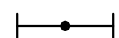

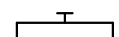

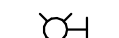






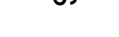











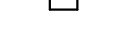





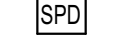


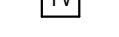

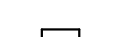


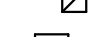

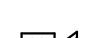
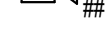

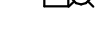

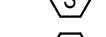
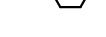


**ELECTRICAL SYMBOLS**

-  INDUSTRIAL STRIP FIXTURE
-  RECESSED, SURFACE OR PENDANT FIXTURE
-  WALL BRACKET FIXTURE
-  RECESSED FIXTURE
-  WALL MOUNTED FIXTURE
-  CEILING MOUNTED EXIT SIGN
-  WALL MOUNTED EXIT SIGN
-  DUAL TECHNOLOGY LINE VOLTAGE OCCUPANCY SENSOR (AUTO-OFF, AUTO-ON)
-  SINGLE POLE TOGGLE SWITCH (3) THREE WAY (4) FOUR WAY (K) KEY (P) PILOT LIGHT (OS) OCCUPANCY SENSOR MOUNT 48" ABOVE FLOOR TO TOP OF BOX.
-  0-10V WALL BOX DIMMER - MOUNT 48" ABOVE FLOOR TO TOP OF BOX. LUTRON NOVA T\* OR EQUAL (UNLESS NOTED OTHERWISE) SIZED AS REQUIRED.
-  SWITCH AND DUPLEX RECEPTACLE IN SAME BOX - MOUNT 48" ABOVE FLOOR TO TOP OF BOX.
-  DUPLEX RECEPTACLE 15" ABOVE FLOOR TO BOTTOM OF BOX OR HEIGHT AS INDICATED
-  DOUBLE DUPLEX RECEPTACLE 15" ABOVE FLOOR TO BOTTOM OF BOX OR HEIGHT AS INDICATED
-  DUPLEX RECEPTACLE HORIZONTAL ABOVE COUNTER
-  FLOOR BOX
-  DEAD FRONT GFCI
-  SPECIAL OUTLET
-  MOTOR
-  DISCONNECT SWITCH
-  JUNCTION BOX
-  ELECTRICAL PANEL
-  VOICE/DATA OUTLET
-  MAIN GROUND BAR
-  SURGE PROTECTION DEVICE
-  WIRELESS ACCESS POINT - COIL 20 FEET OF CAT6 CABLE AT  EXTEND TO DATA RACK.
-  TELEVISION OUTLET 15" ABOVE FLOOR TO BOTTOM OF BOX OR HEIGHT AS INDICATED
-  MICROPHONE JACK - ROUGH-IN ONLY
-  CARD READER - ROUGH IN ONLY - EXTEND 3/4" CONDUIT WITH PULL WIRE TO ACCESSIBLE CEILING.
-  ELECTRIC STRIKE - ROUGH IN ONLY - EXTEND 3/4" CONDUIT WITH PULL WIRE TO ACCESSIBLE CEILING.
-  DOOR POSITION SWITCH - ROUGH IN ONLY - EXTEND 3/4" CONDUIT WITH PULL WIRE TO ACCESSIBLE CEILING.
-  CAMERA - OWNER FURNISHED, OWNER INSTALLED - PROVIDE (1) CAT6
-  DETAIL NUMBER
-  NOTE OR DETAIL SYMBOL
-  SHEET LOCATION

**FIRE ALARM SYMBOLS**

-  FIRE ALARM CONTROL PANEL
-  FIRE ALARM ANNUNCIATOR PANEL
-  FIRE ALARM PULL STATION 48" AFF TO TOP OF BOX
-  HORN 80" AFF TO BOTTOM OF BOX OR 6" DOWN FROM CEILING TO TOP OF BOX WHICHEVER IS LOWER.
-  HORN/STROBE 80" AFF TO BOTTOM OF BOX OR 6" DOWN FROM CEILING TO TOP OF BOX WHICHEVER IS LOWER. (##) IS CANDELA RATING
-  FIRE ALARM STROBE - ADA RATED 80" TO BOTTOM OF BOX OR 6" DOWN FROM CEILING TO TOP OF BOX WHICHEVER IS LOWER
-  INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR
-  INTELLIGENT 135°F FIXED & RATE OF RISE (15°F/M) (20°F/M) UNLESS NOTED ON THE PLANS
-  ADDRESSABLE MONITOR MODULE
-  ADDRESSABLE CONTROL MODULE
-  ELECTRIC DOOR STRIKE

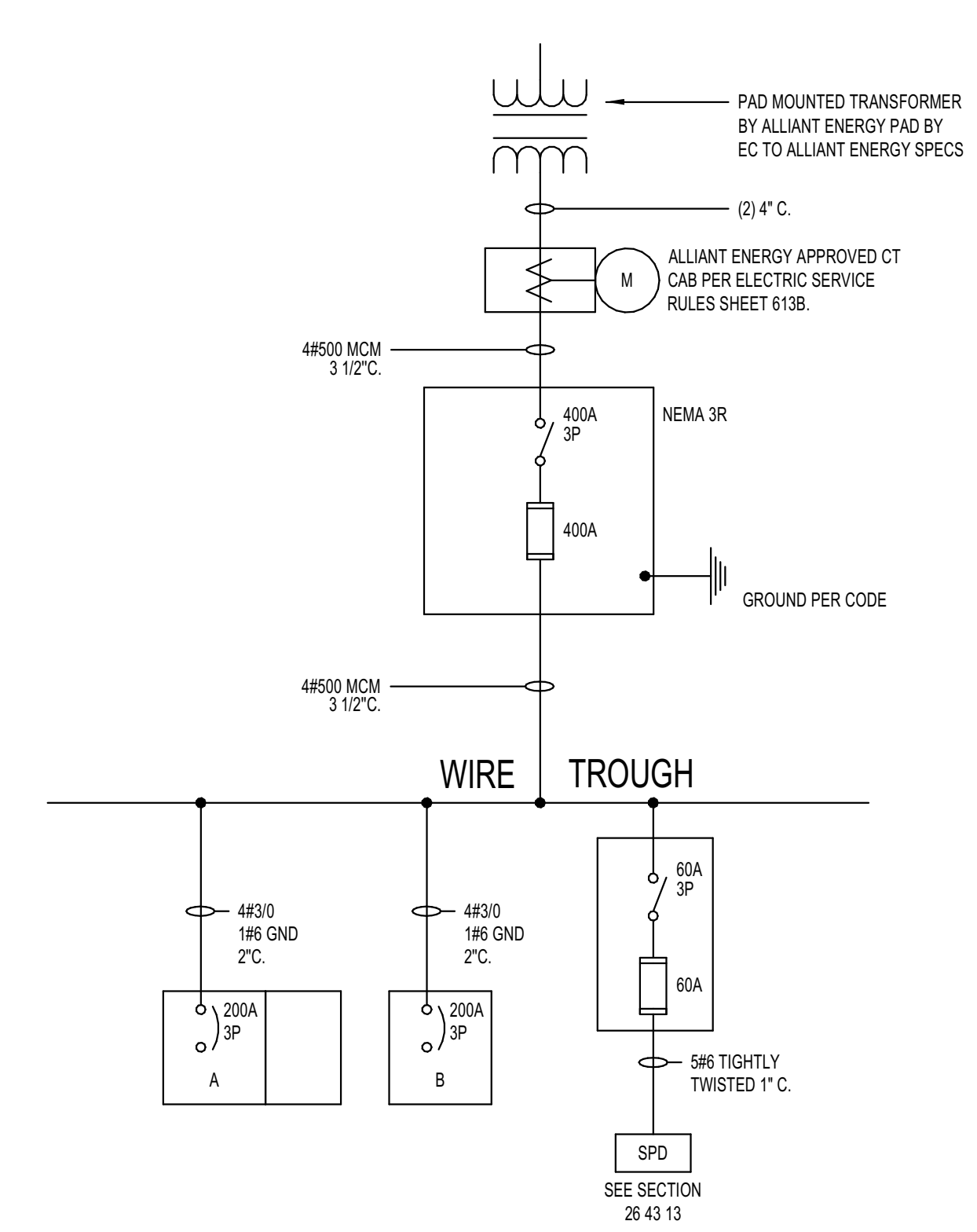
**ABBREVIATIONS**

- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- BFG BELOW FINAL GRADE
- BOL BUILT-IN OVERLOAD
- C CONDUIT
- CKT CIRCUIT
- CB COMBINATION STARTER
- D DEDICATED
- DD DOUBLE DUPLEX
- EC ELECTRICAL CONTRACTOR
- EWC ELECTRIC WATER COOLER
- ER EXISTING TO BE REMOVED
- ERL EXISTING RELOCATED (NEW LOCATION)
- ETL EXISTING TO BE RELOCATED (OLD LOCATION)
- EX EXISTING TO REMAIN
- FACP FIRE ALARM CONTROL PANEL
- GC GENERAL CONTRACTOR
- GFI GROUND FAULT INTERRUPTER
- HV HEATING AND VENTILATION CONTRACTOR
- IG ISOLATED GROUND
- IR IN ROOM
- IU IN UNIT
- MAN MANUAL STARTER
- MAG MAGNETIC STARTER
- MCA MINIMUM CIRCUIT AMPACITY
- NIC NOT IN CONTRACT
- NL NIGHT LIGHT
- NU NEAR UNIT
- PB PUSHBUTTON
- PC PLUMBING CONTRACTOR
- PW PRE-WIRED
- RV REDUCED VOLTAGE STARTER
- RAI REMAIN AS IS
- SC SEPARATE CIRCUIT
- SS SPEED SWITCH
- SW SWITCH
- TC TIMECLOCK
- TS THERMOSTAT
- UM UNIT MANUFACTURER
- WP WEATHERPROOF

THE ELECTRICAL CONTRACTOR SHALL DISCONNECT THE FOLLOWING EQUIPMENT AND REMOVE THE WIRING AND CONDUIT BACK TO SOURCE:

- GRADE MOUNTED ROOF TOP UNITS
- TOILET CEILING EXHAUST FANS
- GREASE EXHAUST FANS ON ROOF
- MAKE-UP AIR UNITS ON ROOF
- DOMESTIC WATER HEATER

VERIFY ALL EQUIPMENT TO BE REMOVED WITH HVAC AND PLUMBING CONTRACTORS PRIOR TO DISCONNECTION.



② POWER RISER  
NOT TO SCALE

ELECTRICAL SHEET INDEX	
SHEET NUMBER	SHEET NAME
E000	SYMBOLS, ABBREVIATIONS & SHEET INDEX
E010	ELECTRICAL SITE PLAN
E201	FIRST FLOOR PLAN - POWER & SYSTEMS
E301	FIRST FLOOR PLAN - LIGHTING
E400	ELECTRICAL DETAILS
E500	ELECTRICAL SCHEDULES
E600	PANEL SCHEDULES

C16063

**CZARNECKI ENGINEERING INCORPORATED**

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**PROJECT**  
PARK EDGE/PARK RIDGE  
EMPLOYMENT CENTER

1233 McKENNA BLVD.  
MADISON, WI 53719  
Contract No. 8213 / Munis  
No. 10066

**PROJECT NO.**  
16010-00

**DRAWING**  
SYMBOLS,  
ABBREVIATIONS & SHEET  
INDEX

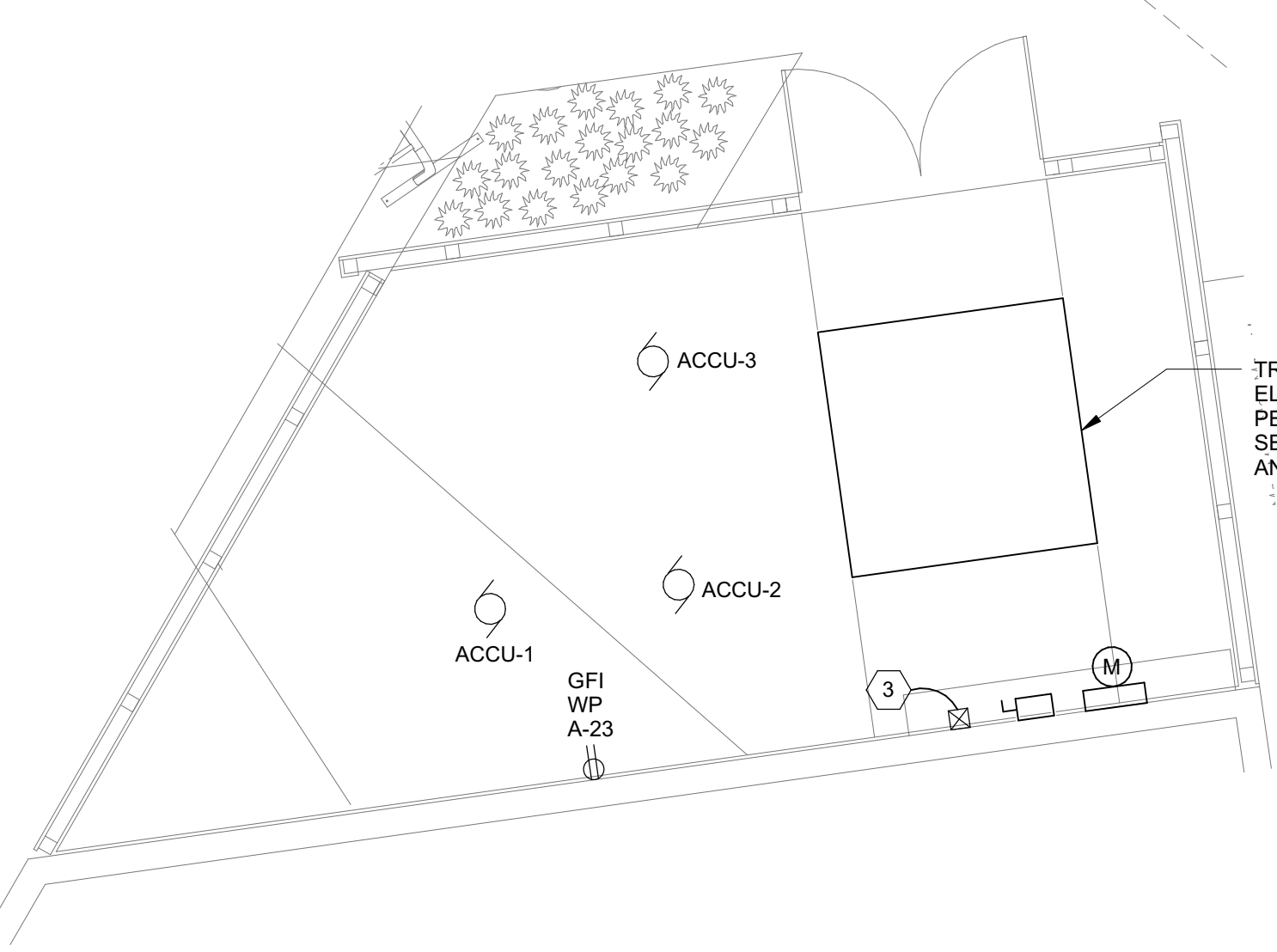
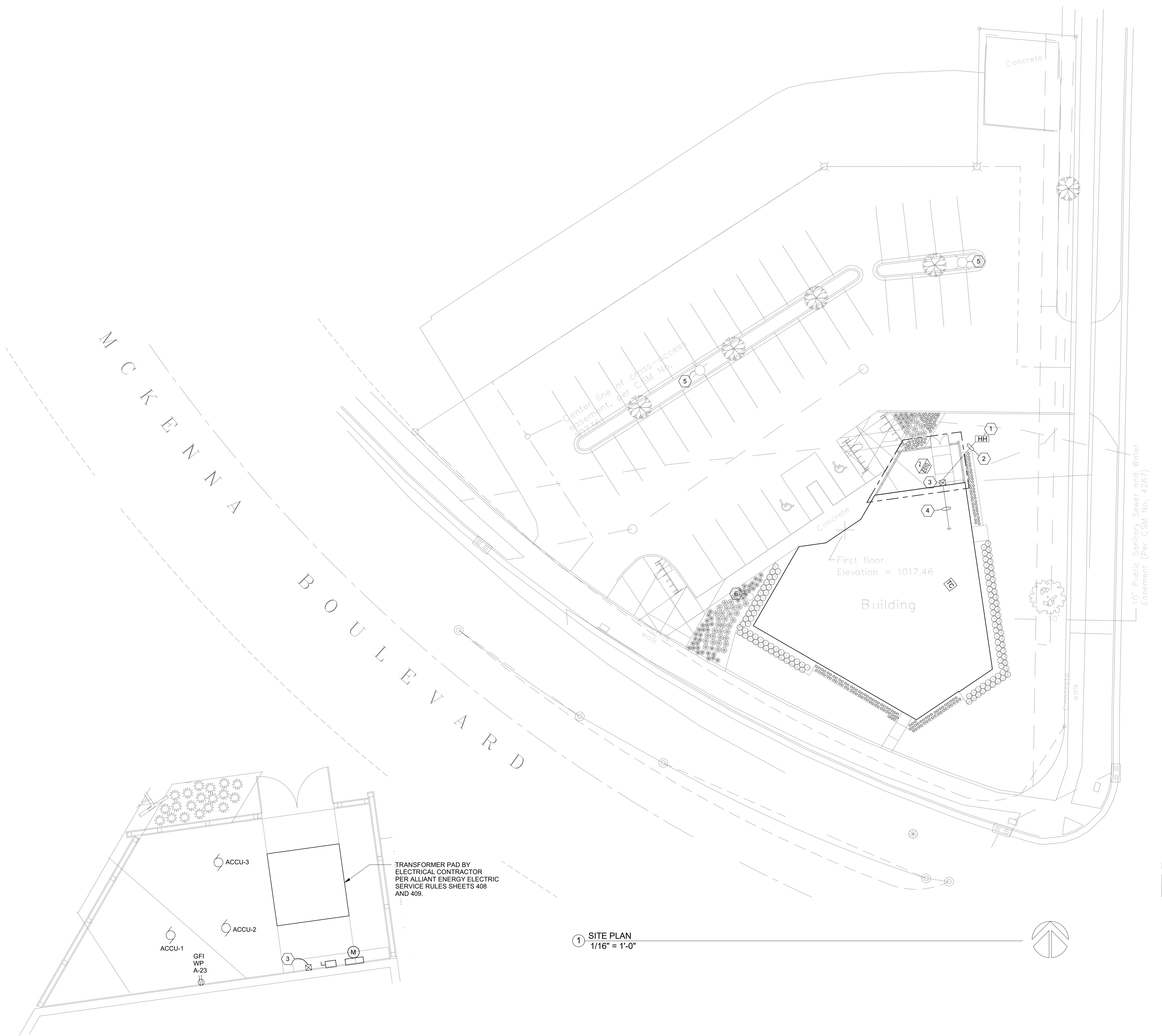
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**GENERAL NOTES:**

1. REMOVE ALL BUILDING MOUNTED CAMERAS AND LIGHTS
2. REMOVE ALL GROUND MOUNTED FLOOD LIGHTS
3. REMOVE ALL EXTERIOR RECEPTACLES

**KEYED NOTES:**

1. HANDHOLE FOR INCOMING MUFN FIBER - SEE DETAIL ON E400
2. 2" HWPVC 18" BFG
3. PULLBOX - NEMA 3R
4. 2" EMT ABOVE CEILING TO LADDER RACK IN 104
5. EXISTING POLE, REWIRE LIGHT TO A-33.35. WIRE RECEPTACLES TO A-37.
6. REMOVE WIRING FOR PLYON SIGN.



TRANSFORMER PAD BY ELECTRICAL CONTRACTOR PER ALLIANT ENERGY ELECTRIC SERVICE RULES SHEETS 408 AND 409.

1 SITE PLAN  
1/16" = 1'-0"

2 ENLARGED PLAN - EQUIPMENT ENCLOSURE  
1/4" = 1'-0"

**PROJECT**  
PARK EDGE/PARK RIDGE  
EMPLOYMENT CENTER

1233 MCKENNA BLVD.  
MADISON, WI 53719  
Contract No. 8213 / Munis  
No. 10066

**PROJECT NO.**  
16010-00

**DRAWING**  
ELECTRICAL SITE PLAN

**DATE**  
05.15.18

C16063  
**CZARNECKI ENGINEERING INCORPORATED**  
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VOICE: (262) 513-2020 FAX: (262) 513-2023  
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**GENERAL NOTES:**

1. REMOVE ALL ELECTRICAL FROM ORIGINAL BUILDING

**KEYED NOTES:**

- 1 PROVIDE LEGRAND TV3WMTVSSW FLAT SCREEN BOX 60" AFF. EXTEND 1" C. TO LADDER RACK.
- 2 PROVIDE 2 DATA LINES AND ONE ANALOG LINE. LOCATE ABOVE COUNTER.
- 3 LOCATE IN FACE OF BULKHEAD FOR OWNER FURNISHED PROJECTORS AND WIRELESS ACCESS POINT.
- 4 1/2" EMT WITH PULL ROPE.
- 5 UP/DOWN/STOP SWITCH FURNISHED WITH PROJECTION SCREEN.
- 6 4'x8'x3/4" PLYWOOD BACKBOARD. PAINT GRAY-TWO COATS.
- 7 4" EMT SLEEVE ABOVE CEILING.
- 8 12" LADDER RACK
- 9 19" DATA RACK
- 10 CUT AND PATCH FLOOR FOR CONDUITS - 1/2" FOR POWER AND 1 1/4" FOR DATA.
- 11 TO LADDER RACK
- 12 PROVIDE LEGRAND RFB4-C1-1 WITH TWO DUPLEX RECEPTACLES, TWO DATA JACKS AND ONE WT8-MAAAP AV BRACKET FOR OWNER FURNISHED AV DEVICES.
- 13 PROVIDE JUNCTION BOX WITH BLANK COVER 96" AFF. AND 3/4" CONDUIT TO LADDER RACK FOR SOUND COLUMN BY OWNER.
- 14 PROVIDE JUNCTION BOX WITH BLANK COVER 18" AFF. AND 3/4" CONDUIT TO LADDER RACK FOR MICROPHONE OUTLET BY OWNER.
- 15 2" EMT FOR MUFN FIBER ABOVE CEILING

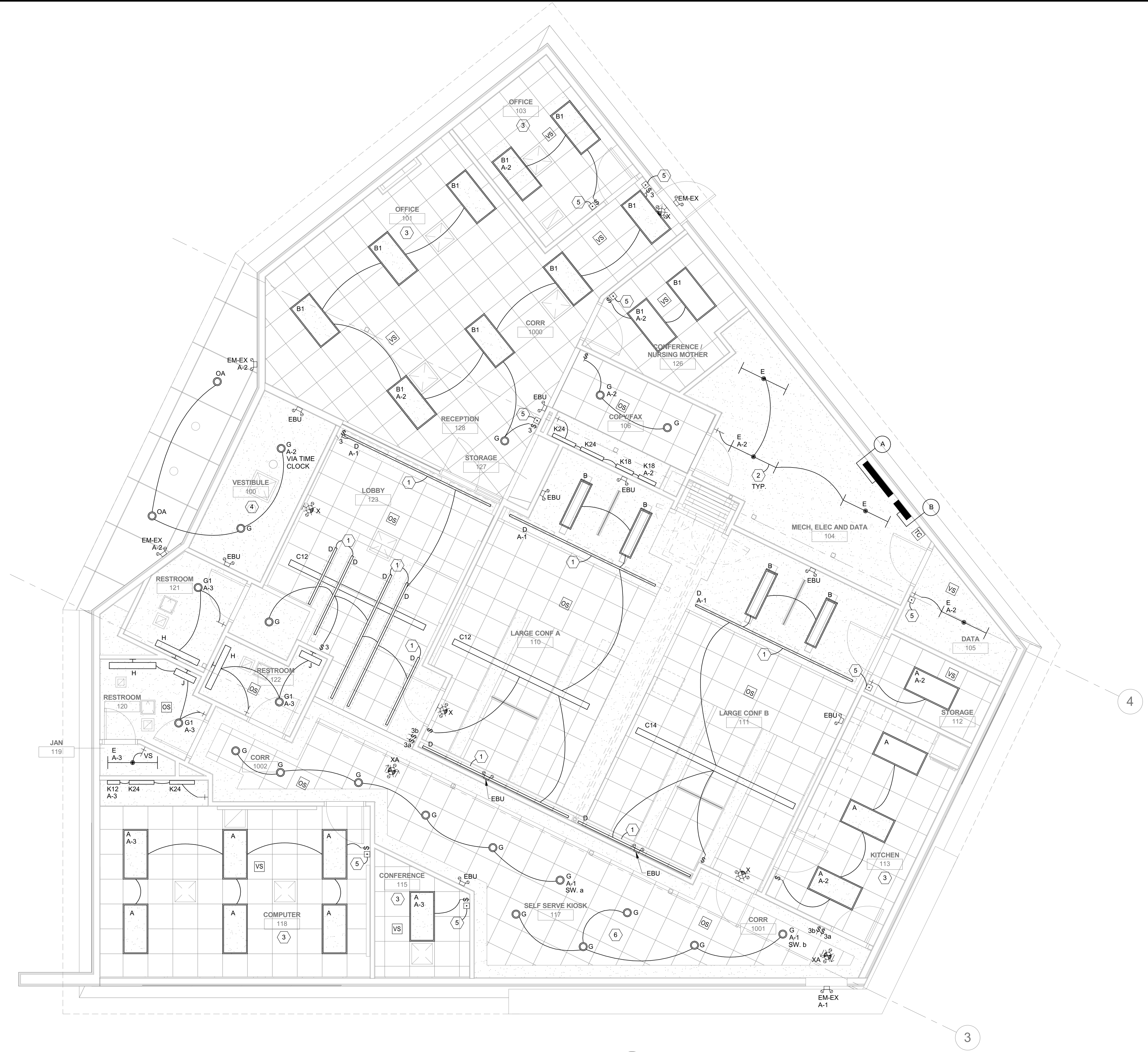
1 FIRST FLOOR PLAN - POWER & SYSTEMS  
1/4" = 1'-0"

**GENERAL NOTES:**

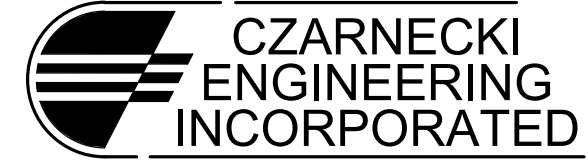
1. REMOVE ALL ELECTRICAL FROM ORIGINAL BUILDING.
2. WHERE MULTIPLE OCCUPANCY SENSORS ARE SHOWN IN A SPACE, WIRE IN PARALLEL.
3. WIRE OCCUPANCY SENSORS AHEAD OF ROOM SWITCHING.
4. WIRE EXIT LIGHTS AND BATTERY UNITS TO LIGHTING CIRCUIT SERVING AREA AHEAD OF SWITCHES.

**KEYED NOTES:**

- 1 MOUNT IN ARCHITECTURAL UPLIGHT COVE.
- 2 CHAIN MOUNT 8'-0" AFF OR EVEN WITH ADJACENT DUCTS AND PIPES. COORDINATE WITH MECHANICAL.
- 3 AREA IS EXEMPT FROM DAYLIGHT HARVESTING REQUIREMENT BECAUSE THE EFFECTIVE APERTURE OF GLAZING IS LESS THAN 0.1 AND WATTAGE IN THE DAYLIGHT ZONE IS LESS THAN 150 WATTS.
- 4 AREA IS EXEMPT FROM DAYLIGHT HARVESTING REQUIREMENT BECAUSE THE LIGHTING WATTAGE DENSITY IS LESS THAN 0.6 WATTS/SQUARE FOOT AND THE WATTAGE IN THE DAYLIT AREA IS LESS THAN 150 WATTS.
- 5 PROVIDE A LOW VOLTAGE SWITCH TO RESET THE VACANCY SENSOR RELAY AFTER AN OFF-OPERATION.
- 6 AREA IS EXEMPT FROM DAYLIGHT HARVESTING REQUIREMENT BECAUSE THE WATTAGE IN THE DAYLIT AREA IS LESS THAN 150 WATTS.

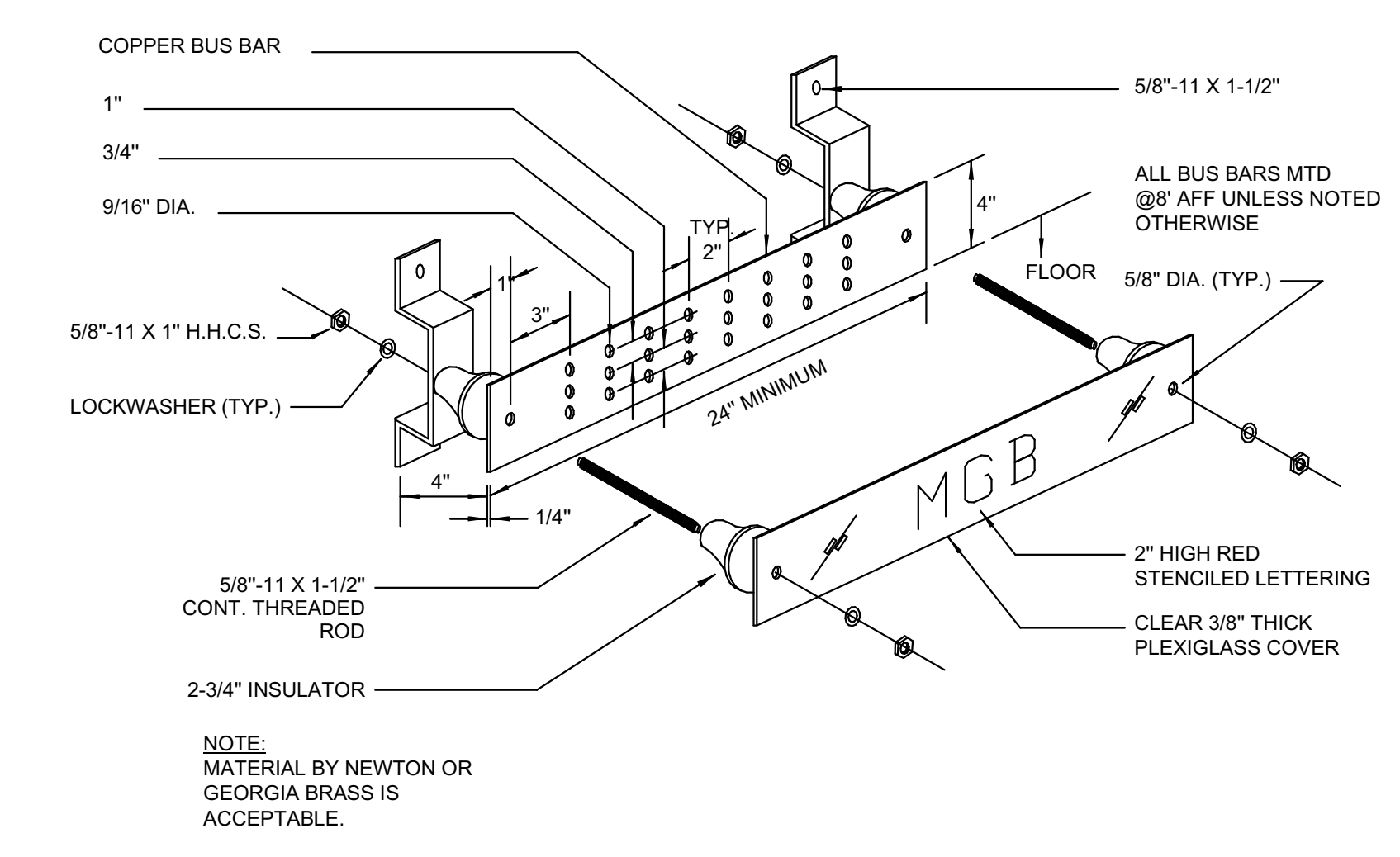


1 FIRST FLOOR PLAN - LIGHTING  
1/4" = 1'-0"

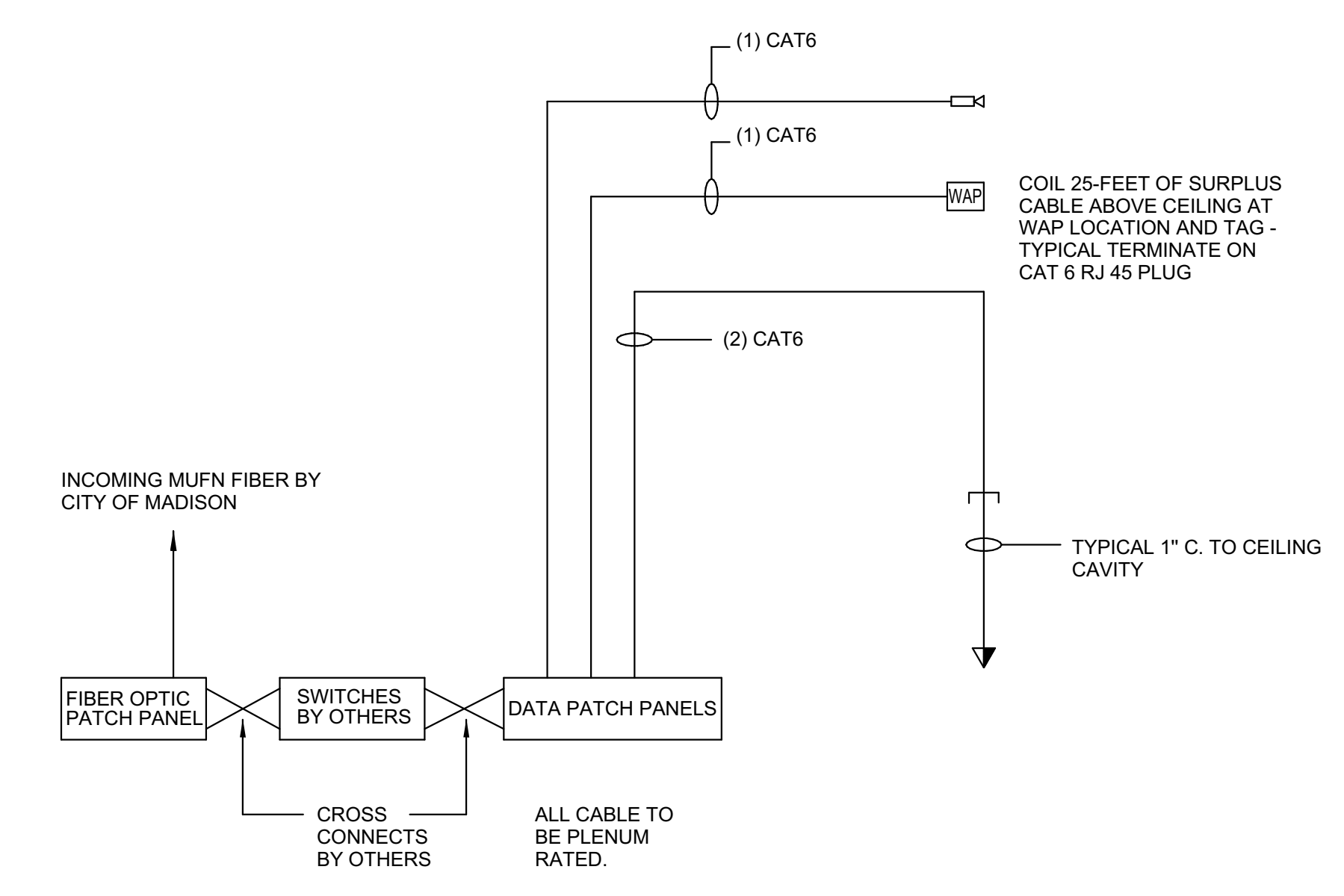
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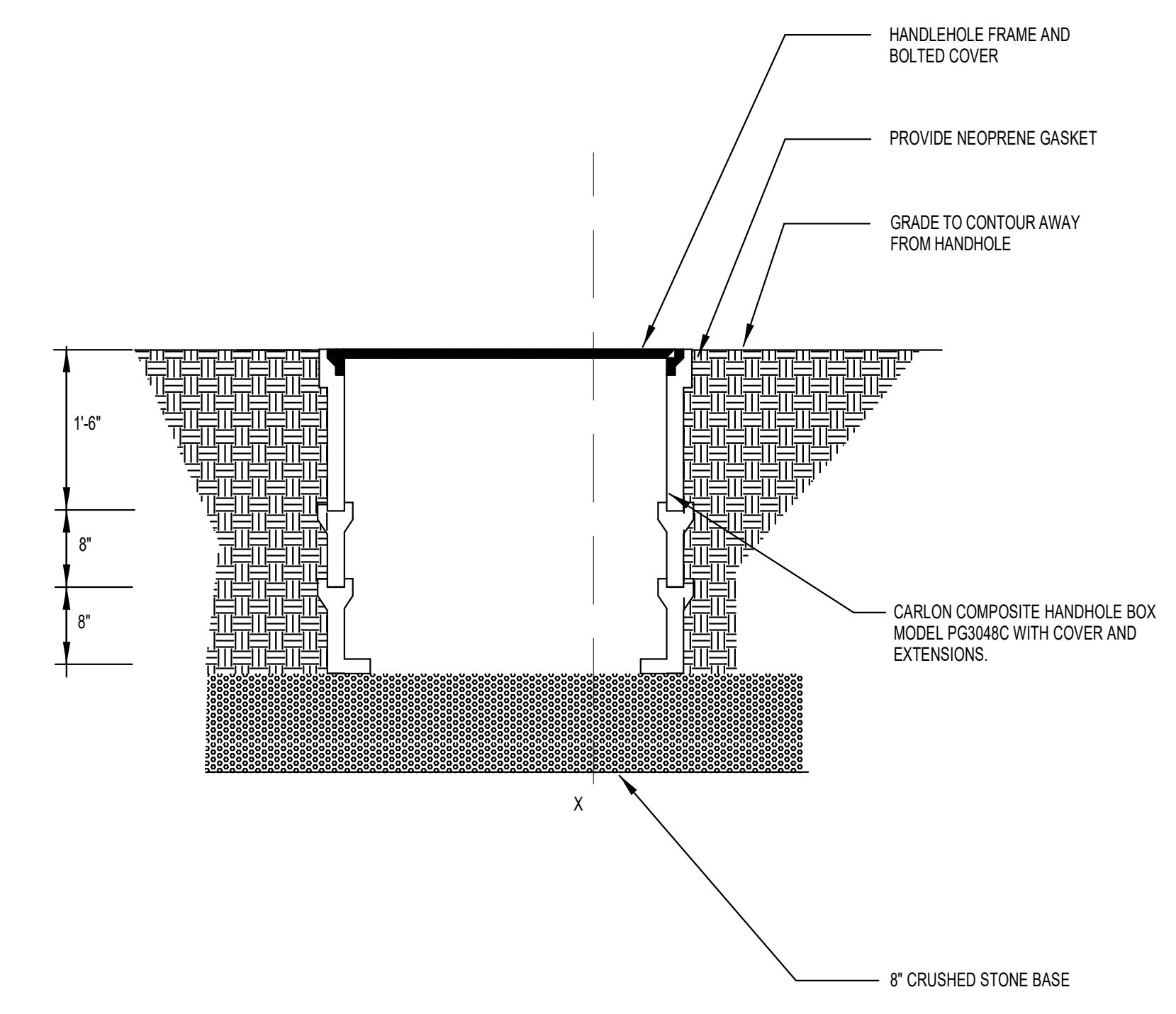
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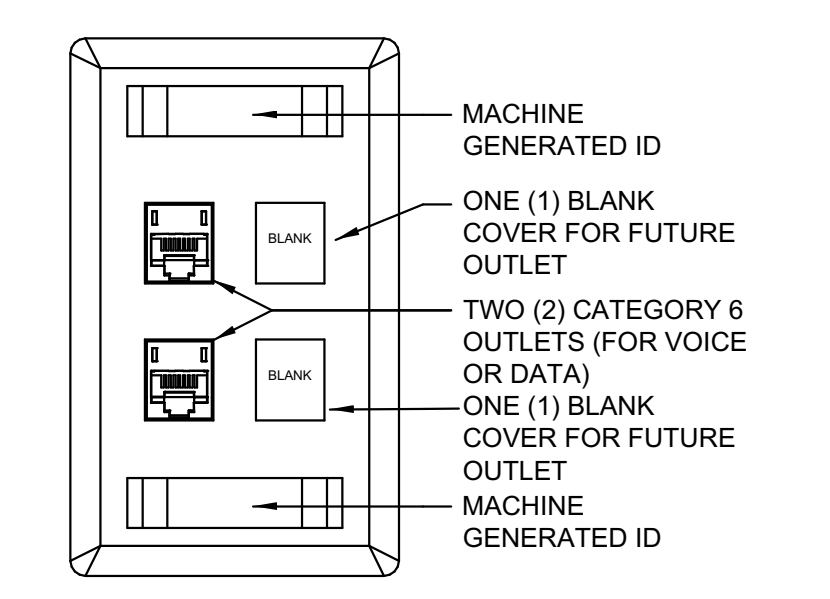
3 GROUND BUS DETAIL NOT TO SCALE



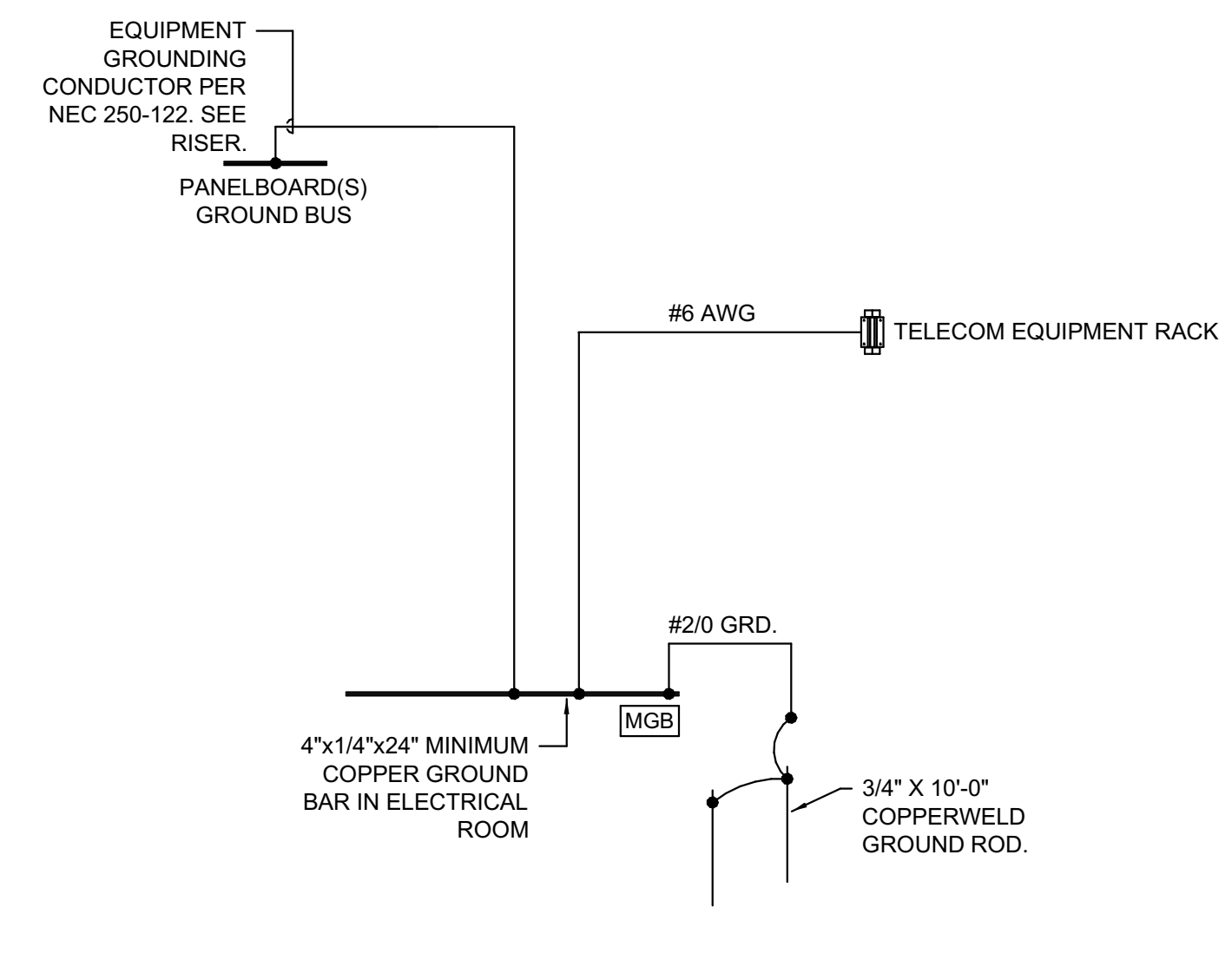
2 DATA RISER DIAGRAM - CATEGORY 6 PERFORMANCE NOT TO SCALE



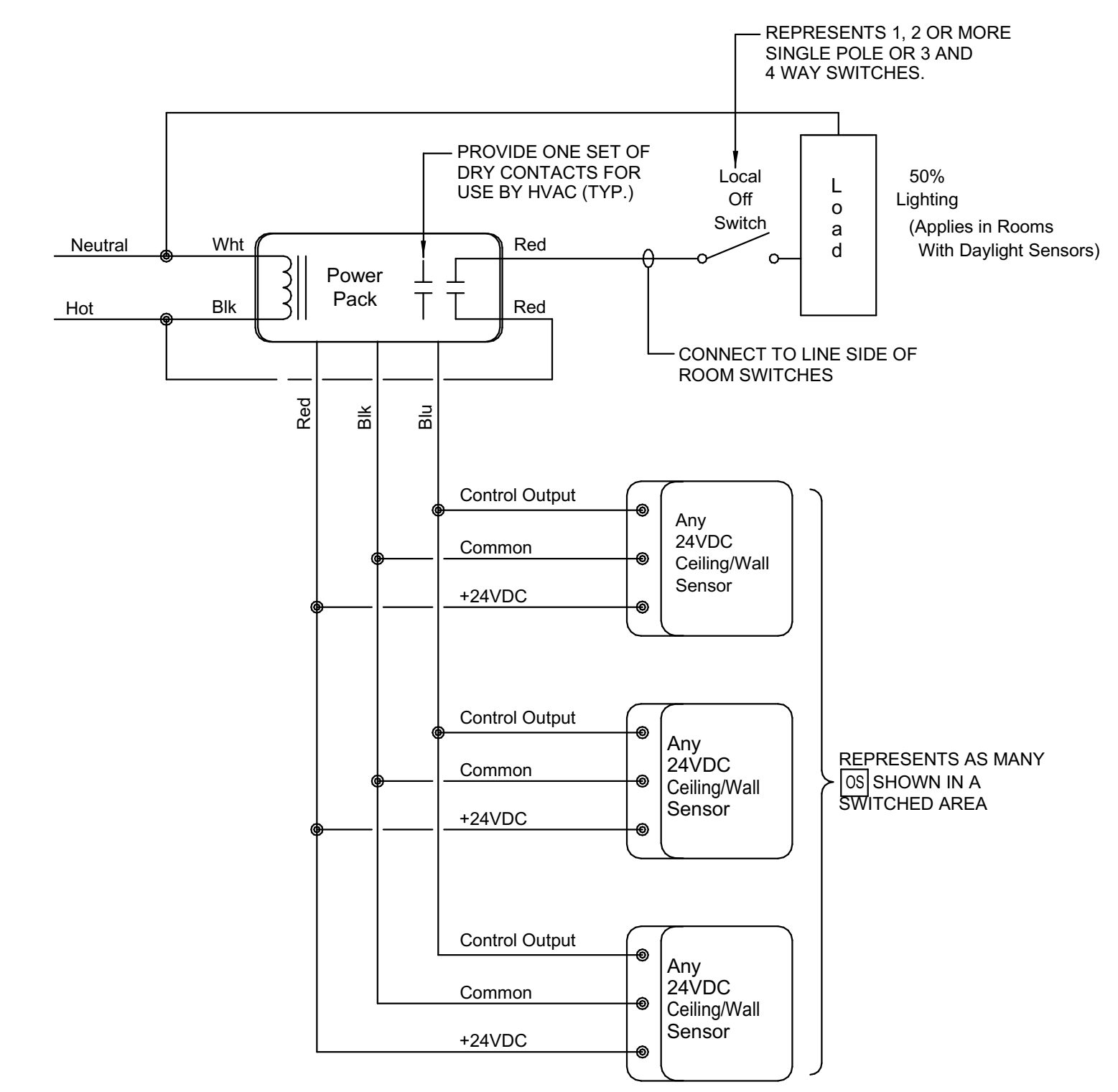
1 HANDHOLE DETAIL NOT TO SCALE



6 TYPICAL WORKSTATION DATA OUTLET DETAIL NOT TO SCALE



5 GROUNDING SYSTEM DETAIL NOT TO SCALE



4 WIRING DIAGRAM - OCCUPANCY/VACANCY SENSORS NOT TO SCALE

**PROJECT**  
PARK EDGE/PARK RIDGE  
EMPLOYMENT CENTER

1233 McKENNA BLVD.  
MADISON, WI 53719  
Contract No. 8213 / Munis  
No. 10066

**PROJECT NO.**  
16010-00

**DRAWING**  
ELECTRICAL DETAILS

**DATE**  
05.15.18

**SPECIAL PURPOSE OUTLET SCHEDULE**

- NOTES:**
1. PROVIDE GFI DUPLEX RECEPTACLE MOUNTED AT 18" AFF. INSTALL CORD ON DISPOSER.
  2. PROVIDE NEMA 5-20R RECEPTACLE MOUNTED AT 60" AFF. PROVIDE DEAD FRONT GFI DEVICE TO CONNECT TO RECEPTACLE. INSTALL DEAD FRONT GFI DEVICE IN AN EASILY ACCESSIBLE LOCATION.
  3. PROVIDE RECEPTACLE.
  4. VERIFY INSTALLATION REQUIREMENTS. IF THE CONNECTION IS CORD AND PLUG PROVIDE A DUPLEX RECEPTACLE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND PROVIDE A DEAD FRONT GFI DEVICE IN AN EASILY ACCESSIBLE LOCATION.
  5. PROVIDE TRIPP LITE PDU 1220 RACK MOUNTED.

TAG	DRIVING	LOC.	FEED FROM		BREAKER		BRANCH WIRING			POWER	SEE NOTE
			PANEL	CIRCUIT	SIZE	POLE	NO	SIZE	COND.		
DW	DISHWASHER	113	A	16	20	1	2 + G	12	1/2"	120 V/1-1200 VA	4
EBB-1	ELECTRIC BASEBOARD HEATER	117	B	19,21	20	2	2 + G	12	1/2"	208 V/1-1200 VA	
EBB-2	ELECTRIC BASEBOARD HEATER	117	B	19,21	20	2	2 + G	12	1/2"	208 V/1-1200 VA	
EBB-3	ELECTRIC BASEBOARD HEATER	117	B	20,22	20	2	2 + G	12	1/2"	208 V/1-1200 VA	
EBB-4	ELECTRIC BASEBOARD HEATER	113	B	20,22	20	2	2 + G	12	1/2"	208 V/1-1200 VA	
EW-1	ELECTRIC WALL HEATER	100	B	2	20	1	2 + G	12	1/2"	120 V/1-1500 VA	
EW-2	ELECTRIC WALL HEATER	100	B	3	20	1	2 + G	12	1/2"	120 V/1-1500 VA	
EW-3	ELECTRIC WALL HEATER	1000	B	4	20	1	2 + G	12	1/2"	120 V/1-1500 VA	
EW-4	ELECTRIC WALL HEATER	120	B	5	20	1	2 + G	12	1/2"	120 V/1-1000 VA	
EW-5	ELECTRIC WALL HEATER	121	B	6	20	1	2 + G	12	1/2"	120 V/1-1000 VA	
EW-6	ELECTRIC WALL HEATER	105	B	7	20	1	2 + G	12	1/2"	120 V/1-1000 VA	
FACP	FIRE ALARM CONTROL PANEL	105	A	34	20	1	2 + G	12	1/2"	120 V/1-300 VA	
GD	GARBAGE DISPOSAL	113	A	32	20	1	2 + G	12	1/2"	120 V/1-300 VA	1
GW	GAS WATER HEATER	104	B	1	20	1	2 + G	12	1/2"	120 V/1-180 VA	
MPS	MOTORIZED PROJECTION SCREEN	110	A	31	20	1	2 + G	12	1/2"	120 V/1-600 VA	
MW	MICROWAVE	113	A	14	20	1	2 + G	12	1/2"	120 V/1-1200 VA	2
PDU	POWER DISTRIBUTION UNIT	105	A	30	20	1	2 + G	12	1/2"	120 V/1-1500 VA	5
RG	RANGE	113	A	15,17	50	2	3 + G	6	1"	208 V/1-8320 VA	3
TCP-1	TEMPERATURE CONTROL PANEL	104	B	23	20	1	2 + G	12	1/2"	120 V/1-300 VA	
TCP-2	TEMPERATURE CONTROL PANEL	104	B	23	20	1	2 + G	12	1/2"	120 V/1-300 VA	
TCP-3	TEMPERATURE CONTROL PANEL	104	B	23	20	1	2 + G	12	1/2"	120 V/1-300 VA	
WS	WATER SOFTENER	104	B	1	20	1	2 + G	12	1/2"	120 V/1-180 VA	

**LIGHT FIXTURE SCHEDULE**

- NOTES:**
1. INSTALL ABOVE MIRROR.
  2. INSTALL AT REAR OF CABINET, NEAR WALL.
  3. INSTALL CENTER OF JUNCTION BOX 8'-0" AFG. CONFIRM COLOR WITH ARCHITECT.
  4. PROVIDE ALL LEADER AND JUMPER CABLES, POWER SUPPLIES, CLIPS BRACKETS FOR A COMPLETE WORKING INSTALLATION.
  5. INSTALL FIXTURE AT 10'-0" AFF TO BOTTOM OF FIXTURE, ADJUST AIR-CRAFT CABLE AS NEEDED.

TAG	NO	LAMP DATA		DESCRIPTION	MAKE	LIGHTING FIXTURE		MOUNT	CEILING TYPE	VOLT	SEE NOTE
		TYPE				CATALOG NO					
A	-	32-watts	3918 lumens / 3500k	2x4 RECESSED LED TROFFER	LITHONIA LIGHTING	2TL4-40L-FW-A12-MVOLT-EZ1-LP835		RECESSED	GRID	120	
B	-	22-watts	2420 lumens /3500k	1x4 RECESSED LED "FLAT PANEL" TROFFER	ASD LIGHTING	ASD-ELP-14-D-22-35-HE		RECESSED	PLASTER	120	
B1	-	37-watts	4220 lumens /3500k	2x4 RECESSED LED "FLAT PANEL" TROFFER	MAXLITE	MLFP-24EP-40-35		RECESSED	GRID	120	
C12	-	94-watts	10500 lumens / 3500k	12' DECORATIVE LINEAR SUSPENDED LUMINAIRE	FOCAL POINT	FNR-FL60-875LF-35K-1C-LINV-LD1-HS-CLV48-CCS-WH-8' + 4'-M		AIR-CRAFT CABLE	PLASTER	120	5
C14	-	108-watts	12250 lumens / 3500k	14' DECORATIVE LINEAR SUSPENDED LUMINAIRE	FOCAL POINT	FNR-FL60-875LF-35K-1C-LINV-LD1-HS-CLV48-CCS-WH-8' + 6'-M		AIR-CRAFT CABLE	PLASTER	120	5
D	-	6-watts(foot)	511 lumens(foot) / 3500k	1' AND 4' LED COVE STRIP LIGHT	ECOSENSE	L3S-1-12/48-06-35-80-MULT-120		COVE	-	120	4
E	-	24-watts	2805 lumens / 3500k	4' LED STRIP LIGHT	COLUMBIA LIGHTING	LCL-4-35-LW-E-U-CSHC		CHAIN	EXPOSED	120	-
EBU	-			EMERGENCY BATTERY UNIT	LITHONIA LIGHTING	ELM2 LED		WALL	-	120	
EM-EX	-	20-watts	2159 lumens / 3500k	WALL PACK WITH EMERGENCY BACK-UP	LITHONIA LIGHTING	DSXW1-LED-10C-530-40K-T3M-MVOLT-PE-ELCW-DBTXD		WALL	-	120	3
G	-	23.8-watts	3000 lumens /3500k	8" DIA LED DOWNLIGHT	SPECTRUM LIGHTING	SGE8LEDFX-30L-35K-DO-10X-AR842FX-SG		RECESSED	VARIES	120	
G1	-	23.8-watts	3000 lumens /3000k	8" DIA LED DOWNLIGHT - BATHROOM	SPECTRUM LIGHTING	SGE8LEDFX-30L-30K-DO-10X-AR842FX-SG		RECESSED	VARIES	120	
H	-	34-watts	2554 lumens / 3000k	4' LINEAR VANITY LIGHT	LITHONIA LIGHTING	FMVCSL-48IN-MVOLT-30K-90CR10-BN		WALL	-	120	1
J	-	18-watts	1304 lumens / 3000k	2' LINEAR VANITY LIGHT	LITHONIA LIGHTING	FMVCSL-24IN-MVOLT-30K-90CR10-BN		WALL	-	120	1
K12	-	7-watts	413 lumens / 3500k	12" UNDERCABINET LIGHT	LITHONIA LIGHTING	UCLD-12IN-35K-90CRI-WH		CABINET	-	120	2
K18	-	10-watts	585 lumens / 3500k	18" UNDERCABINET LIGHT	LITHONIA LIGHTING	UCLD-18IN-35K-90CRI-WH		CABINET	-	120	2
K24	-	13-watts	740 lumens / 3500k	24" UNDERCABINET LIGHT	LITHONIA LIGHTING	UCLD-24IN-35K-90CRI-WH		CABINET	-	120	2
OA	-	47-watts	3398 lumens /3500k	8" DIA LED DOWNLIGHT WET LOCATION	GOTHAM LIGHTING	EVO-35/30-8AR-MD-LD-120-EZ10		RECESSED	PLASTER	120	
X	-	1.5-watts		EXIT LIGHT WITH EMERGENCY HEADS	LITHONIA LIGHTING	LHQM-LED-S-W-3-R-120/277-HO-SD		TOP OR WALL	VARIES	120	
XA	-	1.5-watts		EXIT LIGHT DOUBLE-FACE WITH EMERGENCY HEADS	LITHONIA LIGHTING	LHQM-LED-S-W-3-R-120/277-HO-SD		TOP OR WALL	VARIES	120	

**MOTOR WIRING SCHEDULE**

- ABBREVIATIONS:**
- |                                |                                    |                              |                                 |                                |
|--------------------------------|------------------------------------|------------------------------|---------------------------------|--------------------------------|
| 2SP = 2 SPEED MAGNETIC STARTER | FD = FUSIBLE DISCONNECT            | MC = MECHANICAL CONTRACTOR   | NU = NEAR UNIT                  | T-STAT = THERMOSTAT            |
| BOL = BUILT-IN OVERLOAD        | HV = HVAC CONTRACTOR               | MCC = MOTOR CONTROL CENTER   | OU = ON UNIT                    | VFD = VARIABLE FREQUENCY DRIVE |
| CS = COMBINATION STARTER       | IU = IN UNIT                       | HOA = HAND-OFF-AUTO          | PC = PLUMBING CONTRACTOR        | WP = WEATHERPROOF              |
| EC = ELECTRICAL CONTRACTOR     | LMRS = LOCKABLE MOTOR RATED SWITCH | MCA = MINIMUM CIRCUIT AMPS   | PL = PILOT LIGHT                | STST = START / STOP            |
| ECP = ELEVATOR CONTROL PANEL   | MAN = MANUAL STARTER               | MFR = MANUFACTURER           | RVS = REDUCED VOLTAGE STARTER   |                                |
| EV = ELEVATOR CONTRACTOR       | MAG = MAGNETIC STARTER             | NFD = NON-FUSIBLE DISCONNECT | TCP = TEMPERATURE CONTROL PANEL |                                |

- NOTES:**
1. FAN SHALL BE CONTROLLED WITH SPACE LIGHTING AND OCCUPANCY SENSOR. ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING.
  2. ELECTRICAL CONTRACTOR TO WIRE POWER TO THERMOSTAT AND FAN.

TAG	DRIVING	LOC.	POWER		FEED FROM		BREAKER		BRANCH WIRING			STARTER				DISCONNECT				SEE NOTE		
			HP	VOLT / PH - LOAD	PANEL	CIRCUIT	SIZE	POLE	NO	SIZE	COND.	FURN.	INST.	WIRED	LOC.	TYPE	FURN.	INST.	WIRED		LOC.	TYPE
ACCU-1	AIR COOLED CONDENSING UNIT	SITE	29.2 MCA	208 V/1-6074 VA	B	11,13	40	2	2 + G	8	3/4"	HV	HV	EC	IU	MAG	EC	EC	EC	NU	FD	
ACCU-2	AIR COOLED CONDENSING UNIT	SITE	38.7 MCA	208 V/1-8050 VA	B	12,14	60	2	2 + G	6	1"	HV	HV	EC	IU	MAG	EC	EC	EC	NU	FD	
ACCU-3	AIR COOLED CONDENSING UNIT	SITE	21.1 MCA	208 V/1-4389 VA	B	15,17	30	2	2 + G	10	3/4"	HV	HV	EC	IU	MAG	EC	EC	EC	NU	FD	
CP-1	HOT WATER CIRCULATION PUMP	104	FRAC	120 V/1-500 VA	B	1	20	1	2 + G	12	1/2"	MFR	MFR	EC	IU	BOL	EC	EC	EC	NU	LMRS	
EF-1	EXHAUST FAN	120	1/10 HP	120 V/1-300 VA	A	3	20	1	2 + G	12	1/2"	MFR	MFR	EC	IU	BOL	EC	EC	EC	NU	LMRS	1
EF-2	EXHAUST FAN	121	1/10 HP	120 V/1-300 VA	A	3	20	1	2 + G	12	1/2"	MFR	MFR	EC	IU	BOL	EC	EC	EC	NU	LMRS	1
EF-3	EXHAUST FAN	122	1/10 HP	120 V/1-300 VA	A	3	20	1	2 + G	12	1/2"	MFR	MFR	EC	IU	BOL	EC	EC	EC	NU	LMRS	1
ERV-1	ENERGY RECOVERY VENTILATOR	104	10.1 MCA	120 V/1-1212 VA	B	16	15	1	2 + G	12	1/2"	MFR	MFR	EC	IU	MAG	EC	EC	EC	NU	LMRS	
F-1	FURNACE	104	14.8 MCA	120 V/1-1776 VA	B	8	20	1	2 + G	12	1/2"	MFR	MFR	EC	IU	MAN	EC	EC	EC	NU	LMRS	
F-2	FURNACE	104	14.8 MCA	120 V/1-1776 VA	B	9	20	1	2 + G	12	1/2"	MFR	MFR	EC	IU	MAN	EC	EC	EC	NU	LMRS	
F-3	FURNACE	104	14.8 MCA	120 V/1-1776 VA	B	10	20	1	2 + G	12	1/2"	MFR	MFR	EC	IU	MAN	EC	EC	EC	NU	LMRS	
TF-1	TRANSFER FAN	105	70 W	120 V/1-70 VA	B	18	20	1	2 + G	12	1/2"	MFR	MFR	EC	IU	BOL	EC	EC	EC	NU	LMRS	2

**TIME CLOCK SCHEDULE**

- NOTE:**
1. OR EQUIVALENT BY TORK OR PARAGON.

TAG	MAKE	CATALOG NO.	TYPE	LOCATION	TO CONTROL	REMARKS	SEE NOTE
	INTERMATIC	ET8015C	ASTRONOMIC	104	A-2a		1

**PROJECT**  
PARK EDGE/PARK RIDGE  
EMPLOYMENT CENTER

1233 MCKENNA BLVD.  
MADISON, WI 53719  
Contract No. 8213 / Munis  
No. 10066

**PROJECT NO.**  
16010-00

**DRAWING**  
ELECTRICAL SCHEDULES

**DATE**  
05.15.18

**PANEL A**

200 A MCB 208Y/120V 3 PHASE 4 WIRE SURFACE MOUNTING BREAKER AIC = 22kA @ 240VAC SYM.																		
AMPS	POLES	DESCRIPTION	LOAD CATEGORY	CKT	A			B			C			CKT	LOAD CATEGORY	DESCRIPTION	POLES	AMPS
20 A	1	LIGHTING	LIGHTING	1	1448 VA	1011 VA							2	LIGHTING	LIGHTING	1	20 A	
20 A	1	LIGHTING	LIGHTING...	3				1450 VA	720 VA				4	RECEPTACLE	RECEPT - 4	1	20 A	
20 A	1	RECEPT - 4	RECEPTACLE	5						720 VA	1260 VA		6	RECEPTACLE	RECEPT - 7	1	20 A	
20 A	1	RECEPT - 5	RECEPTACLE	7	900 VA	720 VA							8	RECEPTACLE	RECEPT - 4	1	20 A	
20 A	1	RECEPT - 6	RECEPTACLE	9				1080 VA	540 VA				10	RECEPTACLE	RECEPT - 3	1	20 A	
20 A	1	RECEPT - 3	RECEPTACLE	11						540 VA	1080 VA		12	RECEPTACLE	RECEPT - 6	1	20 A	
20 A	1	RECEPT - 1	KITCHEN	13	180 VA	1200 VA							14	KITCHEN	SPO - MW	1	20 A	
50 A	2	SPO - RG	KITCHEN	15				4160 VA	1200 VA				16	KITCHEN	SPO - DW	1	20 A	
--	--	--	--	17						4160 VA	1080 VA		18	RECEPTACLE	RECEPT - 6	1	20 A	
20 A	1	RECEPT - 2	RECEPTACLE	19	360 VA	360 VA							20	RECEPTACLE	RECEPT - 2	1	20 A	
20 A	1	RECEPT - 4	RECEPTACLE	21				720 VA	720 VA				22	RECEPTACLE	RECEPT - 4	1	20 A	
20 A	1	RECEPT - 4	RECEPTACLE	23						720 VA	720 VA		24	RECEPTACLE	RECEPT - 4	1	20 A	
20 A	1	RECEPT - 4	RECEPTACLE	25	720 VA	900 VA							26	RECEPTACLE	RECEPT - 5	1	20 A	
20 A	1	RECEPT - 5	RECEPTACLE	27				900 VA	720 VA				28	RECEPTACLE	RECEPT - 4	1	20 A	
20 A	1	RECEPT - 6	RECEPTACLE	29						1080 VA	1500 VA		30	EQUIPMENT	SPO - PDU	1	20 A	
20 A	1	SPO - MPS	EQUIPMENT	31	600 VA	300 VA							32	KITCHEN	SPO - GD	1	20 A	
20 A	2	POLE LIGHTS	LIGHTING	33				900 VA	300 VA				34	EQUIPMENT	SPO - FACP	1	20 A	
--	--	--	--	35						900 VA	720 VA		36	RECEPTACLE	RECEPT - 4	1	20 A	
20 A	1	RECEPT - 2	RECEPTACLE	37	360 VA								38					
20 A	1	COPIER	RECEPTACLE	39				1500 VA					40					
				41									42					
				43									44					
				45									46					
				47									48					
				49									50					
				51									52					
				53									54					
				55									56					
				57									58					
				59									60					
				61									62					
				63									64					
				65									66					
				67									68					
				69									70					
				71									72					
				73									74					
				75					0 VA				76	--		1	20 A	
				77							0 VA		78	--		1	20 A	
20 A	1		--	79	0 VA	0 VA							80	--		1	20 A	
20 A	1		--	81				0 VA	0 VA				82	--		1	20 A	
20 A	1		--	83						0 VA	0 VA		84	--		1	20 A	
					9059 VA	14910 VA				14480 VA								
<b>PANEL TOTALS</b>				<b>NOTES:</b>					<b>LOAD CATEGORY</b>	<b>CONNECTED LOAD</b>	<b>DEMAND FACTOR</b>	<b>ESTIMATED DEMAND</b>						
TOTAL LOADS: 38449 VA				1. SHARED NEUTRALS ARE NOT ACCEPTABLE THROUGHOUT THIS PROJECT. EACH BREAKER MUST HAVE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT. 2. IF A BREAKER IS LISTED WITHOUT A DESCRIPTION IT IS A SPARE.	EQUIPMENT				2400 VA	100.00%	2400 VA							
DEMAND: 35531 VA					RECEPTACLE				18240 VA	77.41%	14120 VA							
AMPS: 107 A					LIGHTING				4809 VA	125.00%	6011 VA							
DEMAND AMPS: 99 A					KITCHEN				12100 VA	100.00%	12100 VA							
				VENTILATING				900 VA	100.00%	900 VA								

**PANEL B**

200 A MCB 208Y/120V 3 PHASE 4 WIRE SURFACE MOUNTING BREAKER AIC = 22kA @ 240VAC SYM.																		
AMPS	POLES	DESCRIPTION	LOAD CATEGORY	CKT	A			B			C			CKT	LOAD CATEGORY	DESCRIPTION	POLES	AMPS
20 A	1	GWH-1, WS & CP-1	EQUIPMENT	1	860 VA	1500 VA							2	HEATING	SPO - EWH-1	1	20 A	
20 A	1	SPO - EWH-2	HEATING	3				1500 VA	1500 VA				4	HEATING	SPO - EWH-3	1	20 A	
20 A	1	SPO - EWH-4	HEATING	5						1000 VA	1000 VA		6	HEATING	SPO - EWH-5	1	20 A	
20 A	1	SPO - EWH-6	HEATING	7	1000 VA	1776 VA							8	HEATING	MOTOR - F-1	1	20 A	
20 A	1	MOTOR - F-2	HEATING	9				1776 VA	1776 VA				10	HEATING	MOTOR - F-3	1	20 A	
40 A	2	MOTOR - ACCU-1	COOLING	11						3037 VA	4025 VA		12	COOLING	MOTOR - ACCU-2	2	60 A	
--	--	--	--	13	3037 VA	4025 VA							14	--	--	--	--	
30 A	2	MOTOR - ACCU-3	COOLING	15				2195 VA	1212 VA				16	VENTILATING	MOTOR - ERV-1	1	15 A	
--	--	--	--	17						2195 VA	70 VA		18	COOLING	MOTOR - TF-1	1	20 A	
20 A	2	SPO - EBB-1 & EBB-2	HEATING	19	1200 VA	1200 VA							20	HEATING	SPO - EBB-3 & EBB-4	2	20 A	
--	--	--	--	21				1200 VA	1200 VA				22	--	--	--	--	
20 A	1	SPO - TCP-1, TCP-2 & TCP-3	EQUIPMENT	23						900 VA			24					
				25									26					
				27									28					
				29									30					
				31									32					
				33									34					
20 A	1		--	35						0 VA	0 VA		36	--		1	20 A	
20 A	1		--	37	0 VA	0 VA							38	--		1	20 A	
20 A	1		--	39				0 VA	0 VA				40	--		1	20 A	
20 A	1		--	41						0 VA	0 VA		42	--		1	20 A	
					14598 VA	12359 VA				12227 VA								
<b>PANEL TOTALS</b>				<b>NOTES:</b>					<b>LOAD CATEGORY</b>	<b>CONNECTED LOAD</b>	<b>DEMAND FACTOR</b>	<b>ESTIMATED DEMAND</b>						
TOTAL LOADS: 39183 VA				1. SHARED NEUTRALS ARE NOT ACCEPTABLE THROUGHOUT THIS PROJECT. EACH BREAKER MUST HAVE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT. 2. IF A BREAKER IS LISTED WITHOUT A DESCRIPTION IT IS A SPARE.	COOLING				18583 VA	100.00%	18583 VA							
DEMAND: 39183 VA					EQUIPMENT				1760 VA	100.00%	1760 VA							
AMPS: 109 A					HEATING				17628 VA	100.00%	17628 VA							
DEMAND AMPS: 109 A					VENTILATING				1212 VA	100.00%	1212 VA							