

SERVICE PUMP ND. 1 SERVICE PUMP NO. 3 VFD VFD VFD 200 A., 3 P RAW WATER PANEL "P1" PUMP NO. 2 VFD VFD 100 A., 3 P. 20 A., 3 P.20 A., 3 P. VALVE PUMP PIT ROOM FLOCCULATOR FLOCCULATOR HTR HTR (13) SIZE 1 (8) SIZE 2 100 A., 3 P. 30 A., 3 P. 35 A., 3 P. CHEM. RWI AIR MIXER SPD ROOM COMPRESSOR BACKWASH HTR (14) SIZE 1 (a) SIZE 3 SPACE 100 A., 3 P. PANEL "P2" HIGH SERVICE FLOCCULATOR PUMP NO. 2 (15) SIZE 1 SPACE SPACE FLOCCULATOR "A2" SPACE

MOTOR CONTROL CENTER "MCC" LAYOUT SCALE: NONE

LEGEND:

3{ ---CONTROL TRANSFORMER S ---SELECTOR SWITCH

ETM ---ELAPSED TIME METER ss --- ON - OFF SELECTOR SWITCH

HOA ---HAND - OFF - AUTO SELECTOR SWITCH

LOR ---LOCAL - OFF - REMOTE SELECTOR SWITCH FVNR ---FULL VOLTAGE NON-REVERSING

X ---OVERLOAD

---CIRCUIT BREAKER — --- DISCONNECT SWITCH (FUSIBLE)

———DISCONNECT SWITCH (NON-FUSIBLE)

(1) ---AC MOTOR W/HP

SP ---SURGE PROTECTION DEVICE

ALT ---ALTERNATOR CONTROL

PB ---START/STOP PUSHBUTTONS PW ---PART WINDING START

FVR ---FULL VOLTAGE REVERSING

SSRV ---SOLID STATE REDUCED VOLTAGE

CC ---CONTROL CIRCUITRY PF ---PHASE FAILURE, PHASE REVERSAL,

PHASE UNBALANCE RELAY CSM ---CONTROL AND STATUS MODULE

ALL PROPOSED POWER, CONTROL, AND SIGNAL WIRING AND CABLES SHALL BE PROPERLY IDENTIFIED AND LABELED WITH AN APPROVED MARKING SYSTEM AT ALL LOCATIONS AS CALLED FOR IN THE DETAILED SPECIFICATIONS, ALL POWER AND BRANCH CIRCUIT WIRING SHALL BE TAGGED TO MATCH MOTOR CONTROL CENTER OR PANEL SCHEDULES, ALL MOTOR LEAD WIRING SHALL BE TAGGED TO MATCH MOTOR NUMBERS WITH T1,
T2, T3 IDENTIFYING EACH LEAD, ALL CONTROL AND
SIGNAL WIRING SHALL BE TAGGED TO MATCH THE

EQUIPMENT VENDOR'S DETAILED INTERCONNECTION 2) ALL PROPOSED MOTOR STARTER OVERLOAD RELAYS

AND PROTECTION DEVICES SHALL BE SET TO MATCH ASSOCIATED MOTOR SERVICE FACTOR RATING AND NOT SET FOR MOTOR FULL LOAD CURRENT.

(3) LOCAL DISCONNECT SWITCHES FOR MOTORS CONTROLLED BY VARIABLE FREQUENCY DRIVES SHALL BE EQUIPPED WITH AUXILIARY CONTACTS AND CONTROL WIRING INTERLOCKED WITH RESPECTIVE VFD. 4 PROVIDE 4' HIGH CONCRETE PADS FOR ALL FLOOR

MOUNTED ELECTRICAL EQUIPMENT AND ANCHOR ALL ELECTRICAL PANELS & EQUIPMENT TO FLOOR AND WALLS. THE EXACT AIC RATING OF THE MOTOR CONTROL CENTER AND PANELBOARDS. SHALL BE COORDINATED WITH POWER SYSTEM'S AVAILABLE FAULT CURRENT

AND ADJUSTED ACCORDINGLY.

PHILLIPS
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JUNE 2015 **AS SHOWN**

This document, originally issued, sealed, and signed by JAMES D. PHILLIPS,

Tennessee Professional Engineer, No. 016308, on JUNE 2015, shall not be

used in lieu of a certified

document.

ROL CENTER "MCC

CONT

MOTOR

HIS RECORD DOCUMENT HAS BEEN PREPARED BASED ON

GRW ENGINEERS, INC. HAS ATTEMPTED TO VERIFY THE

WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

ENGINEER/ARCHITECT: JAMES D. PHILLIPS

CONSTRUCTION COMPANY: QUINN CONS CORP.

NFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTO

CCURACY AND/OR COMPLETENESS OF THIS INFORMATION B

SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS