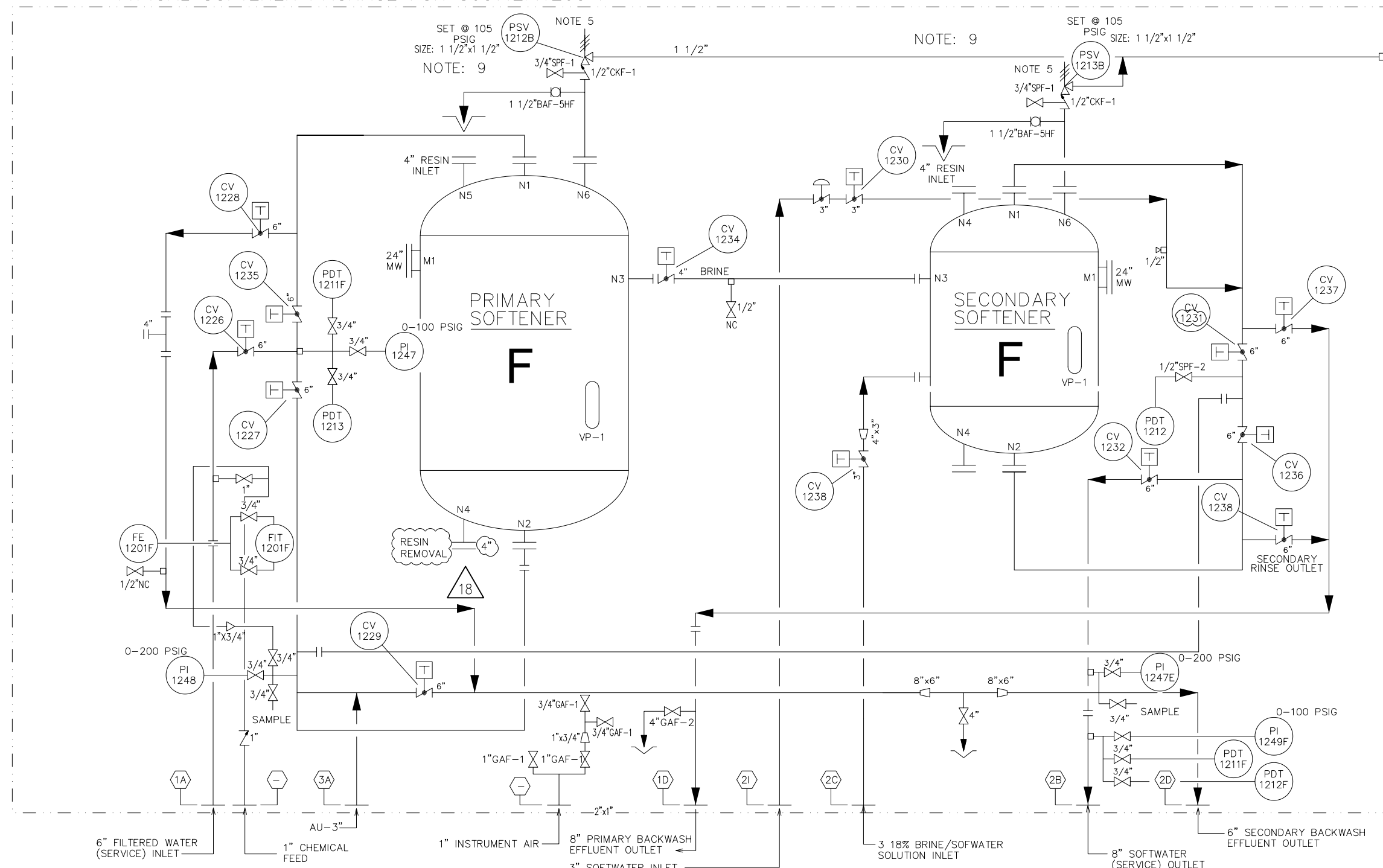


TYPICAL SOFTENER PACKAGE FOR 8037.ZF.1203 F

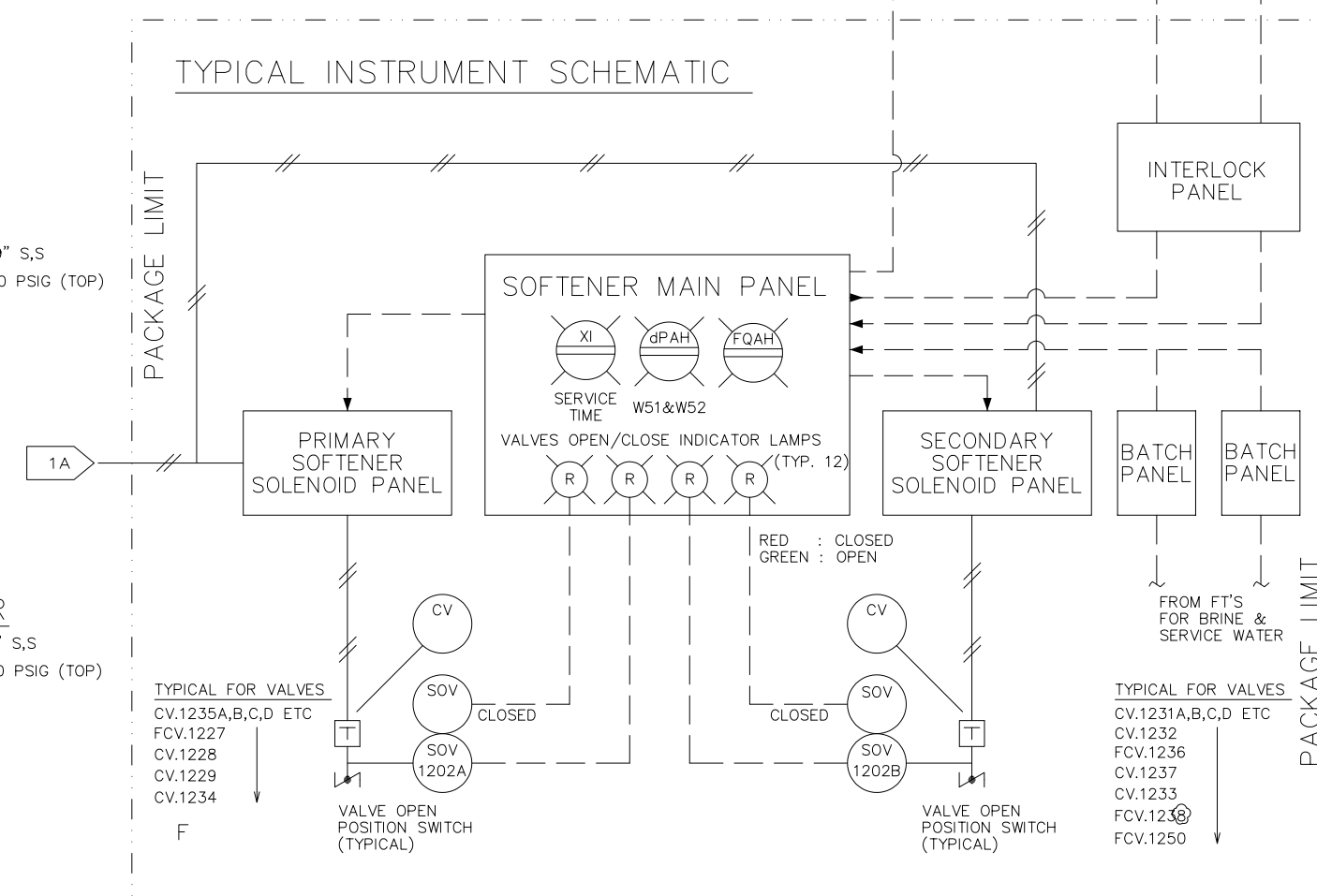


PRIMARY SOFTENER

DIMENSIONS	: 12'-0" DIA. X 9'-9" S,S
DESIGN PRESSURE	: 115 PSIG (BOT)/100 PSIG (TOP)
LINED WITH	: ENGARD 482
RESIN CAPACITY	: 243 FT3
DESIGN TEMP	: 250°F
CAPACITY	: 1543 FT3

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

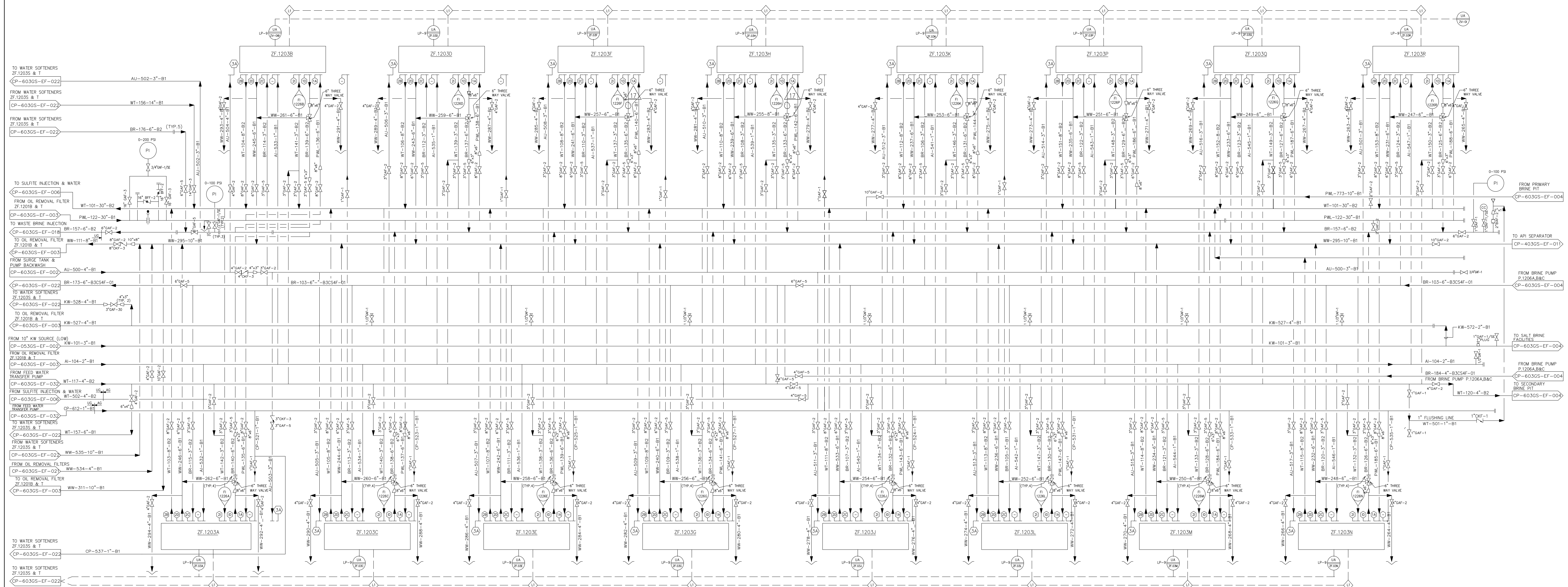


CONTROL VALVES SEQUENCE CHART

OPERATION STEP	SOFTENER FUNCTION MODE	VALVE POSITION								
		C1-025	F01-027	C1-026	F01-029	C1-028	F01-030	C1-029	F01-031	
6	NORMAL SERVICE								0°	VALVE POSITION
	BACKWASH (PRIMARY)								0°	
REF	BACKWASH (SECONDARY)								0°	
2	REGENERATION (BRINE INTRO)								90°	
3	BRINE DISPLACEMENT (PRIM'Y)								90°/ 90°	
4	RINSE (PRIMARY)								0°/ 90°	
5	RINSE (SECONDARY)								0°	

 INDICATION VALVE IN OPEN POSITION

 INDICATION VALVE IN CLOSED POSITION



NOTES:

- | | |
|--|--|
| 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. |
| 2. THE LETTERS 'A' & 'O' ARE NOT USED IN THE EQUIPMENT NUMBERING SYSTEM. | 5. PSV'S FOR SOFTENING PACKAGE UNITS TO BE T2103BH TRIP TO T2103K TO BE TAGGED 12126, 12126C,.....1212K FOR PRIMARY SOFTENER A & 1213B, 1213C,.....1213K FOR SECONDARY SOFTENER. |
| 3. FOR STANDARD P&ID LEGEND SEE THE FOLLOWING DRAWINGS:
- FOR PIPING & EQUIPMENT: DWG. NO. CP-0500N-PF-002
- FOR INSTRUMENTATION: DWG. NO. CP-0500N-PF-003 | |

6. THE PDI ON ZF.1203A HAS BEEN DEMOLISHED
7. THE N4 ON ZF.1203A IS BLINDED ONLY
8. THE FIT.1230 # ON ZF.1203 A HAS BEEN DEMOLISHED

9. PSV SIZE:
SOFTENER: # 1203 F (PRIMARY: 1 1/2"x1 1/2"), (SECONDARY: 1 1/2"x1 1/2")

10. LINE NO. WW-541-8"-B1 TO BE USE FOR WATER SOFTENER ZF.1203 P, Q & R

INTERLOCK NOTES:

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

[illegible]

REFERENCE DRAWINGS

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.	

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

ITC NO.	21/0E-PMF/RP/2011 21/0E-PMF/2011
SCALE : NTS	
SIZE :	
DRAWING NO.	CR 607

CP-603GS-EF-005-18

CAD

DRAWN WITH CAD
NEVER CHANGE THIS
DRAWING BY HAND