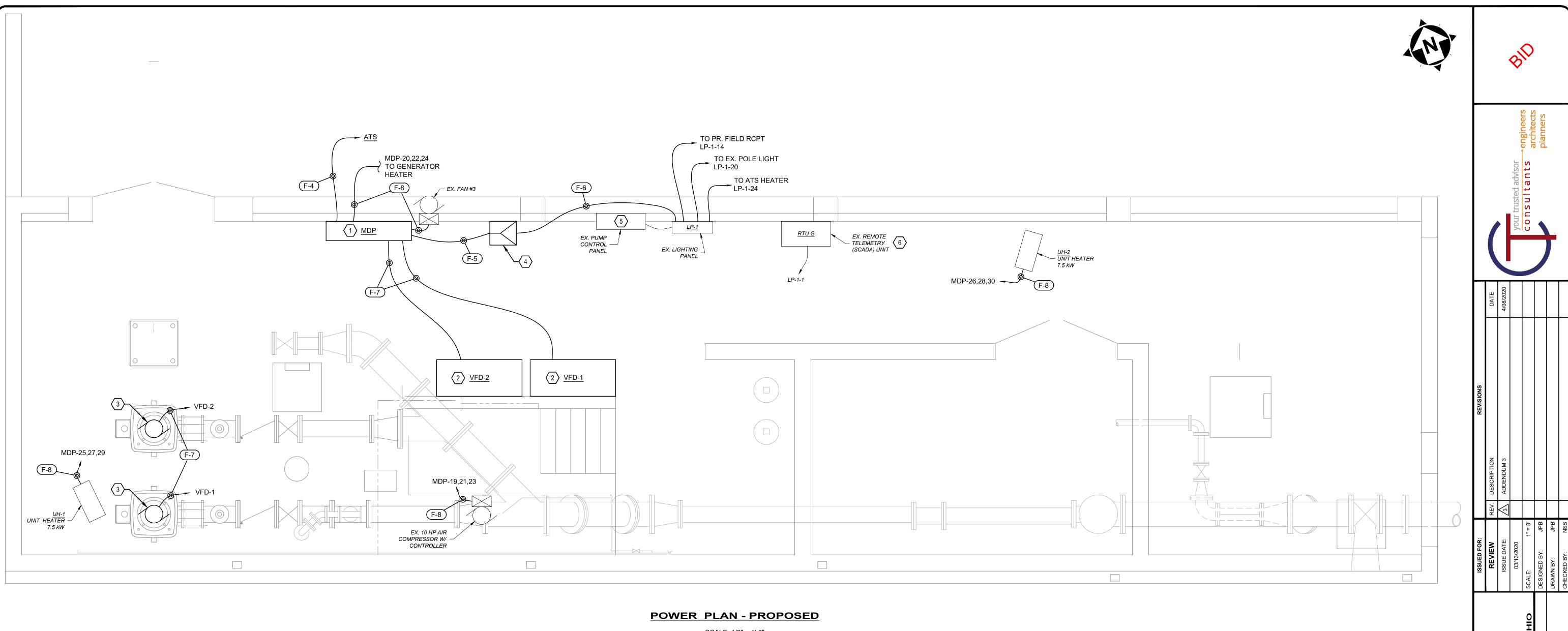
PROPOSED MAIN DISTRIBUTION PANEL SCHEDULE

PANELBOARD	MDP									
PANEL TYPE	HCP									
NEMA TYPE										
VOLTAGE					PHASE	3 3				
0CPD 600A				WIRE						
	FLOOR				BUSS	600A				
LOAD DESCR	RIPTION	LOAD	BKR.	CKT. NO.	PHASE	CKT. NO.	BKR.	LOAD	LOAD DESCRIPTION	
"XF" LIGHTING TRANSFORMER		25,000	65/2	1	A	2	15/3			
				3	В	4				
				5	С	6	-			
				7	A	8				
			15/3	9	В	10	15/3			
				11	С	12				
				13	A	14				
			15/3	15	В	16	15/3	1,865	FAN #3	
				17	С	18				
"COMP	D"			19	A	20				
AIR COMPRESSOR		9,325	15/3	21	В	22	15/3	6,500	GENERATOR BLOCK HEATER	
				23	C	24				
"UH-1"				25	A	26	-	7 500	"UH-2"	
UNIT HEATER #1		7,500	15/3	27	В	28	15/3	7,500	UNIT HEATER #2	
				29	C	30				
"VFD-1"		149,200	300/3	31 33	A B	32 34	300/3	149,200	"VFD-2"	
RAW WATER F	UMP #1	143,200	500/5	35	C	34	300/3	143,200	RAW WATER PUMP #2	
							356,090	VA	CONNECTED	
				393,390		DEMAND				
			473.17 A @ 480V, 3P, 3W							



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

$\langle x \rangle$ CODED NOTES - PROPOSED:

- 1. REPLACE EXISTING DISTRIBUTION PANEL "HDP" WITH MAIN DISTRIBUTION PANEL "MDP", SQUARE-D CAT# HCP18686M OR APPROVED EQUAL. LOCATE THE EXISTING BUILDING GROUNDING ELECTRODE CONDUCTOR AND EXTEND TO THE NEW PANEL GROUND BUS. REUSE EXISTING CONDUIT AS MUCH AS POSSIBLE. DISCONNECT AND RETERMINATE EXISTING 480V CIRCUITS TO NEW CIRCUIT BREAKERS. RUN NEW CONDUCTORS AS NEEDED. SEE SHEET #38, E-05 FOR ONE-LINE DIAGRAM AND FEEDER SCHEDULE.
- 2. REPLACE EXISTING RAW WATER PUMP SOFT STARTERS WITH VARIABLE FREQUENCY DRIVES. 460V, 3¢, 60 Hz, 3200 HP, NEMA 4X ENCLOSURE WITH DISCONNECT AND 14k BTU NEMA 4X AC UNIT. LOCATE NEW ENCLOSURES IN ORDER TO REUSE EXISTING EMBEDDED CONDUIT WHERE POSSIBLE. RUN NEW CONDUIT AS NEEDED FOR NEW CONDUCTORS. COORDINATE WITH SYSTEMS INTEGRATOR TO RUN CONTROL WIRING TO MODIFIED OR NEW REMOTE SCADA PANEL "RTU G".
- 3. RAW WATER PUMP MOTORS, 480V / 3¢ / 60 Hz / 200 HP. REUSE EXISTING CONDUIT WHERE POSSIBLE, REAM OR REPLACE AS NEEDED.
- 4. LIGHTING TRANSFORMER, 25 kVA, 480-240/120V, 16. RELOCATED FROM PAD NEAR EXISTING TRANSFER SWITCH AND SUSPENDED FROM CEILING NEAR NEW MDP. INSTALL IN SUCH A WAY TO MINIMIZE SHADOWS FROM EXISTING LIGHTING AND AT AN ELEVATION WHERE THE BOTTOM OF THE SUPPORT IS NO LOWER THAN THE TOP OF THE EMERGENCY LIGHTING.
- $\sqrt{3}$ 5. EXISTING PUMP CONTROL PANEL: REMOVE ALL "PUMP #3" MANUAL OPERATORS AND WIRING FROM DOOR BACK TO TERMINAL BLOCKS, REPLACE WITH PLUGS MATCHING DOOR FINISH. COORDINATE WITH SYSTEMS INTEGRATOR TO ADD DEVICES FOR NEW PUMPS CONTROLS.
 - 6. EXISTING REMOTE SCADA PANEL "RTU G": COORDINATE MODIFICATIONS NEEDED TO ACCOMMODATE NEW PUMP CONTROLS WITH SYSTEMS INTEGRATOR. CONTRACTOR TO INSTALL DEVICES AND WIRE, INTEGRATOR TO MODIFY PLC PROGRAMS AS NEEDED TO ACHIEVE PROCESS FUNCTIONS AND INCORPORATE INTO SCADA SYSTEM.

GENRAL NOTES:

1. EXISTING EQUIPMENT BASED ON DRAWING SET BY T-K ENGINEERING & DESIGN GROUP, INC. DATED JULY, 2002 AS WELL AS CHANGES NOTED DURING SITE VISITS

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				erigineers architects	planners			
			your trusted advisor	consultants ^{el}	σ .			
			your tru	cons				
	DATE	4/08/2020						
REVISIONS	REV. DESCRIPTION	ADDENDUM 3						
R:		7	C	1" = 8'	JPB	JPB	NSS	
ISSUED FOR:	MENIEM	ISSUE DATE:	03/13/2020	SCALE:	DESIGNED BY:	DRAWN BY:	снескер ву:	
VILLAGE OF CADIZ, OHIO WATER TREATMENT PLANT HAB				HARRISON COUNTY CADIZ, OHIO	PAN LAKE PUMP STATION			
PROJECT NO. 190599 DISCIPLINE ELECTRICAL								
		Sł	HEET	[•] NAN 04	1E			
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