

ROOM NUMBERS

INCANDESCENT LIGHT

2 LAMP INCANDESCENT LIGHT

4 TUBE 8' F96 TYPE FLOURESCENT FIXTURE

4 TUBE 8' F40 TYPE FLOURESCENT FIXTURE

DROP LIGHT

120 VOLT RECEPTACLE

240 VOLT RECEPTACLE

20 AMP 120V SINGLE RECEPTACLE

20 AMP 480V 3 ϕ 4W GROUNDING RECEPTACLE

MOTOR - H.P. AS INDICATED

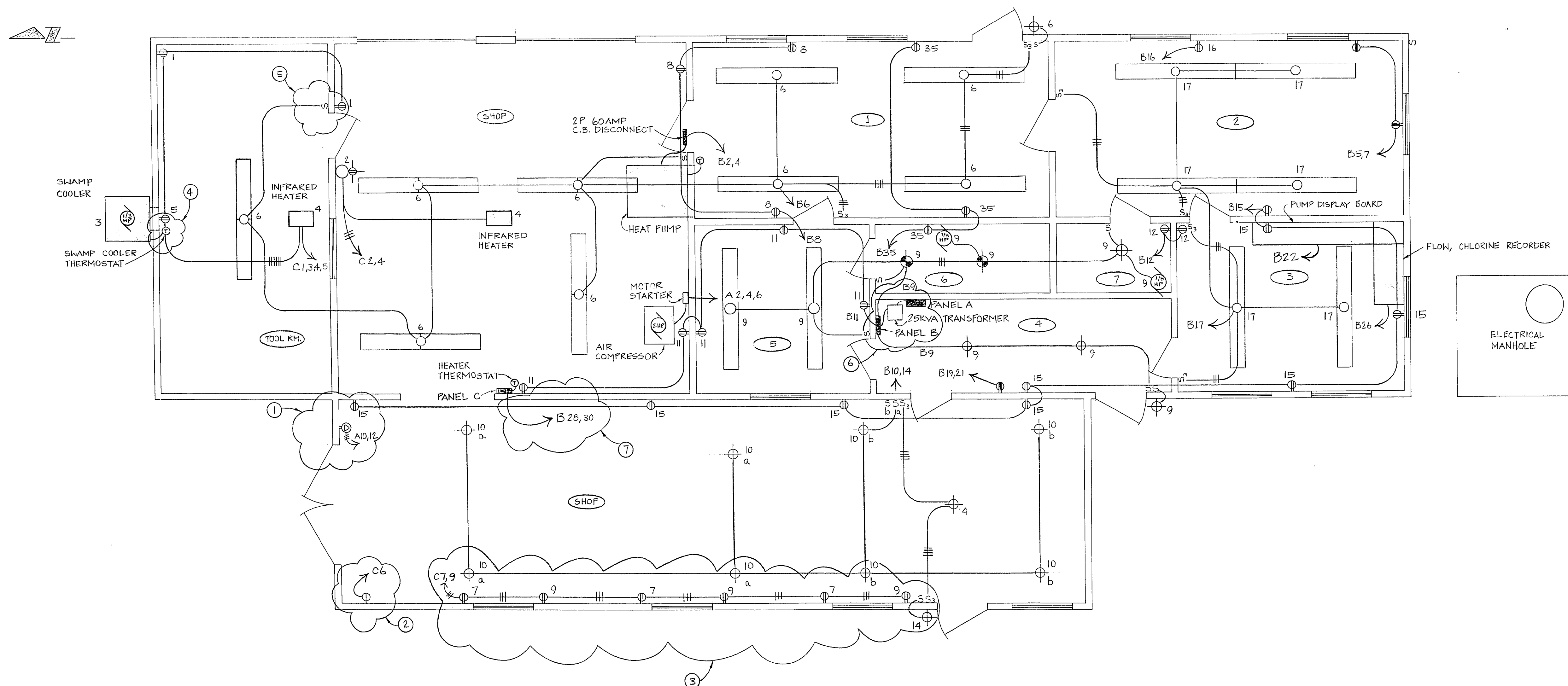
CONSTRUCTION NOTE

PANEL "A":
G.E. TYPE NHB STYLE 2 125 AMP
480 V 3Ø 3W
USE GE TED B C/B

PANEL "B":
G.E. TYPE NLAB STYLE 5 100 AMP
120/240V 1Ø 3W
USE GE THOB C/B

TRANSFORMER:
GEN. ELEC. MODEL # 9T21 B9110
60 Hz 25KVA
TYPE QM

- ① INSTALL A 20 AMP 480 VOLT 3 Ø 4 WIRE GROUND POWER RECEPTACLE FOR 7-1/2 HP CHOP SAW. INSTALL A SIZE 1, 3 POLE MAGNETIC STARTER WITH FULL OVERLOAD PROTECTION IN A NEMA 12 ENCLOSURE ON THE SAW WITH AN OSHA APPROVED STOP/START SWITCH. CONDUIT SHALL BE 3/4". CONDUCTORS SHALL BE #10 TO PANEL 'A'. WIRING SHALL BE CONNECTED TO A 3 POLE 30 AMP 480 VOLT CIRCUIT BREAKER G.E. CATALOG NUMBER . 600 VOLT 12/4 S.O. CORD SHALL BE USED FROM STARTER TO MOTOR AMP RECEPTACLE. RECEPTACLE SHALL BE LEVITON CATALOG NUMBER 71620-FR. PLUG SHALL BE LEVITON CATALOG NUMBER 71620-P.
- ② INSTALL A 20 AMP 125 VOLT 1 Ø SINGLE RECEPTACLE OUTLET LEVITON CATALOG NUMBER 5361 ON A SEPARATE CIRCUIT.
- ③ INSTALL GENERAL PURPOSE DUPLEX RECEPTACLES AT 3'-6" TO CENTER OF RECEPTACLES ABOVE FLOOR. LEVITON CATALOG NUMBER 5242.
- ④ REPLACE EXISTING LINE VOLTAGE COOLING THERMOSTAT WITH A LINE VOLTAGE HEATING/COOLING UNIT. INSTALL ADDITIONAL CONDUCTOR TO HEATER IN SUPPLY ROOM FROM NEW THERMOSTAT AND DISCONNECT THE EXISTING CIRCUIT CONDUCTOR FROM EXISTING THERMOSTAT IN THE SHOP TO THE HEATER AND TAPE BOTH ENDS.
- ⑤ INSTALL SINGLE POLE AC SWITCH TO CONTROL LIGHT IN SUPPLY ROOM, LEVITON CATALOG NUMBER 1221.
- ⑥ REPLACE 25 KVA TRANSFORMER WITH A 50 KVA TRANSFORMER. UPGRADE 2P 50 AMP CIRCUIT BREAKER IN PANEL 'A' TO 100 AMP. UPGRADE 125 AMP PANELBOARD, PANEL 'B', TO A 42 CIRCUIT 225 AMP PANELBOARD. UPGRADE FEEDERS TO #2 FROM PANEL 'A' TO TRANSFORMER AND #3/0 FROM TRANSFORMER TO NEW PANEL 'B'. TRANSFORMER SHALL BE 480 VOLT PRIMARY 120/240 VOLT 1 Ø SECONDARY IN A NEMA 1 ENCLOSURE.
- ⑦ UPGRADE FEEDERS AND CONDUIT FROM PANEL 'B' TO PANEL 'C'. CONDUIT SHALL BE 1-1/4" CONDUCTORS #2. REPLACE 60 AMP BREAKER IN PANEL 'B' WITH A 100 AMP, 2 POL E.



Department of Public Services
Engineering Design Division

WASTE - WATER TREATMENT PLANT
OPERATIONS BUILDING PLAN

ELECTRICAL SYSTEM
ADDITIONS / MODIFICATIONS

Drawing no.
311.16

5-1-914