

### 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

[illegible]

The diagram illustrates the 6030S brine line process, which involves the treatment and transport of brine. The process begins with water softeners (ZF 1203S, ZF 1203H, ZF 1203K, ZF 1203P, ZF 1203Q, ZF 1203R) and oil removal filters (ZF 1201B, ZF 1201C, ZF 1201D, ZF 1201E, ZF 1201F, ZF 1201G, ZF 1201H, ZF 1201I, ZF 1201J, ZF 1201K, ZF 1201L, ZF 1201M, ZF 1201N, ZF 1201O, ZF 1201P, ZF 1201Q, ZF 1201R, ZF 1201S, ZF 1201T, ZF 1201U, ZF 1201V, ZF 1201W, ZF 1201X, ZF 1201Y, ZF 1201Z, ZF 1202A, ZF 1202B, ZF 1202C, ZF 1202D, ZF 1202E, ZF 1202F, ZF 1202G, ZF 1202H, ZF 1202I, ZF 1202J, ZF 1202K, ZF 1202L, ZF 1202M, ZF 1202N, ZF 1202O, ZF 1202P, ZF 1202Q, ZF 1202R, ZF 1202S, ZF 1202T, ZF 1202U, ZF 1202V, ZF 1202W, ZF 1202X, ZF 1202Y, ZF 1202Z, ZF 1203A, ZF 1203B, ZF 1203C, ZF 1203D, ZF 1203E, ZF 1203F, ZF 1203G, ZF 1203H, ZF 1203I, ZF 1203J, ZF 1203K, ZF 1203L, ZF 1203M, ZF 1203N, ZF 1203O, ZF 1203P, ZF 1203Q, ZF 1203R, ZF 1203S, ZF 1203T, ZF 1203U, ZF 1203V, ZF 1203W, ZF 1203X, ZF 1203Y, ZF 1203Z, ZF 1204A, ZF 1204B, ZF 1204C, ZF 1204D, ZF 1204E, ZF 1204F, ZF 1204G, ZF 1204H, ZF 1204I, ZF 1204J, ZF 1204K, ZF 1204L, ZF 1204M, ZF 1204N, ZF 1204O, ZF 1204P, ZF 1204Q, ZF 1204R, ZF 1204S, ZF 1204T, ZF 1204U, ZF 1204V, ZF 1204W, ZF 1204X, ZF 1204Y, ZF 1204Z, ZF 1205A, ZF 1205B, ZF 1205C, ZF 1205D, ZF 1205E, ZF 1205F, ZF 1205G, ZF 1205H, ZF 1205I, ZF 1205J, ZF 1205K, ZF 1205L, ZF 1205M, ZF 1205N, ZF 1205O, ZF 1205P, ZF 1205Q, ZF 1205R, ZF 1205S, ZF 1205T, ZF 1205U, ZF 1205V, ZF 1205W, ZF 1205X, ZF 1205Y, ZF 1205Z, ZF 1206A, ZF 1206B, ZF 1206C, ZF 1206D, ZF 1206E, ZF 1206F, ZF 1206G, ZF 1206H, ZF 1206I, ZF 1206J, ZF 1206K, ZF 1206L, ZF 1206M, ZF 1206N, ZF 1206O, ZF 1206P, ZF 1206Q, ZF 1206R, ZF 1206S, ZF 1206T, ZF 1206U, ZF 1206V, ZF 1206W, ZF 1206X, ZF 1206Y, ZF 1206Z, ZF 1207A, ZF 1207B, ZF 1207C, ZF 1207D, ZF 1207E, ZF 1207F, ZF 1207G, ZF 1207H, ZF 1207I, ZF 1207J, ZF 1207K, ZF 1207L, ZF 1207M, ZF 1207N, ZF 1207O, ZF 1207P, ZF 1207Q, ZF 1207R, ZF 1207S, ZF 1207T, ZF 1207U, ZF 1207V, ZF 1207W, ZF 1207X, ZF 1207Y, ZF 1207Z, ZF 1208A, ZF 1208B, ZF 1208C, ZF 1208D, ZF 1208E, ZF 1208F, ZF 1208G, ZF 1208H, ZF 1208I, ZF 1208J, ZF 1208K, ZF 1208L, ZF 1208M, ZF 1208N, ZF 1208O, ZF 1208P, ZF 1208Q, ZF 1208R, ZF 1208S, ZF 1208T, ZF 1208U, ZF 1208V, ZF 1208W, ZF 1208X, ZF 1208Y, ZF 1208Z, ZF 1209A, ZF 1209B, ZF 1209C, ZF 1209D, ZF 1209E, ZF 1209F, ZF 1209G, ZF 1209H, ZF 1209I, ZF 1209J, ZF 1209K, ZF 1209L, ZF 1209M, ZF 1209N, ZF 1209O, ZF 1209P, ZF 1209Q, ZF 1209R, ZF 1209S, ZF 1209T, ZF 1209U, ZF 1209V, ZF 1209W, ZF 1209X, ZF 1209Y, ZF 1209Z, ZF 1210A, ZF 1210B, ZF 1210C, ZF 1210D, ZF 1210E, ZF 1210F, ZF 1210G, ZF 1210H, ZF 1210I, ZF 1210J, ZF 1210K, ZF 1210L, ZF 1210M, ZF 1210N, ZF 1210O, ZF 1210P, ZF 1210Q, ZF 1210R, ZF 1210S, ZF 1210T, ZF 1210U, ZF 1210V, ZF 1210W, ZF 1210X, ZF 1210Y, ZF 1210Z, ZF 1211A, ZF 1211B, ZF 1211C, ZF 1211D, ZF 1211E, ZF 1211F, ZF 1211G, ZF 1211H, ZF 1211I, ZF 1211J, ZF 1211K, ZF 1211L, ZF 1211M, ZF 1211N, ZF 1211O, ZF 1211P, ZF 1211Q, ZF 1211R, ZF 1211S, ZF 1211T, ZF 1211U, ZF 1211V, ZF 1211W, ZF 1211X, ZF 1211Y, ZF 1211Z, ZF 1212A, ZF 1212B, ZF 1212C, ZF 1212D, ZF 1212E, ZF 1212F, ZF 1212G, ZF 1212H, ZF 1212I, ZF 1212J, ZF 1212K, ZF 1212L, ZF 1212M, ZF 1212N, ZF 1212O, ZF 1212P, ZF 1212Q, ZF 1212R, ZF 1212S, ZF 1212T, ZF 1212U, ZF 1212V, ZF 1212W, ZF 1212X, ZF 1212Y, ZF 1212Z, ZF 1213A, ZF 1213B, ZF 1213C, ZF 1213D, ZF 1213E, ZF 1213F, ZF 1213G, ZF 1213H, ZF 1213I, ZF 1213J, ZF 1213K, ZF 1213L, ZF 1213M, ZF 1213N, ZF 1213O, ZF 1213P, ZF 1213Q, ZF 1213R, ZF 1213S, ZF 1213T, ZF 1213U, ZF 1213V, ZF 1213W, ZF 1213X, ZF 1213Y, ZF 1213Z, ZF 1214A, ZF 1214B, ZF 1214C, ZF 1214D, ZF 1214E, ZF 1214F, ZF 1214G, ZF 1214H, ZF 1214I, ZF 1214J, ZF 1214K, ZF 1214L, ZF 1214M, ZF 1214N, ZF 1214O, ZF 1214P, ZF 1214Q, ZF 1214R, ZF 1214S, ZF 1214T, ZF 1214U, ZF 1214V, ZF 1214W, ZF 1214X, ZF 1214Y, ZF 1214Z, ZF 1215A, ZF 1215B, ZF 1215C, ZF 1215D, ZF 1215E, ZF 1215F, ZF 1215G, ZF 1215H, ZF 1215I, ZF 1215J, ZF 1215K, ZF 1215L, ZF 1215M, ZF 1215N, ZF 1215O, ZF 1215P, ZF 1215Q, ZF 1215R, ZF 1215S, ZF 1215T, ZF 1215U, ZF 1215V, ZF 1215W, ZF 1215X, ZF 1215Y, ZF 1215Z, ZF 1216A, ZF 1216B, ZF 1216C, ZF 1216D, ZF 1216E, ZF 1216F, ZF 1216G, ZF 1216H, ZF 1216I, ZF 1216J, ZF 1216K, ZF 1216L, ZF 1216M, ZF 1216N, ZF 1216O, ZF 1216P, ZF 1216Q, ZF 1216R, ZF 1216S, ZF 1216T, ZF 1216U, ZF 1216V, ZF 1216W, ZF 1216X, ZF 1216Y, ZF 1216Z, ZF 1217A, ZF 1217B, ZF 1217C, ZF 1217D, ZF 1217E, ZF 1217F, ZF 1217G, ZF 1217H, ZF 1217I, ZF 1217J, ZF 1217K, ZF 1217L, ZF 1217M, ZF 1217N, ZF 1217O, ZF 1217P, ZF 1217Q, ZF 1217R, ZF 1217S, ZF 1217T, ZF 1217U, ZF 1217V, ZF 1217W, ZF 1217X, ZF 1217Y

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 PDI ON ZF-1203A HAS BEEN DEMOLISHED
2. THE LETTERS 'I' & 'O' ARE NOT USED IN THE EQUIPMENT NUMBERING SYSTEM.	5. PSV'S FOR SOFTENING PACKAGE UNITS ZF-1203B THRU ZF-1203JK TO BE TAGGED 1212B, 1212C,.....1212K FOR PRIMARY SOFTENER A & 1213B, 1213C,.....1213K FOR SECONDARY SOFTENER.	7. THE N4 ON ZF-1203A IS BUNDED ONLY
3. FOR STANDARD PAID LEGEND SEE THE FOLLOWING DRAWINGS: - FOR PIPING & EQUIPMENT : DWS NO. CH-0505N-FI-002 - FOR INSTRUMENTATION : DWS NO. CP-0505N-FI-003		8. THE FIT.1230 # ON ZF-1203A HAS BEEN DEMOLISHED

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

[illegible]

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED, VERIFY THE LATEST VERSION AT THE  
PSI SHAREPOINT OR DOCUMENTUM PINTAR. ANY OR ALL MODIFICATIONS TO THIS  
DOCUMENT SHALL FOLLOW APPROVED MOC OR DOCUMENT MANAGEMENT PROCESSES  
COPYRIGHT PERTAMINA HULU OKAN.

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.	

CP-603GS-EF-005-18

CAD

NEVER CHANGE THE  
DRAWING BY HAND