- 120VAC POWER CIRCUITS FOR NEW I AND C PANEL AND FOR FLOWRIDE METERING PUMP
- RECEPTACLES. 4-#12, 1-#12GND, 3/4" C. CONNECT TO SPARE IP-20A CIRCUIT BREAKERS.
- 2 HSP MOTOR STATUS WIRING, 4-#14 GND, 1-#14 GND, 3/4" C.
- $\sqrt{3}$  MOTOR STATUS WIRING, 12-#14, 1-#14 GND, 3/4" C.
- 4 J-BOX, TYPICAL.
- 5 FIRE ALARM AND SECURITY SYSTEM TROUBLE AND ALARM STATUS WIRING, 4-#14, 1-#14
- 6 TELEPHONE-TO-SCADA CONNECTION WIRING. 1-TWO PAIR CABLE FOR DIALER, 1-TWO PAIR CABLE FOR MODEM, 2-ONE PAIR CABLE FOR ON-OFF CONTROL OF WELL PUMP MOTORS, 1"
- 7 DELTED.
- 8 DELETED.

-3/4"  $\times$  10' GROUND ROD 12" BELOW GRADE, TYPICAL OF TEN

FOR BUILDING.

- 9 DELETED.
- (10) TWO 4-20MADC INSTRUMENT CABLES, 3/4" C., CL2 MEASUREMENT.
- (11) NEW AUTOMATIC TRANSFER SWITCH. (F-1 ALT. BID)
- (12) NEW EMERGENCY GENERATOR ANNUNCIATOR PANEL. (F-1 ALT. BID)
- (13) 4-#14, 1-#14 GND, 1/2" C., ATS POSITION WIRING. (F-1 ALT. BID)
- (14) 4-#14, 1-#14 GND, 1/2" C., EMERGENCY GENERATOR PRE-ALARM AND ALARM STATUS.
- (15) ONE 4-20MADC INSTRUMENT CABLE, 1/2" C., FOR PRESSURE MEASUREMENT.
- (16) FIVE 4-20MADC INSTRUMENT CABLES, 1 1/4" C.
- NEW LOCAL INDICATOR AND TRANSMITTER FOR PLANT DISCHARGE PRESSURE, CORD AND PLUG CONNECTED TO 120VAC.
- (18) NEW DUPLEX RECEPTACLE AND SURFACE BOX.
- 19 120VAC CIRCUIT, 2-#12, 1-#12 GND, 1/2" C., CONNECT TO SPARE IP-20A CIRCUIT BREAKER IN EXISTING BRANCH CIRCUIT PANELBOARD.
- 20 NEW LOCAL INDICATOR, TOTALIZER, AND TRANSMITTER FOR FINISHED WATER FLOW.
- 21) FLOW METER INSTRUMENT CABLE, 1/2" SEALTIGHT FLEX, C. 9-CONDUCTOR BELDEN CABLE.
- 22 NEW FINISHED WATER FLOW METER.
- TWO 4-20MADC INSTRUMENT CABLES, 3/4" C., FOR RAW WATER FLOW MEASUREMENT AND FINISHED WATER FLOW MEASUREMENT.
- NEW AERALATER DETENTION TANK LEVEL PRESSURE SENSOR, LOCAL INDICATOR AND
- (25) 4-#14, 1-#14 GND, 3/4" C.
- 26 PANELVIEW
- 6-#12, 1-#12 GND, 3/4" C. 120VAC CIRCUITS FOR ENERGIZING FLUORIDE PUMP RECEPTACLES.
- (28) EXISTING RECEPTACLES FOR FLUORIDE METERING PUMPS.
- $\langle 29 \rangle$  2-#12, 1-#12 GND, 1/2" C., 120VAC CIRCUIT FOR FLUORIDE PUMPS.
- (30) 2-#14, 1-#14 GND, 1/2" C. FOR CL2 DETECTION ALARM.
- (31) EXISTING CL2 DETECTION UNIT.
- (32) EXISTING CL2 SCALE UNIT.
- ONE 4-20MADC ANALOG INSTRUMENT CABLE, 1/2" C., FOR CL2 SCALE OUTPUT.
- (34) NEW PRESSURE TRANSDUCER.
- 35) NEW PORTABLE PC NETWORK OUTLET; +42".
- (36) CAT 5 ETHERNET CABLE, 1/2" C.
- (37) COAX RF ANTENNA CABLE, 11/2" C.
- (38) LB THROUGH WALL NEAR GROUND LEVEL, UNDERGROUND 11/2" C. TO ANTENNA MAST.
- (39) EXISTING BREATHING APPARATUS CABINET.
- (40) NEW RAW WATER UP-FLOW METER.
- 41) FLOW METER INSTRUMENT CABLE, 1/2" C.
- RETROFIT VALVE WITH NEW LIMIT SWITCHES FOR VALVE OPEN AND VALVE CLOSED POSITIONS. REVISE CONTROL WIRING TO SHUT-OFF HSP IF VALVE FAILS TO OPEN. MONITOR VALVE
- (43) NEW HACH ANALYZER, WITH CORD AND PLUG CONNECTED TO 120VAC.
- TWO 4-20MADC INSTRUMENT CABLES, 3/4" C., HACH MEASUREMENT.
- PRE-FILTER AND POST-FILTER CL2 INJECTION SOLENOIDS. 2-#14, 1-#14 GND, 1/2" C. EACH. APPROXIMATE LOCATION. PRE-CL2 SOLENOID ENERGIZED WHEN A WELL PUMP IS "ON"; POST-CL2 SOLENOID ENERGIZED WHEN HSP IS "ON".

JWS

CHECKED:

APPROVED:

F2-E3\_REVISED.dwg

NOVEMBER, 2001

SHEET NO.

E3/584

SCALE:

AS NOTED

HOOSIER HILLS REGIONAL WATER DISTRICT DIVISION "F" WATERWORKS SYSTEM IMPROVEMENTS **CONTRACT F-2** 860165 GRW Engineers, Inc. STATE OF ENGINEERING COMPANY ELECTRICAL I AND C PLAN Engineers, Architects, Planners **AS-BUILT REVISION** 5/2004 GCR 1545 COUNTRY CLUB ROAD INDIANAPOLIS, INDIANA
LOUISVILLE & LEXINGTON, KENTUCKY
CINCINNATI, OHIO
NASHVILLE, TENNESSEE
ARLINGTON, TEXAS WATER TREATMENT PLANT IMPROVEMENTS INDIANAPOLIS, INDIANA 46234 NO. (317) 209-4035 (FAX) 209-4035 DATE DESCRIPTION

JWSA PROJECT NO. 2001-05

**GRW PROJECT NO. 2745** 

**REVISIONS** 

NOTES: