PROPOSED CONSTRUCTION SEQUENCE:

1. RELOCATE CONTROL PANEL CP-2.
2. RELOCATE CONTROL PANEL CP-5
3. INSTALL PUMP 4 VFD AND PREP FOR CONNECTION.
4. PLANT POWER OUTAGE #1 – REMOVE (3) 4160V AUTOTRANSFORMER STARTER SECTIONS AND INSTALL 3 NEW FUSED SECTIONS. POWER OUTAGE DURATION SHALL BE KEPT TO A MINIMUM. A MAXIMUM OF 8 HOURS IS ACCEPTABLE STARTING NO EARLIER THAN 9:00 AM. SCHEDULE OUTAGE WITH PLANT SUPERVISOR.
5. RECONNECT PUMP 4 AND BRING PUMP BACK ONLINE. PUMP 4 SHOULD BE BACK IN SERVICE WITHIN 5 DAYS FROM DATE OF DEMOLITION.
6. INSTALL PUMP 1 VFD AND BRING PUMP BACK ONLINE.
7. INSTALL PUMP 3 VFD AND BRING PUMP BACK ONLINE.

PROVIDE DUST PROTECTION FOR ALL EXISTING SWITCHGEAR, VFD'S AND MECHANICAL UNITS THROUGHOUT THE ENTIRE DEMOLITION AND CONSTRUCTION PROCESS.

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) & THE AMERICANS WITH DISABILITIES ACT (ADA).
2. REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
3. ALL MOUNTING HEIGHTS TO CENTERLINE OF ITEM UNLESS OTHERWISE NOTED. VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.
4. CONDUIT RUN W/CONDUCTORS AS INDICATED & GROUND WIRE SIZED PER N.E.C. 250.122. CONDUIT SIZE AS REQUIRED.
5. WHEN INCREASED CONDUCTOR SIZES ARE SHOWN ON THE PLANS, THE LARGER CONDUCTOR SIZE SHALL BE USED THROUGHOUT THE LENGTH OF THE CIRCUIT, INCLUDING NEUTRAL AND GROUND.
6. BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS WITH INDIVIDUAL NEUTRALS. A MAXIMUM OF THREE CIRCUITS (MAXIMUM OF THREE PHASE CONDUCTORS) MAY BE GROUPED IN A SINGLE CONDUIT. WHERE MULTIPLE CIRCUITS ARE LOCATED IN THE SAME RACEWAY, JUNCTION BOX OR ENCLOSURE, NEUTRALS SHALL BE MARKED OR LABELED TO INDICATE WHICH CIRCUIT THEY ARE ASSOCIATED WITH. SEE SPECIFICATION SECTION "LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES" FOR ADDITIONAL INFORMATION.

T1. RUN CABLES CONTINUOUS FROM JACK TO ASSOCIATED SYSTEM PATCH PANEL IN CONDUIT, CABLE TRAY, OR J-HOOKS PER THE PLANS AND SPECIFICATIONS. NUMBER BESIDE CABLE SYMBOL INDICATES QUANTITY OF CABLES REQUIRED PER HOME RUN.

CONTROL CABLES CONDUIT SCHEDULE

# OF CABLES	ESTIMATED CONDUIT SIZE
1	1/2"
2	3/4"
3	1"
5	1 1/4"
7	1 1/2"
13	2"
18	2 1/2"
29	3"
38	3 1/2"

NOTE:
ABOVE CONDUIT SIZES DEPEND ON ACTUAL CABLES INSTALLED. VERIFY CABLE SIZES & ADJUST CONDUIT AS REQUIRED. RUN ALL CONTROL CABLES IN SEPARATE CONDUIT FROM POWER CIRCUITS. ALSO RUN SHIELDED & LAN LAN CABLES IN SEPARATE CONDUIT FROM OTHER CONTROLS. CONTRACTOR CAN SIZE CONDUIT FOR ACTUAL CABLE SIZE, PER N.E.C. FILL TABLE WITH 25% SPARE CAPACITY. SUBMIT CALCULATIONS.

SYMBOL LIST

SYMBOL	DESCRIPTION	MOUNTING
UON	UNLESS OTHERWISE NOTED	
J	JUNCTION BOX	
'A'	BRANCH CIRCUIT PANEL & PANEL DESIG.	72" TO TOP
	ELECTRICAL DISTRIBUTION EQUIPMENT	
1	FEEDER DESIGNATION	
	CONDUIT RUN 2#12 & 1#12 GRD.-1/2"C.	CEIL./WALL
	CONDUIT RUN 2#12 & 1#12 GRD.-3/4"C.	EARTH/FLOOR
	MASTER/SLAVE FIXTURE WHIP	CEILING
	CONDUIT RUN 2 CIRCUITS, 3#12 & 1#12 GRD.-3/4"C.	EARTH/FLOOR
	CONDUIT RUN PARTIAL CIRCUIT	
#10	SEE GENERAL NOTE 4 & 5	
	CONDUIT RUN TWO (2) CIRCUITS PHASE CONDUCTORS (#12 UON) NEUTRAL CONDUCTOR (#12 UON) SWITCH LEGS (#12 UON) GROUND CONDUCTOR (#12 UON) ISOLATED GROUND CONDUCTOR (#12 UON)	CEIL./WALL
#2	DATA UTP CABLE HOME RUN	GEN NOTE T1
#?	MODBUS CABLE HOME RUN	
P.F.	POWER FACTOR	
UON	UNLESS OTHERWISE NOTED	

ELECTRICAL SHEET INDEX

SHEET NO.	DESCRIPTION
E0.1	ELECTRICAL LEAD SHEET
E0.2	ELECTRICAL PARTIAL ONE-LINE DIAGRAMS
E1.1	ELECTRICAL DETAILS
E2.1	ELECTRICAL PUMP ROOM – DEMOLITION
E3.2	ELECTRICAL PUMP ROOM – PLAN
E6.1	ELECTRICAL CONTROLS SCHEMATIC

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10/06/2023
KANSAS
PROFESSIONAL ENGINEER

CITY OF WICHITA, KS

CHENEY VARIABLE FREQUENCY DRIVE
UPGRADE
CHENEY, KS

Issue:		

JOB NO.	217043-012
DATE	OCTOBER 2023
PM	RDB
DESIGNED BY	DCG
DRAWN BY	JAB
CHECKED BY	RWW

ELECTRICAL LEAD SHEET

E0.1

Saved 12-21-2022 4:42:30 PM by SHANA.MATZEN
Plot Scale 1:7.378248 10-06-2023 12:08:12 PM by SHANA.MATZEN
U:\Wichita-Civil\2021\217043\012\Elec\Drawings\E0.1 ELECTRICAL LEAD SHEET