

SECONDARY SOFTENER

DIMENSIONS	: 9'-0" DIA. X 6'-6" S,S
DESIGN PRESSURE	: 115 PSIG (BOT)/110 PSIG (TOP)
LINED WITH	: FNGARD 482
RESIN CAPACITY	: 243 FT3
DESIGN TEMP	: 250°F
CAPACITY	: 604 FT3

The diagram illustrates the typical wiring for a Softener Main Panel. It is divided into two main sections: S.S. PSG (TOP) and S.S. PSG (BOTTOM).

S.S. PSG (TOP):

- PACKAGE LIMIT:** A vertical line on the left side of the top section.
- INTERLOCK PANEL:** A panel on the right side of the top section.
- BATCH PANEL:** Two panels on the right side of the top section.
- SOFTENER MAIN PANEL:** The central panel in the top section, containing:
 - Three indicator lamps: XI (Service Time), SP (AH), and Y (AH).
 - Valves Open/Close Indicator Lamps (TIP. 12): Three lamps labeled R, R, and R.
- PRIMARY SOFTENER SOLENOID PANEL:** A panel on the left side of the top section.
- SECONDARY SOFTENER SOLENOID PANEL:** A panel on the right side of the top section.

S.S. PSG (BOTTOM):

- VALVE OPEN POSITION SWITCH (TYPICAL):** A switch labeled T, connected to a solenoid (CV) and a solenoid (SOV). The solenoid (SOV) is connected to a solenoid (SOV) and a solenoid (SOV).
- VALVE OPEN POSITION SWITCH (TYPICAL):** A switch labeled T, connected to a solenoid (CV) and a solenoid (SOV). The solenoid (SOV) is connected to a solenoid (SOV) and a solenoid (SOV).
- FROM FT'S FOR BRINE & SERVICE WATER:** A line on the right side of the bottom section.
- PACKAGE LIMIT:** A vertical line on the right side of the bottom section.

Typical for Valves:

- CV 1235A,B,C,D ETC
- FCV 1227
- FCV 1228
- FCV 1229
- FCV 1234

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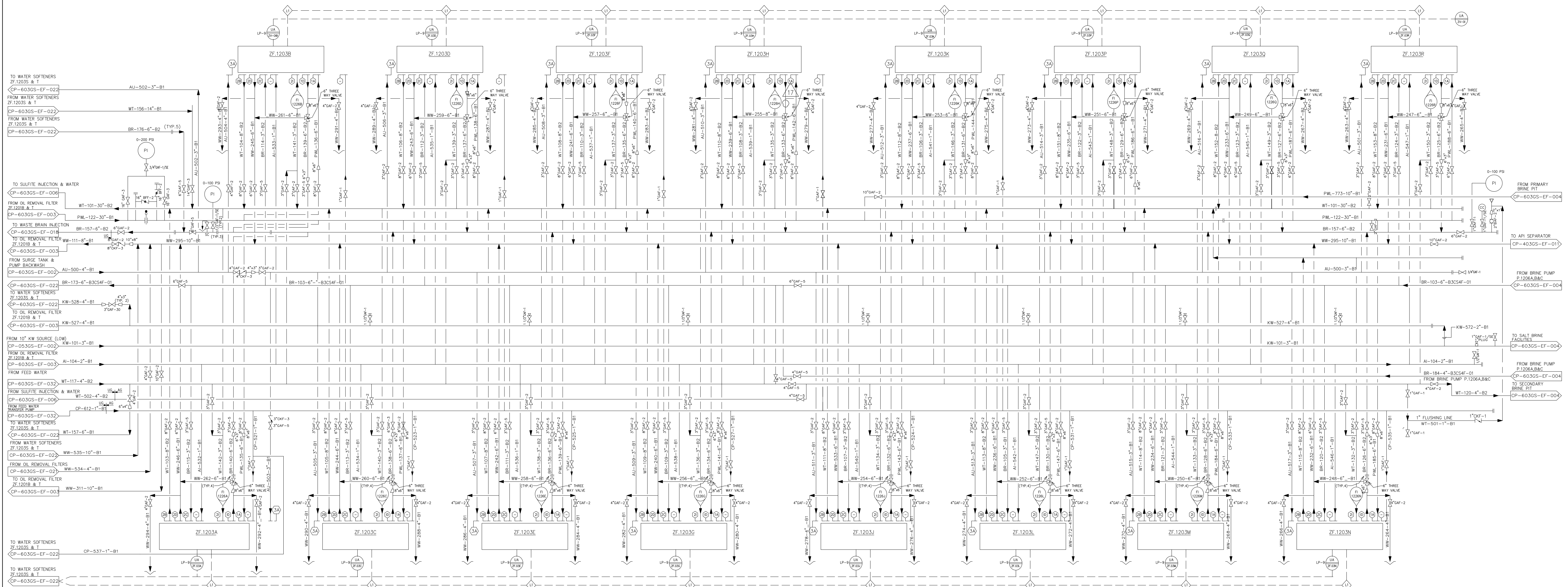
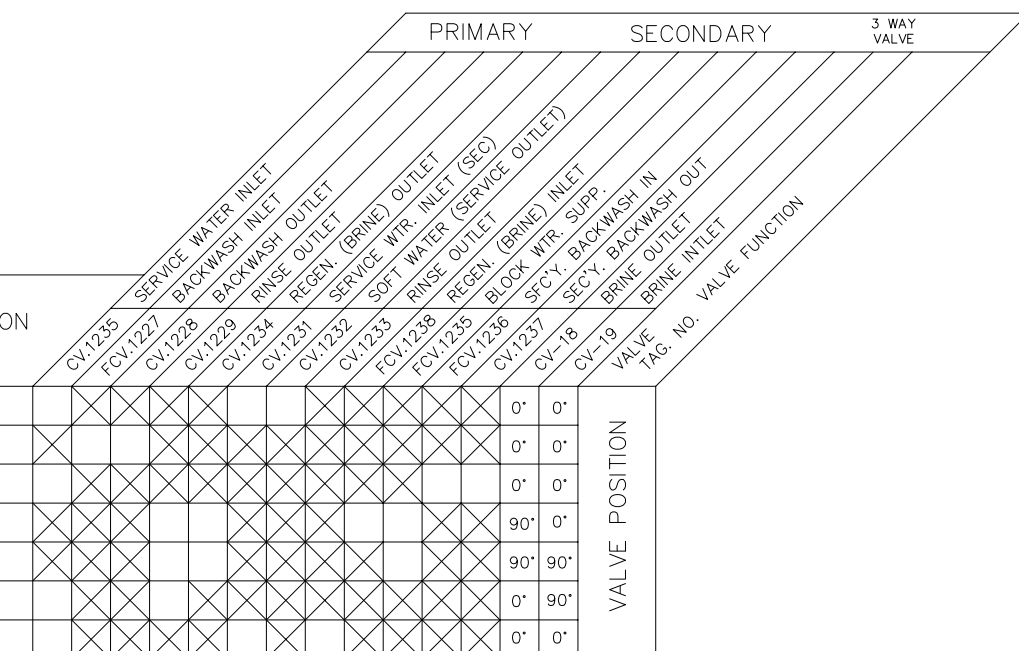
- CV 1231A,B,C,D ETC
- FCV 1232
- FCV 1236
- FCV 1237
- CV 1233
- FCV 1235
- FCV 1250

Legend:

- RED : CLOSED
- GREEN : OPEN

OPERATION STEP	SOFTENER FUNCTION MODE
6	NORMAL SERVICE
1	BACKWASH (PRIMARY)
REF	BACKWASH (SECONDARY)
2	REGENERATION (BRINE INTRO)
3	BRINE DISPLACEMENT (PRIM'Y)
4	RINSE (PRIMARY)
5	RINSE (SECONDARY)

8037.ZF. 1203 A
WATER SOFTENERS



1. ALL EQUIPMENT, INSTRUMENT AND LINE NUMBERS ON THIS DRAWING HAVE THE PREFIX 8037 UNLESS OTHERWISE NOTED.	4. BACKWASH OF SECONDARY SOFTENERS TO BE CARRIED OUT AUTOMATICALLY BY PUSH BUTTON FURNISHED ON THE PANEL.	6. THE POI ON ZF-1203A HAS BEEN DEMOLISHED
2. THE LETTERS 'Y' & 'O' ARE NOT USED IN THE EQUIPMENT NUMBERING SYSTEM.	5. PSVS FOR SOFTENING PACKAGE UNITS ZF-1203B THRU ZF-1203K TO BE TAGGED 1212B, 1212C,.....1212K FOR PRIMARY SOFTENER A &	7. THE N4 ON ZF-1203A IS BLUNDED ONLY
3. FOR STANDARD PAID LEGEND SEE THE FOLLOWING DRAWINGS - FOR PIPING & EQUIPMENT DWG NO. CP-0500A-FP-002 - FOR INSTRUMENTATION DWG NO. CP-0500A-IF-003	6. THE N12130 # ON ZF-1203 A HAS BEEN DEMOLISHED	

1. ONLY 2 PACKAGED SOFTENER UNITS ARE TO BE IN "REGENERATION" AT A TIME

[illegible]

DRAWN	MST. 06/09/86
CHECKED	WW. 31/10/86
DESIGN ENG'R.	INP. 13/09/86
DESIGN TEAM LEADER	
PROJECT ENG'R.	IHR. 22/10/86 OK 23/10/86
OPR'G DEPT.	

DRAWING TITLE
 PIPING & INSTRUMENT DIAGRAM
 WATER SOFTENERS
 WATER TREATMENT PLANT
 CENTRAL GATHERING STATION
 DURI AREA-3

ITC NO.	21/OE-PMF/RP/2011 21/OE-PMF/2011
SCALE :	NTS
SIZE :	
DRAWING NO.	

DRAWN WITH CAD
NEVER CHANGE THIS
DRAWING BY HAND

CP-603GS-EF-005-18

