

ELECTRIC VALVE ACTUATOR

PLAN NOTES:

1. WELL #5 I/O COMMUNICATED TO BOOSTER STATION CONTROL PANEL PLC VIA EXISTING WIRELESS 900 MHZ RADIO.
2. NEW EMERGENCY INTERCONNECT STATION FLOW TO BE OBTAINED VIA NETWORK COMMUNICATION.
3. EXISTING WELL #5 (LOCATED OFFSITE) AND WELL #6 (LOCATED ONSITE) ARE BEING RETAINED AS BACKUP WATER SUPPLIES. WELLS 2, 3 & 4 ARE BEING ABANDONED.
4. FEED FROM BUFFALO GROVE SHALL BE PRIMARY SUPPLY TO FILL PEKARA RESERVOIR. PROGRAM PLC SHALL OPEN/CLOSE 768-FCV-0101 BASED ON FILL (OPEN) AND FULL (CLOSE) SETPOINTS.
5. RESERVOIR LEVEL CONTROL SHALL USE INFORMATION FROM EXISTING SUBMERSIBLE LEVEL ELEMENTS LOCATED IN EITHER CHAMBER 1 OR CHAMBER 2. OPERATOR WILL BE ABLE TO MANUALLY SELECT WHICH ELEMENT SHALL BE USED FOR PRIMARY LEVEL CONTROL. PLC SHALL AUTOMATICALLY SWITCH OVER TO SECONDARY ELEMENT UPON LOSS OF SIGNAL OF SELECTED PRIMARY ELEMENT.
6. FLOW FROM BUFFALO GROVE SHALL BE MONITORED USING FLOW METER (768-FIT-0102/768-FE-0102), THE PLC SHALL TRACK, AND STORE FLOW TOTALS. FLOW TOTALS SHALL BE RELAYED VIA RADIO COMMUNICATIONS.

REVISIONS / REMARKS				
NO.	DESCRIPTION	DATE	BY	SURVEYOR:

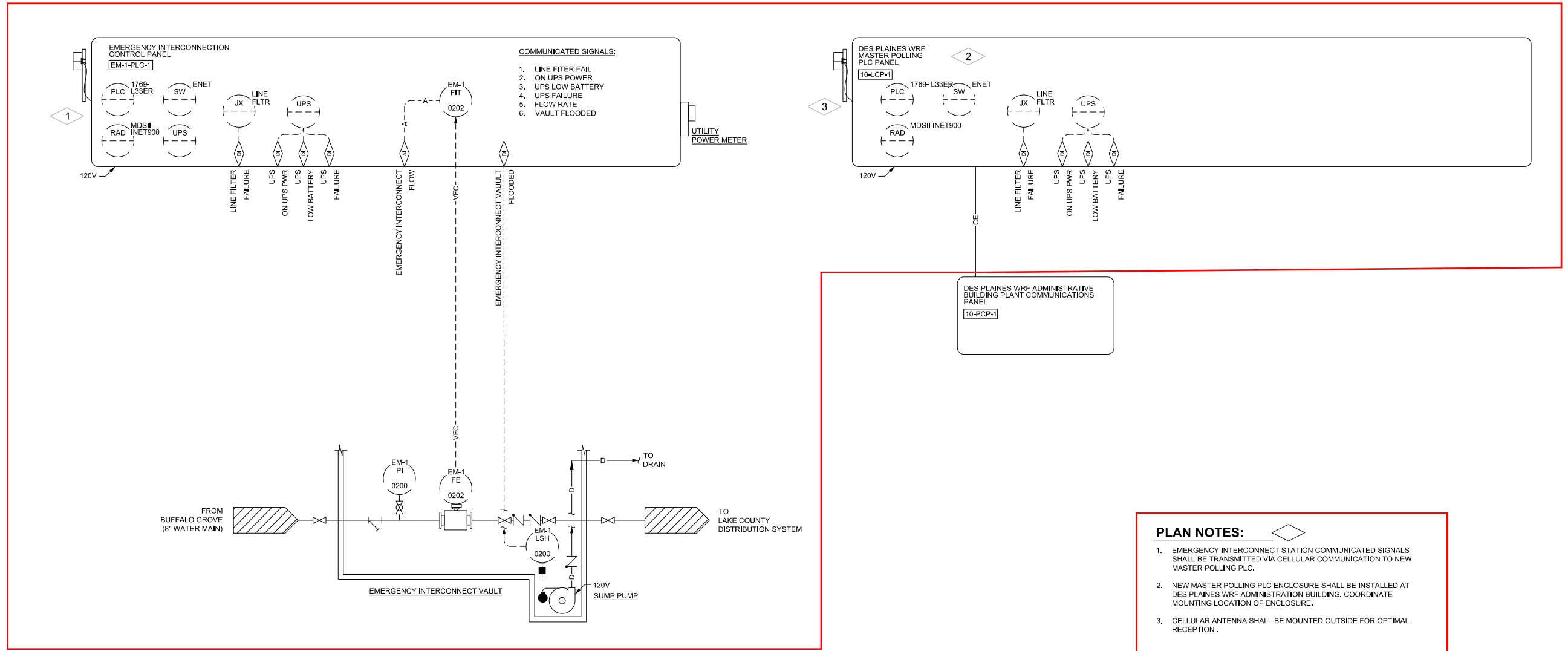
PEKARA-BUFFALO GROVE LAKE MICHIGAN WATER INTERCONNECT



PIPING AND INSTRUMENTATION DIAGRAM



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- PLAN NOTES:**
- EMERGENCY INTERCONNECT STATION COMMUNICATED SIGNALS SHALL BE TRANSMITTED VIA CELLULAR COMMUNICATION TO NEW MASTER POLLING PLC.
 - NEW MASTER POLLING PLC ENCLOSURE SHALL BE INSTALLED AT DES PLAINES WRF ADMINISTRATION BUILDING. COORDINATE MOUNTING LOCATION OF ENCLOSURE.
 - CELLULAR ANTENNA SHALL BE MOUNTED OUTSIDE FOR OPTIMAL RECEPTION.

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