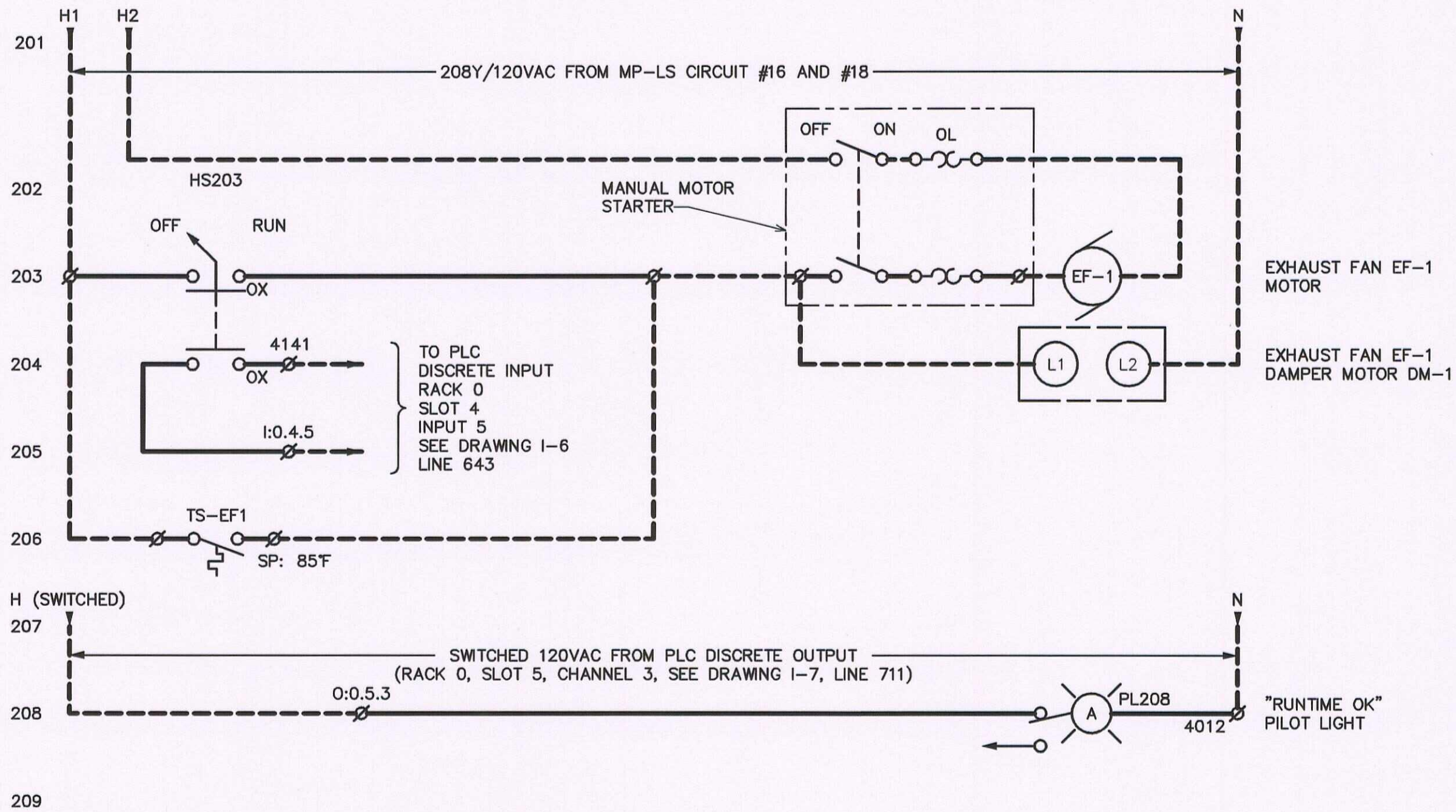


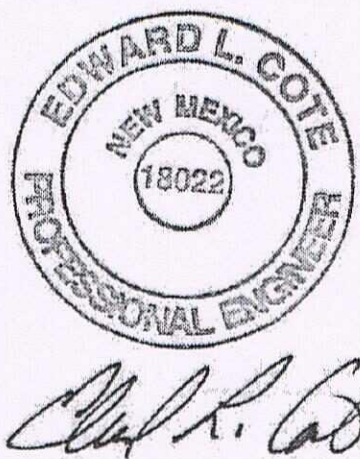
ELECTRICAL EQUIPMENT PARTIAL ELEVATION
N.T.S.

PACKAGE POWER UNIT MP-LS SCHEDULE					
PRIMARY MAIN BREAKER: 100 AMPS					
TRANSFORMER: PRIMARY: 480VAC, THREE-PHASE SECONDARY (DISTRIBUTION): 208Y / 120 VAC, THREE-PHASE SIZE: 15KVA					
SECONDARY MAIN-BREAKER: 50 AMPS					
CIRC. NO.	BRKR. SIZE	ITEM SERVED	LOAD (WATTS)		
			φX	φY	φZ
1	15A,1P.	LIFT STATION CONTROL PANEL	450	—	—
3	15A,1P.	LIFT STATION INSTRUMENT PANEL	—	200	—
5	15A,1P.	LIFT STATION – PUMP SUMP LEVEL TRANSMITTER	—	—	100
7	15A,1P.	LIFT STATION – STORAGE TANKS LEVEL TRANSMITTER	150	—	—
9	15A,1P.	LIFT STATION – PILOT INFLUENT FLOW TRANSMITTER	—	150	—
11	15A,1P.	FUTURE (PLANT ADMIN. INFLUENT FLOW TRANSMITTER)	—	—	—
13	15A,1P.	FUTURE	—	—	—
15			—	750	—
17	20A,3P.	AIR COMPRESSOR CONTROL PANEL			750
19			750		
21	15A,1P.	SPARE	—	—	
2	15A,1P.	LIFT STATION – EXTERIOR LIGHTS	350	—	—
4	15A,1P.	LIFT STATION – STORAGE TANKS FLOODLIGHTS	—	900	—
6	15A,1P.	LIFT STATION – INTERIOR LIGHTS	—	—	350
8	20A,1P.	LIFT STATION – EXTERIOR RECEPTACLE	300	—	—
10	20A,1P.	LIFT STATION – INTERIOR RECEPTACLES	—	300	—
12	20A,1P.	HEAT TRACE CONTROL PANEL	—	—	1500
14	20A,1P.	FUTURE (STORAGE TANKS ACCESS LIGHTS)	—	—	—
16			—	520	—
18	20A,2P.	LIFT STATION – VENT FAN/DAMPER ACTUATOR	—	—	610
20			—	—	—
22	20A,2P.	SPARE	—	—	—
TOTAL CONNECTED LOAD			2000	2820	3310

BILL OF MATERIALS				
TAG #	QTY.	PART #	MANUFACTURER	DESCRIPTION
1	1	DH36N4WK	EATON / CUTLER HAMMER	4-WIRE (THREE BLADES, 3-FUSES, S/N) 480VAC – 600VAC, SAFETY SWITCH WITH NEMA 4X CORROSION-RESISTANT, STAINLESS STEEL ENCLOSURE WITH THREE 60 AMP CLASS "H" FUSES.
2	2	8536-SDW14V02S	SQUARE-D	3-POLE POLYPHASE, FUSIBLE, FULL VOLATAGE COMBINATION STARTER WITH CLASS "H" FUSE CLIPS AND NEMA 4X CORROSION-RESISTANT, STAINLESS STEEL ENCLOSURE
3	1	SEE CONTROL PANEL BILL OF MATERIALS ON SHEET I-3 FOR PART NUMBERS AND MANUFACTURER		
4	1	P48G28T15SSCUB	EATON / CUTLER HAMMER	MINI-POWER CENTER WITH 480VAC 3-PHASE PRIMARY TO 208Y / 120VAC SECONDARY. WITH NEMA 3R 316 STAINLESS STEEL ENCLOSURE.
	11	BAB1015		BOLT-ON, 1-POLE 15 AMP BREAKER
	4	BAB1020		BOLT-ON, 1-POLE 20 AMP BREAKER
	2	BAB2020		BOLT-ON, 2-POLE 20 AMP BREAKER
	1	BAB3020		BOLT-ON, 3-POLE 20 AMP BREAKER
5	1	CM-2001-4XS	NELSON	120VAC SINGLE-POINT CIRCUIT MANAGEMENT SYSTEM – HEAT TRACE PANEL
6	1	A12106CHNFSS	HOFFMAN	12"H X 10"W X 6"D NEMA 4X STAINLESS STEEL ENCLOSURE
	1	A12P10G		CONDUCTIVE SUBPLATE FOR ENCLOSURE ABOVE
	1	1492-PDL3141	ALLEN-BRADLEY	POWER DISTRIBUTION BLOCK
7	1		OZ GEDNEY OR EQUAL	FS-TYPE DOUBLE-GANG BOX WITH WEATHER-PROOF WHILE-IN-USE COVER
	1	GFR5262SGI	HUBBELL	120VAC, 15 AMP INDUSTRIAL GRADE GFCI DUPLEX RECEPTACLE WITH SELF-TEST / TAMPER RESISTANT FEATURE
8	1	INSTRUMENTATION ENCLOSURE, SIMILAR TO LIFT STATION CONTROL PANEL EXCEPT WITH A 200 WATT THERMOSTATICALLY CONTROLLED PANEL HEATER		
9	1	H361DS	SQUARE-D	3-WIRE (THREE BLADES, 3-FUSES, S/N) 480VAC – 600VAC, SAFETY SWITCH WITH NEMA 4X CORROSION-RESISTANT, STAINLESS STEEL ENCLOSURE WITH THREE 15 AMP CLASS "R" FUSES.



LIFT STATION EXHAUST FAN EF-1
MOTOR STARTER WIRING DIAGRAM



WESTERN REFINING - GALLUP

SANITARY
WASTEWATER
LIFT STATION

JAMESTOWN NEW MEXICO 87347

EQUIPMENT RACK AND BILL OF MATERIALS, LIGHTING SCHEDULE AND MOUNTING DETAILS

HRC JOB NO. 20070465 SCALE AS NOTED
DATE JANUARY 2008 SHEET NO. E-2