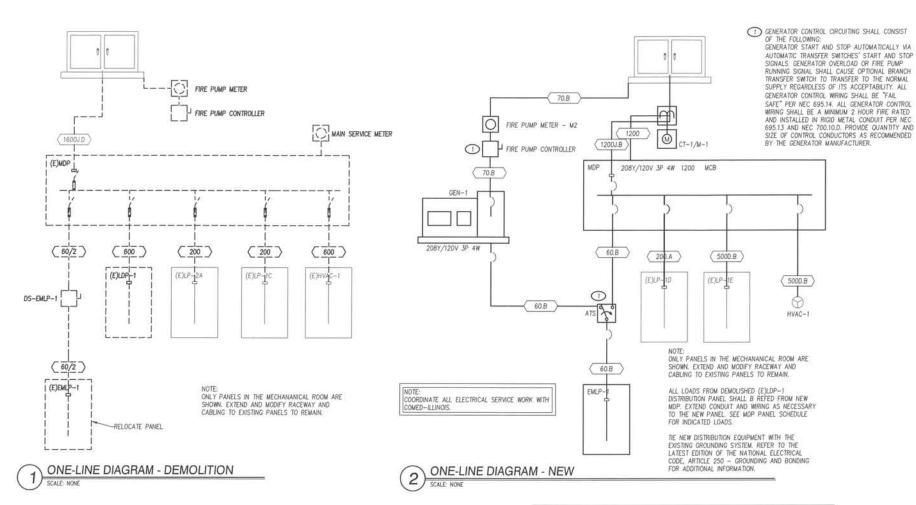


2024

FILE NO.: 2473.00



- 1	POOM:		VOL	TS: 208)	1/120V 3P 4W		SCCR: 100,000
,	MOUNTING: SURFACE			AMPS:			MAIN: 1200
	FED FROM: UTILITY			ITRAL: 1			LUGS: STANDARD
	NOTE:		NEU	THAL: I	00%		LOGS: STANDARD
KT			(VA LO		BREAKER		
#	CIRCUIT DESCRIPTION	A	В	С	TRIP/POLES	COND.	FEEDER RACEWAY AND CONDUCTORS
1	TRANSFER SWITCH ATS-1	0.443		0.443	60/3	CU	1"C,3#6,#6N,#10G
2	(E)LP-2A	0	0	0	200/3	CU	The control was a supply of the control of the cont
3	PANEL (E)LP-1D	0	0	0	200/3	CU	2"C,3#3/0,#3/ON,#6G
4	PANEL (E)LP-1E	0	0	0	200/3	CU	2"C,3#3/0,#3/0N,#6G
5	PANEL (E)LP-1A	0	0	0	200/3	CU	2"C,3#3/0,#3/0N,#6G
6	PANEL (E)LP-1B	0	0	0	200/3	CU	2°C,3#3/0,#3/0N,#6G
7	(E)HUMIDIFIER (E)ELEVATOR	0	0	0	100/3	CU	5/
8	PANEL (E)LP-1C	0	0	0	100/3 200/3	cu	270 747 (0 47 (0)) 470
10	SPARE (E)LP-10	0	0	0	200/3	cu	2"C,3#3/0,#3/0N,#6G
11	(E)UNKNOWN LOAD	0	ő	0	200/3	CU	
12	(E)HVAC-1	18	18	18	600/3	CU	(2)2-1/2"C,3#250MCM,#1G
13		0	0	0	20/3	CU	(2)2-1/2 0,5#250mcm,#15
14	SPARE	0	o	0	20/3	CU	
15	SPARE	0	ő	0	20/3	CU	
16	SPARE	0	0	0	20/3	CU	
17	SPARE	0	0	0	20/3	CU	
18	SPARE	0	0	0	20/3	CU	
19		0	0	0	20/3	CU	
20	SPARE	0	0	0	20/3	CU	
-	TOTAL CONNECTED KVA BY PHASE	18.4	18.4	18.4			
=	CONN. KVA CALC	_	0.70	-			CONN. KVA CALC. KVA
	LIGHTING 0 0		1		CONTINUO	ile.	0 0 (125%)
	LARGEST MOTOR 54 67.5	37.5 (125%) HEATING				U.S	0 0 (125%)
	OTHER MOTORS 1.33 1.33					NUCLIS	
	RECEPTACLES 0 0	(50%>1			KITCHEN I		0 0 (N/A)
	Thomas of the same	100.00	1		NONCOIN/		
					TOTAL KY		55.3 68.8

BALANCED THREE PHASE AMPS 191

	FEEDER SCHE	
EEDER AMPS	CONDUIT AND FEEDER	FEEDING THESE DEVICES
60	3/4"C,2#6,#6N,#10G	DS-EMLP-1
60	1"C,3#6,#6N,#10G	(E)LDP-1, ATS-1, ATS-1, EMLP-1
70	1"C,3#4,#8G	(E)FP-1
125	1-1/2"C,3#1/0,#1/0N,#6G	GEN-PNL
200	2"C,3#3/0,#3/ON,#6G	(E)LP-1A, (E)LP-1B, (E)LP-1C, (E)LP-1E
500	(2)2-1/2"C,3#250MCM,#1G	(E)HVAC-1
1200	(4)3°C,3#350MCM,#350MCM N,#3/0G	MDP

SIZING	METHOD:	COPPER,	60°C	#12	THROUGH	#1,	75°C	1/0	AND	ABOVE	
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		EQU	IPMENT	SCHED	ULE	
CALLOUT	SYMBOL	VOLTS	AMPS	HP	WIRE CALLOUT	MOCP
(E)FP-1	⊗ ∩⊡	208V 3P 3W	48.46	15 HP	1-1/4"C,3#2,#8G	90
(E)JP-1	0 C	208V 3P 3W	3.69	3/4 HP	3/4°C,3#12,#12G	

SYMBOL:	DESCRIPTION:	MANUFACTURER
GEN-1	NEW 48KW, 120/208V, 3-PHASE, 4-WIRE NATURAL GAS STANDBY GENERATOR WITH WEATHERPROOF, SOUND ATTENUATED, CRITICAL GRADE SILENCER, ENCLOSURE, 175-AMP BREAKER. REMOTE MONITORING CAPABILITIES, EXTREME COLD WEATHER KIT, BASE PLUG KIT, AND E-STOP SWITCH. 3.5-14 IN. WATER COLUMN NG FUEL PRESSURE. COORDINATE WITH MECHANICAL CONTRACTOR. PROVIDE OUTPUT BREAKERS FOR INDICATED LOADS, REMOTE ANNUNCIATOR AND STOP SWITCH.	GENERAC #RG048 SERIES #G007992-0, G005651-0, G005703-0, G007993-0 KOHLER CUMMINS
ATS	NEW AUTOMATIC TRANSFER SWITCH, OPEN TRANSITION, 200-AMPERE, SOLID NEUTRAL, 120/208-VOLT, 3-PHASE, 4-WIRE, WITH GROUND, PROGRAMMABLE, LOCKABLE IN THE OFF POSITION, GROUND LUG, UL LISTED.	ASCO 300 SERIES
FPCP	NEW FIRE PUMP CONTROLLER WITH AUTOMATIC TRANSFER SWITCH, 15 HP. ISOLATED SWITCH AND CIRCUIT BREAKER ASSEMBLY, 100KAIC RATING, ACROSS THE LINE STARTING METHOD, 208V, 3-PHASE, NEMA 2 ENCLOSURE, INTEGRAL SURGE PROTECTION.	TORNATECH GPA+GPU
MDP	NEW DISTRIBUTION PANELBOARD IN NEMA 1 ENCLOSURE, 20BY/120V, 3-PHASE, 4-WIRE, BUS RATING AS INDICATED ON RISER DIACRAMS AND PANEL SCHEDULES. FURNISH AND INSTALL BREAKERS AS REQUIRED FOR NEW AND RECONNECTED EXISTING LOADS, AS INDICATED ON PANEL SCHEDULES.	SQUARE 'D' I-LINE SERIES

GENERAL ELECTRICAL NOTES:

- ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES INCLUDING BUT NOT LIMITED TO THE NATIONAL ELECTRICAL CODE, THE INTERNATIONAL BUILDING CODE, AMERICANS MITH DISABILITIES ACT ACCESSIBILITY GUIDELINES, AND INTERNATIONAL ENERGY CONSERVATION CODE. THE AUTHORITY HAVING JURISDICTION SHALL HAVE THE FINAL DECISION ON ALL INSTALLATIONS AND PRACTICES.

 REFER TO THE MATERIAL SCHEDULE AND OTHER ASSOCIATED SCHEDULES AND NOTES FOR MANUFACTURERS AND DESCRIPTIONS OF ELECTRICAL MATERIALS, DEVICES, AND EQUIPMENT.

 ALL ELECTRICAL CONDUCTORS SHALL BE STRANDED COPPER WITH TYPE THHN—THWN INSULATION UNLESS SPECIFICALLY NOTED OTHERWISE. THE MINIMUM WIRE SIZE SHALL BE \$172 AWG.

 CIRCUIT DENTIFICATION NUMBERS ARE TO COORDINATE CIRCUITING WITH THE ASSOCIATED PANEL. THE CIRCUIT NUMBERS SHALL BE FIELD MODIFIED TO BALANCE THE ELECTRICAL LOAD ON ALL PHASES AS EVENLY AS POSSIBLE.

 ALL NEW CIRCUITS REQUIRING NEUTRAL CONDUCTORS SHALL HAVE DEDICATED NEUTRALS. SHARED NEUTRALS ARE NOT ALL OWED.

- 6. A GREEN GROUNDING CONDUCTOR SHALL BE CONNECTED TO ALL LOADS SERVED. THE CONDUCTOR SHALL BE SIZED PER THE NATIONAL ELECTRICAL CODE TO ACCOMMODATE THE LOAD SERVED. ALL GROUNDING CONDUCTORS SHALL BE INSTALLED IN CONDUIT.
- ALL BUILDING WIRING SHALL BE INSTALLED IN CONDUIT. MINIMUM SIZE SHALL BE 3/4".
- ALL HOME RUN CONDUITS SHALL BE MINIMUM OF 1" CONDUIT WITH 4-11/16" DEEP JUNCTION BOXES. ALL JUNCTION BOX COVERS SHALL BE CLEARLY MARKED TO IDENTIFY CIRCUIT NUMBERS IN THE ENCLOSURES. EACH HOME RUN RACEWAY SYSTEM SHALL HAVE SPARE CAPACITY FOR A MINIMUM OF 1 ADDITIONAL CIRCUIT AND ASSOCIATED DEDICATED NEUTRAL
- 9. MC CABLING IS NOT PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE.
 10. ALL CONDUITS SHALL BE CONCEALED IN WALLS, ABOVE CEILINGS, ETC. WHERE POSSIBLE. ALL CONDUIT ROUTED EXPOSED IN FINISHED SPACES SHALL BE A PRE-MANUFACTURED SURFACE RACEWAY (IE. WIREMOLD OR EQUAL) WITH THE EQUIVALENT USABLE AREA OF THE SUBSTITUTED CONDUIT. EXPOSED SURFACE RACEWAY SHALL NOT BE PERMITTED WITHOUT PRIOR APPROVAL FROM ARCHITECT/ENGINEER. ALL EXPOSED SURFACE RACEWAY SHALL BE ROUTED PARALLEL AND PEPPENDICULAR TO WALLS AND CEILINGS. SURFACE WIREWAY SHALL BE FACTORY OR FIELD PAINTED TO MATCH MOUNTING SURFACE
- 11. ALL CUTTING AND PATCHING REQUIRED FOR CONDUITS, DEVICES OR OTHER ELECTRICAL EQUIPMENT SHALL BE THE
- RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

 12. ALL PENETRATIONS THROUGH FIRE-RATED WALLS, FLOORS, AND CEILINGS SHALL BE SEALED WITH A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) APPROVED FIRE-RATED SYSTEM EQUAL TO OR EXCEEDING THE RATING OF THE
- MATERIAL PENETRATED.

 13. COORDINATE LOCATIONS OF ALL ELECTRICAL ITEMS INCLUDING LIGHTING FIXTURES, CEILING MOUNTED DEVICES (OCCUPANCY
- SENSORS, FIRE ALARM DETECTORS, SPEAKERS, ETC.) WITH EACH OTHER AND WITH ALL SPRINKLER HEADS, AIR SUPPLY DIFFUSER AND AIR RETURN ORILLES. ALL CEILING DEVICES SHALL BE CENTERED IN CEILING TILE, WHERE POSSIBLE.

 14. COORDINATE ALL MOUNTING OF ELECTRICAL MATERIALS, EQUIPMENT, AND DEVICES REQUIRED FOR EQUIPMENT/DEVICES SUPPLIED BY OTHERS. ELECTRICAL ITEMS SHALL BE MOUNTED TO AVOID ANY INTERFERENCE WITH OTHER EQUIPMENT OPERATION OR ACCESS. ALL INSTALLATIONS OF ELECTRICAL ITEMS FOR EQUIPMENT/DEVICES SUPPLIED BY OTHERS SHALL BE COORDINATED AND APPROVED BY SUPPLYING CONTRACTOR PRIOR TO ROUGH—IN.
- 15. BOXES LOCATED ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" OR A FIRE RATED MATERIAL EQUAL TO OR GREATER THAN THE FIRE WALL MATERIAL RATING SHALL BE INSTALLED AROUND THE BOX. BOXES LOCATED ON OPPOSITE SIDES OF NON-FIRE RATED WALLS SHALL BE OFFSET A MINIMUM 6"
- LINE TYPE KEY:

 NEW WORK BY THE ELECTRICAL CONTRACTOR

 NEW WORK BY OTHERS OR EXISTING WORK TO REMAIN

 EXISTING WORK TO BE DEMOLISHED BY THE ELECTRICAL CONTRACTOR INDICATES THE TYPE OF CONDUCTORS IN THE CONDUIT. VERIFY QUANTITY FOR EACH SPECIFIC LOAD SERVED.

-GROUND CONDUCTOR -NEUTRAL CONDUCTOR

18. CONDUCTOR TICK MARKS INDICATED ON CONDUITS DO NOT REPRESENT THE QUANTITY OF CONDUCTORS IN THE CONDUIT, BUT THE TYPE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE REQUIRED QUANTITY OF GROUND, NEUTRAL,

BUT THE TIPE UNELS. THE CONTRACTOR RESPONSIBLE FOR VEHICLE THE CONTRACTOR STATEMENT OF MATERIALS, LABOR, AND SHITCH LEGS IN EACH CONDUIT.

19. ALL REQUEST FOR CHANGE PROPOSALS ON THIS PROJECT SHALL INCLUDE BREAKDOWNS OF MATERIALS, LABOR, AND SUBCONTRACTORS, WITH SUFFICIENT DETAIL FOR ENGINEER EVALUATION. EACH SEPARATE PROPOSAL REQUEST ITEM SHALL INCLUDE SEPARATE PROPOSAL REQUEST ITEM SHALL INCLUDE SEPARATE MATERIALS AND LABOR BREAKDOWNS. SUPPLIER BACK-UP PRICING SHALL BE INCLUDED ON THE SUPPLIERS LETTERHEAD, ALL LABOR UNITS ASSOCIATED WITH THE NEW MATERIAL INSTALLATIONS SHALL NOT EXCEED 75% OF THE NECA 1 "NORMAL CONDITION" LABOR UNITS, WITHOUT SPECIFIC APPROVAL.





BRUNER, COOPER & ZUCK, INC.

835 Golden Valley Drive 563.355.1856 2024121-3

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PERU MORRIS OTTAWA MENDOTA

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VILLAGE OF COAL CITY LIBRARY ELECTRICAL WORK 2024

ELECTRICAL SCHEDULES

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€	KEITH Explosioning Design	207 66 Jafferson Ave Promis 5: 1 2000 206 - 239-4005 - office 205 / 214-40062 - de;

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KEITH	767 NE Jefferson Ave Prone N. : 63003	S
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