LOAD:	**42.2 KVA**

Code	EQUIPMENT SERVED	CONN. LOAD	DF	DESIGN LOAD	REMARKS:
M/3/2	Motors	0.00	100%	0.00	- PROVIDE GROUND BUS & NEUTRAL BUS.
	Largest Motor	0.76	125%	0.95	- PROVIDE TYPE WRITTEN DIRECTORY.
L	Lighting	0.00	125%	0.00	
R	Receptacles (1st 10 kVA)	9.54	100%	9.54	
R	Receptacles (Remaining)		50%		
H	Heating	0.00	100%	0.00	
C	Cooling	0.00	100%	0.00	
E	Equipment	31.93	100%	31.93	
A	Appliances	0.00	100%	0.00	
O	Other	0.00	100%	0.00	
	Spare	8.48	100%	8.48	
			TOTAL kVA	42	
			TOTAL AMPS	118	

PANEL P2

RATING: 225 A | TYPE: MLO | AIC: 22 KAIC
SERVICE: 208/120V, 3PH, 4W | MOUNTING: SURFACE | LOCATION: ELECTRICAL ROOM

Code	Ckt No.	EQUIPMENT SERVED	KVA	CKT BKR POLE	CKT BKR TRIP	BRANCH CIRCUIT ϕ	BRANCH CIRCUIT N	BRANCH CIRCUIT GND	BRANCH CIRCUIT C	Phase	Ckt	EQUIPMENT SERVED	KVA	CKT BKR POLE	CKT BKR TRIP	BRANCH CIRCUIT ϕ	BRANCH CIRCUIT N	BRANCH CIRCUIT GND	BRANCH CIRCUIT C	Code
R	1	RECP-DIRECTOR	0.18	1	20	12	12	12	3/4	A	2	RECP-OPEN OFFICE	0.36	1	20	12	12	12	3/4	R
R	3	RECP-CLOSET/OFFICE	0.54	1	20	12	12	12	3/4	B	4	RECP- RR/BREAK	0.90	1	20	12	12	12	3/4	R
	5	SPARE			1	20				C	6	SPARE			1	20				
E	7	RECP-DOG PRE OP	0.54	1	20	12	12	12	3/4	A	8	RECP-WASHER	1.20	1	20	12	12	12	3/4	E
	9	SPARE			1	20				B	10	SPARE			1	20				
E	11	RECP-DRYER	1.50	2	20	12		12	3/4	C	12	SPARE			1	20				
E	13		1.50			12				A	14	RECP-OUTDOOR/CORR/RR	0.54	1	20	12	12	12	3/4	R
	15	SPARE		1	20					B	16	RECP-SURRENDER	0.36	1	20	12	12	12	3/4	R
R	17	RECP-EVALUATION	0.18	1	20	12	12	12	3/4	C	18	RECP-EVALUATION	0.36	1	20	12	12	12	3/4	R
E	19	RECP-REFR	0.60	1	20	12	12	12	3/4	A	20	RECP-EUTHANASIA	0.36	1	20	12	12	12	3/4	R
	21	SPARE			1	20				B	22	SPARE			1	20				
E	23	RECP-EWC-1	0.37	1	20	12	12	12	3/4	C	24	RECP-FREEZER	0.36	1	20	12	12	12	3/4	R
E	25	PWC-1	0.00	1	20	12	12	12	3/4	A	26	GSV-1	0.50	1	20	12	12	12	3/4	E
	27	SPARE			1	20				B	28	FOOD WASTE DISPOSAL	1.13	1	20	12	12	12	3/4	M
	29	SPACE								C	30	FOOD WASTE DISPOSAL	1.13	1	20	12	12	12	3/4	M
	31	SPACE								A	32	SPARE			1	20				
	33	SPACE								B	34	RECP - OP/STORAGE/RISE	0.72	1	20	12	12	12	3/4	R
	35	SPACE								C	36	SPARE			1	20				
R	37	OUTSIDE RECEP	0.36	1	20	12	12	12	3/4	A	38	SPD		3	30	10	10	10	3/4	
	39	SPACE								B	40									
	41	SPACE								C	42									

CONNECTED LOAD SUMMARY

PHASE A:	6.1 KVA
PHASE B:	3.6 KVA
PHASE C:	3.9 KVA
PANEL TOTAL LOAD:	**13.7 KVA**

Code	EQUIPMENT SERVED	CONN. LOAD	DF	DESIGN LOAD	REMARKS:
M/3/2	Motors	1.13	100%	1.13	- PROVIDE GROUND BUS & NEUTRAL BUS.
	Largest Motor	1.13	125%	1.41	- PROVIDE TYPE WRITTEN DIRECTORY.
L	Lighting	0.00	125%	0.00	
R	Receptacles (1st 10 kVA)	5.22	100%	5.22	
R	Receptacles (Remaining)		50%		
H	Heating	0.00	100%	0.00	
C	Cooling	0.00	100%	0.00	
E	Equipment	6.21	100%	6.21	
A	Appliances	0.00	100%	0.00	
O	Other	0.00	100%	0.00	
	Spare	2.79	100%	2.79	
			TOTAL kVA	14	
			TOTAL AMPS	39	

PANEL P3

RATING: 600 A | TYPE: MLO | AIC: 22 KAIC
SERVICE: 208/120V, 3PH, 4W | MOUNTING: SURFACE | LOCATION: MECHANICAL RM 176

Code	Ckt No.	EQUIPMENT SERVED	KVA	CKT BKR POLE	CKT BKR TRIP	BRANCH CIRCUIT ϕ	BRANCH CIRCUIT N	BRANCH CIRCUIT GND	BRANCH CIRCUIT C	Phase	Ckt	EQUIPMENT SERVED	KVA	CKT BKR POLE	CKT BKR TRIP	BRANCH CIRCUIT ϕ	BRANCH CIRCUIT N	BRANCH CIRCUIT GND	BRANCH CIRCUIT C	Code
	1	SPARE			1	20				A	2	SPARE			1	20				
R	3	RECP-DOG ADOPT	0.90	1	20	12	12	12	3/4	B	4	RECP-DOG ADOPTION	0.36	1	20	12	12	12	3/4	R
L	5	LTG-DOG ADOPTION	0.27	1	20	12	12	12	3/4	C	6	EF-13	0.30	3	20	12		12	3/4	3
L	7	LTG-DOG ADOPTION	0.57	1	20	12	12	12	3/4	A	8	--	0.30			12				
E	9	EWH-1	1.00	3	20	12		12	3/4	B	10	--	0.30			12				
E	11	--	1.00			12				C	12	EF-15	0.30	3	20	12		12	3/4	3
E	13	--	1.00			12				A	14	--	0.30			12				
	15	SPARE		1	20					B	16	--	0.30			12				
E	17	EWH-1	1.00	3	20	12		12	3/4	C	18	AHU-12	1.16	3	20	12		12	3/4	H
E	19	--	1.00			12				A	20	--	1.16			12				H
E	21	--	1.00			12				B	22	--	1.16			12				H
	23	SPARE		1	20					C	24	AHU-14	1.16	3	20	12		12	3/4	H
M	25	MOTORIZED DAMPERS	1.00	1	20	12	12	12	3/4	A	26	--	1.16			12				H
E	27	BP IONIZATION	0.20	1	20	12	12	12	3/4	B	28	- -	1.16			12				H
H	29	EDH-12	8.66	3	100	3		8	1 1/4	C	30	CU-12	8.35	3	110	2		6	1 1/2	C
H	31	--	8.66			3				A	32	--	8.35			2				C
H	33	--	8.66			3				B	34	--	8.35			2				C
H	35	EDH-14	8.66	3	100	3		8	1 1/4	C	36	CU-14	8.35	3	110	2		6	1 1/2	C
H	37	--	8.66			3				A	38	--	8.35			2				C
H	39	--	8.66			3				B	40	--	8.35			2				C
R	41	RECEP-MECH ROOM	0.36	1	20	12	12	12	3/4	C	42	SPACE								
	43									A	44	SPARE		1	20					
	45									B	46	SPARE		1	20					
	47									C	48	SPARE		1	20					
	49									A	50	SPD		3	30	10	10	10	3/4	
	51									B	52					10				
	53									C	54					10				

CONNECTED LOAD SUMMARY

PHASE A:	40.5 KVA
PHASE B:	40.4 KVA
PHASE C:	39.6 KVA
PANEL TOTAL LOAD:	**120.5 KVA**

Code	EQUIPMENT SERVED	CONN. LOAD	DF	DESIGN LOAD	REMARKS:
M/3/2	Motors	1.80	100%	1.80	- PROVIDE GROUND BUS & NEUTRAL BUS.
	Largest Motor	1.00	125%	1.25	- PROVIDE TYPE WRITTEN DIRECTORY.
L	Lighting	0.84	125%	1.05	
R	Receptacles (1st 10 kVA)	1.62	100%	1.62	
R	Receptacles (Remaining)		50%		
H	Heating	58.93	100%	58.93	
C	Cooling	50.11	100%	50.11	
E	Equipment	6.20	100%	6.20	
A	Appliances	0.00	100%	0.00	
O	Other	0.00	100%	0.00	
	Spare	14.17	100%	14.17	
			TOTAL kVA	121	
			TOTAL AMPS	336	

PANEL P4

RATING: 600 A | TYPE: MLO | AIC: 22 KAIC
SERVICE: 208/120V, 3PH, 4W | MOUNTING: SURFACE | LOCATION: MECHANICAL RM 174

Code	Ckt No.	EQUIPMENT SERVED	KVA	CKT BKR POLE	CKT BKR TRIP	BRANCH CIRCUIT ϕ	BRANCH CIRCUIT N	BRANCH CIRCUIT GND	BRANCH CIRCUIT C	Phase	Ckt	EQUIPMENT SERVED	KVA	CKT BKR POLE	CKT BKR TRIP	BRANCH CIRCUIT ϕ	BRANCH CIRCUIT N	BRANCH CIRCUIT GND	BRANCH CIRCUIT C	Code
R	1	SPARE		1	20					A	2	RECP-DOG ADOPT	0.54	1	20	12	12	12	3/4	R
L	3	RECP-DOG ADOPT	0.54	1	20	12	12	12	3/4	B	4	RECP-DOG ADOPTION	0.36	1	20	12	12	12	3/4	R
L	5	LTG-DOG ADOPTION	0.57	1	20	12	12	12	3/4	C	6	EF-14	0.29	3	20	12		12	3/4	3
H	7	LTG-DOG ADOPTION	0.27	1	20	12	12	12	3/4	A	8	- -	0.29			12				
	9	SPARE		1	20	12		12	3/4	B	10	- -	0.29			12				
	11	SPARE		1	20	12				C	12	EF-16	0.29	3	20	12		12	3/4	3
	13	SPARE		1	20	12		12	3/4	A	14	- -	0.29			12				
	15	SPARE		1	20	12				B	16	- -	0.29			12				
R	17	OUTDOOR RECP	0.18	1	20	12	12	12	3/4	C	18	AHU-13	1.16	3	20	12		12	3/4	H
E	19	EWH-1	1.00	3	20	12		12	3/4	A	20	- -	1.16			12				H
E	21	--	1.00			12				B	22	- -	1.16			12				H
E	23	--	1.00			12				C	24	AHU-15	1.16	3	20	12		12	3/4	H
E	25	MOTORIZED DAMPERS	1.00	1	20	12	12	12	3/4	A	26	- -	1.16			12				H
H	27	BP IONIZATION	0.20	1	20	12	12	12	3/4	B	28	- -	1.16			12				H
H	29	EDH-13	8.66	3	100	3		8	1 1/4	C	30	CU-13	8.35	3	110	2		6	1 1/2	C
H	31	- -	8.66			3				A	32	- -	8.35			2				C
H	33	- -	8.66			3				B	34	- -	8.35			2				C
H	35	EDH-15	8.66	3	100	3		8	1 1/4	C	36	CU-15	8.35	3	110	2		6	1 1/2	C
H	37	- -	8.66			3				A	38	- -	8.35			2				C
H	39	- -	8.66			3				B	40	- -	8.35			2				C
	41	POOL PANEL								C	42	EWH-1	1.00	3	20	12		12	3/4	H
	43									A	44	--	1.00		20	12				H
	45									B	46	--	1.00			12				H
R	47	RECEP-MECH ROOM	0.36	1	20	12	12	12	3/4	C	48	SPARE		1	20					
	49	SPACE								A	50	SPD		3	30	10	10	10	3/4	
	51	SPACE								B	52					10				
	53	SPACE								C	54					10				

CONNECTED LOAD SUMMARY

PHASE A:	40.7 KVA
PHASE B:	40.0 KVA
PHASE C:	40.0 KVA
PANEL TOTAL LOAD:	**120.8 KVA**

Code	EQUIPMENT SERVED	CONN. LOAD	DF	DESIGN LOAD	REMARKS:
M/3/2	Motors	0.87	100%	0.87	- PROVIDE GROUND BUS & NEUTRAL BUS.
	Largest Motor	0.87	125%	1.09	- PROVIDE TYPE WRITTEN DIRECTORY.
L	Lighting	1.11	125%	1.39	
R	Receptacles (1st 10 kVA)	1.44	100%	1.44	
R	Receptacles (Remaining)		50%		
H	Heating	62.40	100%	62.40	
C	Cooling	50.11	100%	50.11	
E	Equipment	4.00	100%	4.00	
A	Appliances	0.00	100%	0.00	
O	Other	0.00	100%	0.00	
	Spare	14.24	100%	14.24	
			TOTAL kVA	121	
			TOTAL AMPS	337	

PANEL LP

RATING: 225 A | TYPE: MLO | AIC: 22 KAIC
SERVICE: 208/120V, 3PH, 4W | MOUNTING: SURFACE | LOCATION: ELECTRICAL ROOM

Code	Ckt No.	EQUIPMENT SERVED	KVA	CKT BKR POLE	CKT BKR TRIP	BRANCH CIRCUIT ϕ	BRANCH CIRCUIT N	BRANCH CIRCUIT GND	BRANCH CIRCUIT C	Phase	Ckt	EQUIPMENT SERVED	KVA	CKT BKR POLE	CKT BKR TRIP	BRANCH CIRCUIT ϕ	BRANCH CIRCUIT N	BRANCH CIRCUIT GND	BRANCH CIRCUIT C	Code
L	1	CORRIDOR	0.83	1	20	12	12	12	3/4	A	2	OUTSIDE STORAGE	0.16	1	20	12	12	12	3/4	L
L	3	DOG HOUSE	0.35	1	20	12	12	12	3/4	B	4	SPACE								L
	5	SPARE		1	20					C	6	BOH	1.30	1	20	12	12	12	3/4	L
L	7	MIDDLE OFFICES	1.02	1	20	12	12	12	3/4	A	8	EDUCATION AREA	1.07	1	20	12	12	12	3/4	L
L	9	CAT HOUSE	1.18	1	20	12	12	12	3/4	B	10	MAIN LOBBY	0.11	1	20	12	12	12	3/4	L
L	11	OUTSIDE FRONT	0.14	1	20	10	10	10	3/4	C	12	EXTERIOR CANOPY DNLTS	0.75	1	20	10	10	10	10	L
L	13	SITE LIGHTING	0.65	1	20	10	10	10	3/4	A	14	MONUMENTAL SIGN	0.50	1	20	10	10	10	3/4	L
L	15	SITE LIGHTING	1.43	1	20	12	12	12	3/4	B	16	TIME CLOCK	0.50	1	20	12	12	12	3/4	E
L	17	BACKYARD PATIO	0.34	1	20	12	12	12	3/4	C	18	TIME CLOCK	0.50	1	20	12	12	12	3/4	E
L	19	LOBBY LIGHTING	0.50	1	20	12	12	12	3/4	A	20	FRONT LOBBY	0.26	1	20	12	12	12	3/4	L
L	21	EXTERIOR LTG	0.30	1	20	10	10	10	3/4	B	22	EXTERIOR DOG VAULT LTG	0.13	1	20	10	10	10	3/4	L
	23	SPARE		1	20					C	24	TIME CLOCK	0.50	1	20	12	12	12	3/4	E
	25	SPARE		1	20					A	26	SPACE								
	27	SPARE		1	20					B	28	SPACE								
	29	SPACE								C	30	SPACE								
	31	SPACE								A	32	SPACE								
	33	SPACE								B	34	SPACE								
	35	SPACE								C	36	SPACE								
	37	SPACE								A	38	SPD		3	30	10	10	10	3/4	
	39	SPACE								B	40					10				
	41	SPACE								C	42					10				

CONNECTED LOAD SUMMARY

PHASE A:	5.0 KVA
PHASE B:	4.0 KVA
PHASE C:	3.5 KVA
PANEL TOTAL LOAD:	**12.5 KVA**

Code	EQUIPMENT SERVED	CONN. LOAD	DF	DESIGN LOAD	REMARKS:
M/3/2	Motors	0.00	100%	0.00	- PROVIDE GROUND BUS & NEUTRAL BUS.
	Largest Motor	0.00	125%	0.00	- PROVIDE TYPE WRITTEN DIRECTORY.
L	Lighting	11.02	125%	13.78	
R	Receptacles (1st 10 kVA)	0.00	100%	0.00	
R	Receptacles (Remaining)		50%		
H	Heating	0.00	100%	0.00	
C	Cooling	0.00	100%	0.00	
E	Equipment	1.50	100%	1.50	
A	Appliances	0.00	100%	0.00	
O	Other	0.00	100%	0.00	
	Spare	3.06	100%	3.06	
			TOTAL kVA	15	
			TOTAL AMPS	42	

1 PANEL SCHEDULES - ELECTRICAL

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

P1	P2	P3
P4	LP	

DICKERSON ARCHITECTS, INC.
PO BOX 492256 LEESBURG, FL 34749-2256
(352) 787-1818 (352) 787-1819
EMAIL: JBDARCH1@AOL.COM
LICENSE NO. AA0000592

RECORD SET

LAKE COUNTY ANIMAL SHELTER
TAVARES, LAKE COUNTY, FL

DATE
DRAWN
CHECKED
REVISIONS
10-29-2019

1717
PROJECT

SHEET NO.
E7.1

RECORD SET
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PANEL EM

RATING: 400 A | TYPE: MLO | AIC: 22 KAIC
SERVICE: 208/120V, 3PH, 4W | MOUNTING: SURFACE | LOCATION: ELECTRICAL ROOM

Code	Ckt No.	EQUIPMENT SERVED	KVA	CKT BKR POLE	CKT BKR TRIP	BRANCH CIRCUIT ϕ	BRANCH CIRCUIT N	BRANCH CIRCUIT GND	BRANCH CIRCUIT C	Phase	Ckt No.	EQUIPMENT SERVED	KVA	CKT BKR POLE	CKT BKR TRIP	BRANCH CIRCUIT ϕ	BRANCH CIRCUIT N	BRANCH CIRCUIT GND	BRANCH CIRCUIT C	Code
R	1	REC - LOBBY	0.90	1	20	12	12	12	3/4	A	2	EWC-2 RESTROOM	0.37	1	20	12	12	12	3/4	C
R	3	REFR. RM 150	0.60	1	20	12	12	12	3/4	B	4	OFFICE RECP RM 139/140	1.08	1	20	12	12	12	3/4	R
R	5	REFR RM 132	0.60	1	20	12	12	12	3/4	C	6	WASHER	1.00	1	20	12	12	12	3/4	E
E	7	DRYER	2.00	1	25	10	10	10	3/4	A	8	OFFICE RECP RM 137	0.90	1	20	12	12	12	3/4	R
E	9	SPARE		1	20					B	10	OFFICE RECP RM 141/142	1.08	1	20	12	12	12	3/4	R
R	11	OFFICE RECP RM 135	0.72	1	20	12	12	12	3/4	C	12	WASHER	1.00	2	30	10		10	3/4	E
R	13	DRYER	1.00	1	20	12	12	12	3/4	A	14	- -	1.00			10				E
R	15	REC - CORRIDOR/VENDING	0.90	1	20	12	12	12	3/4	B	16	SURGERICAL TABLES	0.50	1	20	12	12	12	3/4	E
E	17	X-RAY	0.50	1	20	12	12	12	3/4	C	18	SURGERY LIGHTS	0.50	1	20	12	12	12	3/4	L
E	19	SURGERICAL EQUIP	0.50	1	20	12	12	12	3/4	A	20	SURGERY RECP.	0.90	1	20	12	12	12	3/4	R
E	21	SURGERY REFR.	0.60	1	20	12	12	12	3/4	B	22	AUTOCLAVE	0.30	1	20	12	12	12	3/4	E
L	23	LOBBY LTG	0.02	1	20	12	12	12	3/4	C	24	SPACE								
	25	SPARE		1	20					A	26	SPACE								
	27	SPARE		1	20					B	28	SPACE								
H	29	AHU-3	7.39	3	80	4		8	1"	C	30	CU-3	3.17	3	45	8		10	1	C
H	31	- -	7.39			4				A	32	- -	3.17			8				C
H	33	- -	7.39			4				B	34	- -	3.17			8				C
	35	SPARE		1	20					C	36	CU-4	1.34	3	20	12		12	3/4	C
	37	SPARE		1	20					A	38	- -	1.34			12				C
H	39	AHU-5	1.79	2	25	10		10	3/4	B	40	- -	1.34			12				C
H	41	- -	1.79			10				C	42	CU-5	1.25	2	20	12		12	3/4	C
H	43	AHU-6	1.79	2	25	10		10	3/4	A	44	- -	1.25			12				C
H	45	- -	1.79			10				B	46	CU-6	1.16	2	25	10		10	3/4	C
C	47	AC-1-CU	1.58	2	30	10		10	3/4	C	48	- -	1.16			10				C
C	49	- -	1.58			10				A	50	TIME CLOCK	0.50	1	20	12	12	12	3/4	E
	51	SPACE								B	52	FACP	0.50	1	20	12	12	12	3/4	E
E	53	BP IONIZATION AHU-3	0.10	1	20	12	12	12	3/4	C	54	LED TROFFERS LOBBY	0.63	1	20	12	12	12	3/4	L
E	55	BP IONIZATION AHU-4	0.10	1	20	12	12	12	3/4	A	56	LED DN.LTS LOBBY	0.63	1	20	12	12	12	3/4	L
E	57	BP IONIZATION AHU-5	0.10	1	20	12	12	12	3/4	B	58	LIFT PUMP	5.80	3	90	3		3	1 1/4	3
R	59	OUTDOOR RECP	0.18	1	20	12	12	12	3/4	C	60	- -	5.80			3				
R	61	ATTIC RECPE	1.08	1	20	12	12	12	3/4	A	62	- -	5.80			3				
	63	SPACE								B	64									
L	65	CORRIDOR LTG	0.99	1	20	12	12	12	3/4	C	66	CARD READER	0.50	1	20	12	12	12	3/4	E
L	67	SURGERY LTG	0.54	1	20	12	12	12	3/4	A	68	KEYPAD/INTERCOM	0.10	1	20	12	12	12	3/4	E
L	69	EUTHAN/LAUNDRY	0.29	1	20	12	12	12	3/4	B	70	CARD READER	0.50	1	20	12	12	12	3/4	E
L	71	OFFICE	0.54	1	20	12	12	12	3/4	C	72	I.T. ROOM	1.08	1	20	12	12	12	3/4	E
E	73	BP IONIZATION AHU-6	0.10	1	20	12	12	12	3/4	A	74	I.T. ROOM	0.36	1	20	12	12	12	3/4	E
H	75	AHU-4	4.03	3	45	8		10	1	B	76	I.T. ROOM	0.36	1	20	12	12	12	3/4	E
H	77	- -	4.03			8				C	78	SPACE								
H	79	- -	4.03			8				A	80	SPD		3	30	10	10	10	3/4	
	81									B	82					10				
	83									C	84					10				

CONNECTED LOAD SUMMARY

PHASE A:	37.3 KVA
PHASE B:	33.3 KVA
PHASE C:	35.9 KVA
PANEL TOTAL LOAD:	**106.5 KVA**

Code	EQUIPMENT SERVED	CONN. LOAD	DF	DESIGN LOAD	REMARKS:
M/3/2	Motors	0.00	100%	0.00	- PROVIDE GROUND BUS & NEUTRAL BUS.
	Largest Motor	17.39	125%	21.74	- PROVIDE TYPE WRITTEN DIRECTORY.
L	Lighting	4.14	125%	5.18	
R	Receptacles (1st 10 kVA)	9.94	100%	9.94	
R	Receptacles (Remaining)		50%		
H	Heating	41.43	100%	41.43	
C	Cooling	21.89	100%	21.89	
E	Equipment	11.70	100%	11.70	
A	Appliances	0.00	100%	0.00	
O	Other	0.00	100%	0.00	
	Spare	18.00	100%	18.00	
			TOTAL kVA	112	
			TOTAL AMPS	311	

PANEL M1

RATING: 600 A | TYPE: MLO | AIC: 22 KAIC
SERVICE: 208/120V, 3PH, 4W | MOUNTING: SURFACE | LOCATION: ATTIC

Code	Ckt No.	EQUIPMENT SERVED	KVA	CKT BKR POLE	CKT BKR TRIP	BRANCH CIRCUIT ϕ	BRANCH CIRCUIT N	BRANCH CIRCUIT GND	BRANCH CIRCUIT C	Phase	Ckt No.	EQUIPMENT SERVED	KVA	CKT BKR POLE	CKT BKR TRIP	BRANCH CIRCUIT ϕ	BRANCH CIRCUIT N	BRANCH CIRCUIT GND	BRANCH CIRCUIT C	Code
M	1	EF-1	0.13	1	20	12	12	12	3/4	A	2	EF-8	0.55	3	20	12		12	3/4	3
M	3	EF-2	0.17	1	20	12	12	12	3/4	B	4	- -	0.55			12				
M	5	EF-3	0.17	1	20	12	12	12	3/4	C	6	- -	0.55			12				
	7	SPARE		1	20					A	8	EF-9	0.58	3	20	12		12	3/4	3
M	9	EF-4	0.08	1	20	12	12	12	3/4	B	10	- -	0.58			12				
M	11	EF-5	0.14	1	20	12	12	12	3/4	C	12	- -	0.58			12				
M	13	EF-6	0.14	1	20	12	12	12	3/4	A	14	EF-10	0.58	3	20	12		12	3/4	3
M	15	EF-7	0.14	1	20	12	12	12	3/4	B	16	- -	0.58			12				
	17									C	18	- -	0.58			12				
	19									A	20	EF-11	0.83	3	20	12		12	3/4	3
	21									B	22	- -	0.83			12				
H	23	EDH-7	11.30	3	125	1		6	2	C	24	- -	0.83			12				
H	25	- -	11.30			1				A	26	EF-12	1.32	3	20	12		12	3/4	3
H	27	- -	11.30			1				B	28	- -	1.32			12				
H	29	EDH-8	8.33	3	90	3		8	1 1/4	C	30	- -	1.32			12				
H	31	- -	8.33			3				A	32	EDH-9	7.00	2	80	4		8	1 1/4	H
H	33	- -	8.33			3				B	34	- -	7.00			4				H
H	35	EDH-10	7.00	3	80	4		8	1 1/4	C	36	- -	7.00			4				H
H	37	- -	7.00			4				A	38	SPARE		1	20					
H	39	- -	7.00			4				B	40	SPARE		1	20					
	41	SPARE		1	20	1				C	42	SPARE		1	20					
	43	SPARE		1	20	1				A	44	SPACE								
H	45	EDH-11	5.00	3	60	6		10	1 1/4	B	46	SPACE								
H	47	- -	5.00			6				C	48	SPACE								
H	49	- -	5.00			6				A	50	SPD		3	30	10	10	10	3/4	
	51	SPACE								B	52					10				
	53	SPACE								C	54					10				

CONNECTED LOAD SUMMARY

PHASE A:	42.8 KVA
PHASE B:	42.9 KVA
PHASE C:	42.8 KVA
PANEL TOTAL LOAD:	**128.4 KVA**

Code	EQUIPMENT SERVED	CONN. LOAD	DF	DESIGN LOAD	REMARKS:
M/3/2	Motors	8.56	100%	8.56	- PROVIDE GROUND BUS & NEUTRAL BUS.
	Largest Motor	3.96	125%	4.95	- PROVIDE TYPE WRITTEN DIRECTORY.
L	Lighting	0.00	125%	0.00	
R	Receptacles (1st 10 kVA)	0.00	100%	0.00	
R	Receptacles (Remaining)		50%		
H	Heating	115.89	100%	115.89	
C	Cooling	0.00	100%	0.00	
E	Equipment	0.00	100%	0.00	
A	Appliances	0.00	100%	0.00	
O	Other	0.00	100%	0.00	
	Spare	25.88	100%	25.88	
			TOTAL kVA	129	
			TOTAL AMPS	359	

PANEL M2

RATING: 225 A | TYPE: MLO | AIC: 22 KAIC
SERVICE: 208/120V, 3PH, 4W | MOUNTING: SURFACE | LOCATION: ATTIC

Code	Ckt No.	EQUIPMENT SERVED	KVA	CKT BKR POLE	CKT BKR TRIP	BRANCH CIRCUIT ϕ	BRANCH CIRCUIT N	BRANCH CIRCUIT GND	BRANCH CIRCUIT C	Phase	Ckt No.	EQUIPMENT SERVED	KVA	CKT BKR POLE	CKT BKR TRIP	BRANCH CIRCUIT ϕ	BRANCH CIRCUIT N	BRANCH CIRCUIT GND	BRANCH CIRCUIT C	Code
	1	SPARE		1	20					A	2	AHU-8	1.12	3	20	12		12	3/4	H
	3	SPARE		1	20					B	4	- -	1.12			12				H
H	5	AHU-7	2.20	3	40	8		10	1	C	6	- -	1.12			12				H
H	7	- -	2.20			8				A	8	AHU-9	0.62	3	15	12		12	3/4	H
H	9	- -	2.20			8				B	10	- -	0.62			12				H
M	11	MOTORIZED DAMPERS	0.75	1	20	12	12	12	3/4	C	12	- -	0.62			12				H
E	13	BP IONIZATION	0.30	1	20	12	12	12	3/4	A	14	AHU-10	0.62	3	15	12		12	3/4	H
E	15	BP IONIZATION	0.20	1	20	12	12	12	3/4	B	16	- -	0.62			12				H
M	17	MOTORIZED DAMPERS	1.00	1	20	12	12	12	3/4	C	18	- -	0.62			12				H
H	19	AHU-1	4.42	3	50	8		10	1	A	20	AHU-11	1.02	3	15	12		12	3/4	H
H	21	- -	4.42			8				B	22	- -	1.02			12				H
H	23	- -	4.42			8				C	24	- -	1.02			12				H
	25	SPARE		1	20					A	26	AHU-2	4.90	3	60	6		10	1	H
	27	SPARE		1	20					B	28	- -	4.90			6				H
	29	SPARE		1	20					C	30	- -	4.90			6				H
	31	SPARE		1	20					A	32	SPARE		1	20					
	33	SPARE		1	20					B	34	SPARE		1	20					
	35	SPARE		1	20					C	36	SPARE		1	20					
	37	SPARE		1	20					A	38	SPD		3	30	10	10	10	3/4	
	39	SPARE		1	20					B	40					10				
	41	SPARE		1	20					C	42					10				

CONNECTED LOAD SUMMARY

PHASE A:	15.2 KVA
PHASE B:	15.1 KVA
PHASE C:	16.6 KVA
PANEL TOTAL LOAD:	**46.9 KVA**

Code	EQUIPMENT SERVED	CONN. LOAD	DF	DESIGN LOAD	REMARKS:
M/3/2	Motors	0.75	100%	0.75	- PROVIDE GROUND BUS & NEUTRAL BUS.
	Largest Motor	1.00	125%	1.25	- PROVIDE TYPE WRITTEN DIRECTORY.
L	Lighting	0.00	125%	0.00	
R	Receptacles (1st 10 kVA)	0.00	100%	0.00	
R	Receptacles (Remaining)		50%		
H	Heating	44.70	100%	44.70	
C	Cooling	0.00	100%	0.00	
E	Equipment	0.50	100%	0.50	
A	Appliances	0.00	100%	0.00	
O	Other	0.00	100%	0.00	
	Spare	9.44	100%	9.44	
			TOTAL kVA	47	
			TOTAL AMPS	131	

PANEL M3

RATING: 600 A | TYPE: MLO | AIC: 42 KAIC
SERVICE: 208/120V, 3PH, 4W | MOUNTING: SURFACE | LOCATION: EXTERIOR - NEMA 3R

Code	Ckt No.	EQUIPMENT SERVED	KVA	CKT BKR POLE	CKT BKR TRIP	BRANCH CIRCUIT ϕ	BRANCH CIRCUIT N	BRANCH CIRCUIT GND	BRANCH CIRCUIT C	Phase	Ckt No.	EQUIPMENT SERVED	KVA	CKT BKR POLE	CKT BKR TRIP	BRANCH CIRCUIT ϕ	BRANCH CIRCUIT N	BRANCH CIRCUIT GND	BRANCH CIRCUIT C	Code
C	1	CU-1	2.02	3	35	8		10	1	A	2	SPARE		1	20					
C	3		2.02			8				B	4	SPARE		1	20					
C	5		2.02			8				C	6	SPARE		1	20					
C	7	CU-7	11.40	3	150	1/0		6	2	A	8	SPARE		1	20					
C	9		11.40			1/0				B	10	SPARE		1	20					
C	11		11.40			1/0				C	12	SPARE		1	20					
C	13	CU-8	8.06	3	110	2		6	1 1/2	A	14	SPARE		1	20					
C	15	- -	8.06			2				B	16	SPARE		1	20					
C	17	- -	8.06			2				C	18	SPARE		1	20					
C	19	CU-9	6.43	3	110	2		6	1 1/2	A	20	SPARE		1	20					
C	21	- -	6.43			2				B	22	SPARE		1	20					
C	23	- -	6.43			2				C	24	SPARE		1	20					
C	25	CU-10	6.43	3	110	2		6	1 1/2	A	26	SPARE		1	20					
C	27	- -	6.43			2				B	28	SPARE		1	20					
C	29	- -	6.43			2				C	30	SPARE		1	20					
C	31	CU-11	5.28	3	70	4		8	1 1/4	A	32	SPARE		1	20					
C	33	- -	5.28			4				B	34	SPARE		1	20					
C	35	- -	5.28			4				C	36	SPARE		1	20					
C	37	CU-2	3.17	3	45	8		10	1	A	38	SPD		3	30	10	10	10	3/4	
C	39	- -	3.17			8				B	40					10				
C	41	- -	3.17			8				C	42					10				

CONNECTED LOAD SUMMARY

PHASE A:	42.8 KVA
PHASE B:	42.8 KVA
PHASE C:	42.8 KVA
PANEL TOTAL LOAD:	**128.4 KVA**

Code	EQUIPMENT SERVED	CONN. LOAD	DF	DESIGN LOAD	REMARKS:
M/3/2	Motors	0.00	100%	0.00	- PROVIDE GROUND BUS & NEUTRAL BUS.
	Largest Motor	0.00	125%	0.00	- PROVIDE TYPE WRITTEN DIRECTORY.
L	Lighting	0.00	125%	0.00	
R	Receptacles (1st 10 kVA)	0.00	100%	0.00	
R	Receptacles (Remaining)		50%		
H	Heating	0.00	100%	0.00	
C	Cooling	128.36	100%	128.36	
E	Equipment	0.00	100%	0.00	
A	Appliances	0.00	100%	0.00	
O	Other	0.00	100%	0.00	
	Spare	25.67	100%	25.67	
			TOTAL kVA	128	
			TOTAL AMPS	356	

MDP LOAD CALCULATION

SERVICE VOLTAGE IS 208/120V., 3PH., 4W.

PANELS FEEDERS	LIGHTING	RECEPT'L	APPLIANCES	MOTORS	EQUIPMENT	OTHER	HEATING	COOLING		TOTAL	
LP	11.02	0.00	0.00	0.00	1.50	0.00	0.00	0.00		12.52	
P1	0.00	9.54	0.00	0.95	31.93	0.00	0.00	0.00		42.42	
P2	0.00	5.22	0.00	2.54	6.21	0.00	0.00	0.00		13.97	
P3	0.84	1.62	0.00	3.05	6.20	0.00	58.93	50.11		120.75	
P4	1.11	1.44	0.00	1.96	4.00	0.00	62.40	50.11		121.02	
M1	0.00	0.00	0.00	13.51	0.00	0.00	115.89	0.00		129.40	
M2	0.00	0.00	0.00	2.00	0.50	0.00	44.70	0.00		47.20	
M3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128.36		128.36	
EM	4.14	9.94	0.00	21.74	11.70	0.00	41.43	21.89		110.84	
TOTALS	17.12	27.76	0.00	45.74	62.04	0.00	323.34	250.48		726.48	
DEMAND FACTORS	1.25	NEC 220.44	1.00	1.00	1.00	1.00					
DEMAND	21.40	18.88	0.00	45.74	62.04	0.00	323.34	250.48			
							TOTAL DEMAND			**721.88**	KVA
		DEMAND =	**721.88 KVA**		**@ 208/120V, 3PH,4W =**		**2003.9 AMPS**				

1 PANEL SCHEDULES - ELECTRICAL
SCALE: 1/8" = 1'-0"

EM	M1	M2
M3	MDP	

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LICENSE NO. AA0000592

RECORD SET

LAKE COUNTY ANIMAL SHELTER
TAVARES, LAKE COUNTY, FL

DATE 10-29-2019
DRAWN
CHECKED
REVISIONS

1717
PROJECT

SHEET NO.
E7.2

RECORD SET
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CERTIFICATE OF AUTHORIZATION #6261

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