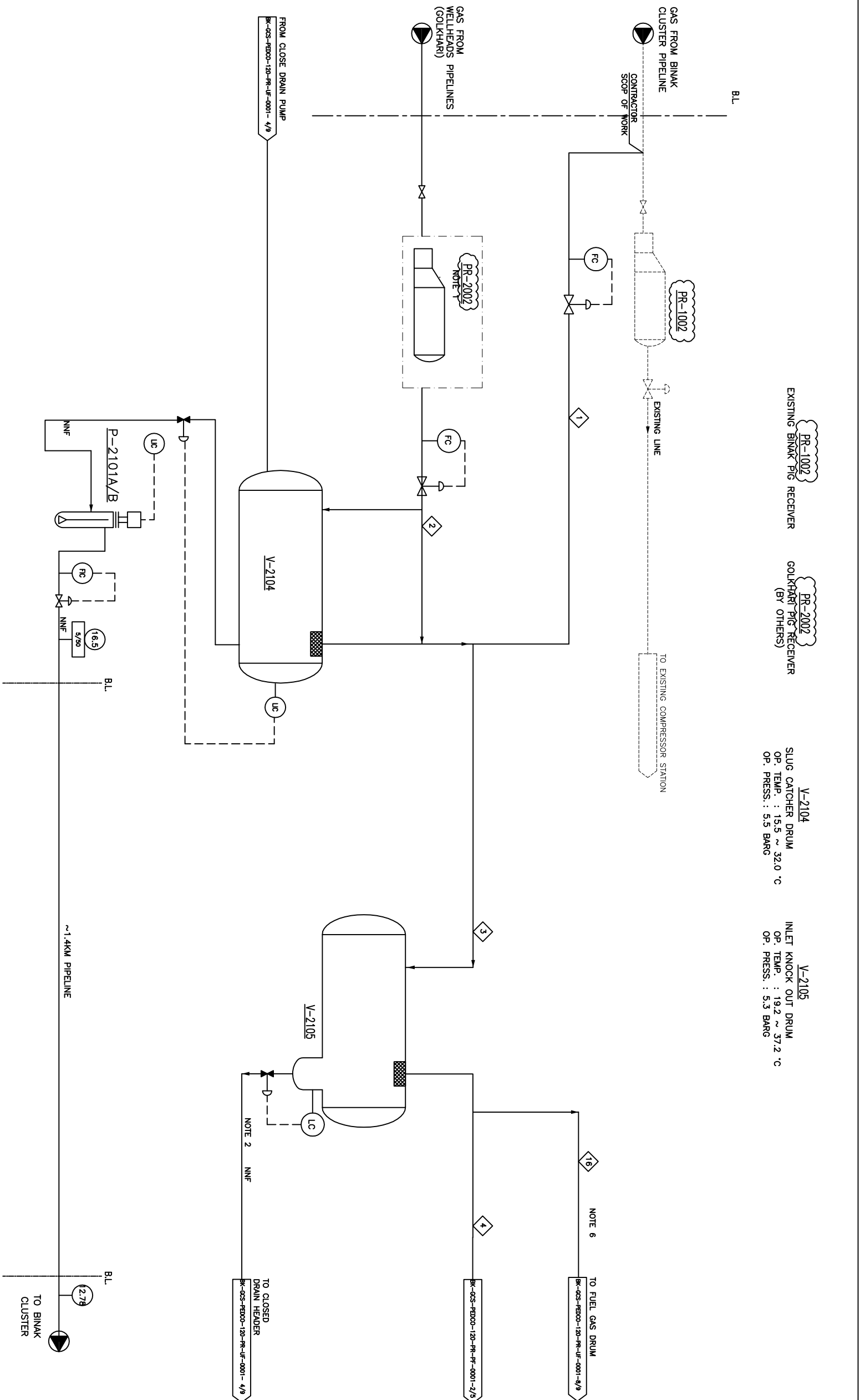


[illegible]

NOTES	
1. GAS PIG RECEIVERS ARE IN SCOPE OF PIPELINE EPC CONTRACTOR. 2. IN SOME CASES, IT IS POSSIBLE TO ACCUMULATE SOME LIQUID IN INLET LINES. THE MAX. FLOW RATE IS 180 BARREL PER DAY. 3. IN CASE OF PIGGING, 29800 kg/h WILL BE FLOWED TO FLARE. 4. MAX. FLOW RATE IN PIGGING CASE WILL BE 333600 kg/h. 5. DELETED. 6. GAS CONSUMPTION WILL BE FINALIZED AFTER RECEIVED DATA FROM DEHYDRATION PACKAGE VENDOR.	
LEGEND	
 LIQUID FLOW RATE, kg/hr	 LIQUID FLOW RATE, kg/hr
 GAS FLOW RATE, sm ³ /h	
 PRESSURE, barg	
 TEMPERATURE, °C	
 STREAM NUMBER	
 MASS FLOW RATE, kg/hr	
REFERENCE DRAWING Symbol & Legend For PFD and P&ID Process Basis Of Design	DESG. No. HC-000AL-PR000-000-PR-PI-0001 HC-000AL-PR000-000-PR-PI-0001

STREAM NUMBER																	WINTER CASE																NOTES
Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																	
Vapour Fraction	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0																	
Temperature [C]	26.7	15.5	19.2	19.0	19.0	18.9	113.1	60.0	59.9	149.5	60.0	60.0	59.9	59.4	57.7	19.0																	
Pressure [bar_g]	5.5	5.5	5.3	5.1	5.1	4.9	19.0	18.3	18.1	54.8	54.1	54.1	53.9	52.9	49.6	5.1																	
Molar Flow [MMSCFD]	5.000	9.600	14.601	14.600	7.065	7.065	7.065	7.065	7.065	7.065	7.065	14.129	14.129	14.068	14.068	0.471																	
Mass Flow [kg/h]	5071	10606	15677	15677	7585	7585	7585	7585	7585	7585	7585	15171	15171	15105	15105	506																	
Heat Flow [kW]	-5768	-11394	-17162	-17161	-8304	-8304	-7921	-8163	-8163	-7921	-8248	-16496	-16496	-16325	-16325	-554																	
Molar component fraction																																	
Comp Mole Frac (H2O)	0.005433	0.002741	0.003663	0.003638	0.003638	0.003638	0.003638	0.003638	0.003638	0.003638	0.003638	0.000230	0.000230	0.000230	0.000230	0.003638																	
Comp Mole Frac (CO2)	0.016716	0.029622	0.025202	0.025202	0.025202	0.025202	0.025202	0.025202	0.025202	0.025202	0.025202	0.025202	0.025202	0.025261	0.025261	0.025202																	
Comp Mole Frac (H2S)	0.018675	0.061836	0.047054	0.047056	0.047056	0.047056	0.047056	0.047056	0.047056	0.047056	0.047056	0.046603	0.046603	0.046603	0.046603	0.047056																	
Comp Mole Frac (Methane)	0.783733	0.716902	0.739790	0.739809	0.739809	0.739809	0.739809	0.739809	0.739809	0.739809	0.739809	0.739809	0.739809	0.742925	0.742925	0.739809																	
Comp Mole Frac (Ethane)	0.118553	0.112203	0.114247	0.114249	0.114249	0.114249	0.114249	0.114249	0.114249	0.114249	0.114249	0.114249	0.114249	0.114718	0.114718	0.114249																	
Comp Mole Frac (Propane)	0.042190	0.050067	0.047370	0.047371	0.047371	0.047371	0.047371	0.047371	0.047371	0.047371	0.047371	0.047371	0.047371	0.047542	0.047542	0.047371																	
Comp Mole Frac (i-Butane)	0.003278	0.004289	0.003942	0.003942	0.003942	0.003942	0.003942	0.003942	0.003942	0.003942	0.003942	0.003942	0.003942	0.003941	0.003941	0.003942																	
Comp Mole Frac (n-Butane)	0.007078	0.008677	0.008129	0.008130	0.008130	0.008130	0.008130	0.008130	0.008130	0.008130	0.008130	0.008130	0.008130	0.008157	0.008157	0.008130																	
Comp Mole Frac (i-Pentane)	0.001292	0.003389	0.003066	0.003066	0.003066	0.003066	0.003066	0.003066	0.003066	0.003066	0.003066	0.003066	0.003066	0.003056	0.003056	0.003066																	
Comp Mole Frac (n-Pentane)	0.000786	0.001795	0.001450	0.001450	0.001450	0.001450	0.001450	0.001450	0.001450	0.001450	0.001450	0.001450	0.001450	0.001453	0.001453	0.001450																	
Comp Mole Frac (n-Hexane)	0.000941	0.002892	0.002224	0.002224	0.002224	0.002224	0.002224	0.002224	0.002224	0.002224	0.002224	0.002224	0.002224	0.002234	0.002234	0.002224																	
Comp Mole Frac (n-Heptane)	0.000243	0.000698	0.000542	0.000542	0.000542	0.000542	0.000542	0.000542	0.000542	0.000542	0.000542	0.000542	0.000542	0.000545	0.000545	0.000542																	
Comp Mole Frac (n-Octane)	0.000053	0.000199	0.000149	0.000149	0.000149	0.000149	0.000149	0.000149	0.000149	0.000149	0.000149	0.000149	0.000149	0.000150	0.000150	0.000149																	
Comp Mole Frac (n-Nonane)	0.000016	0.000100	0.000071	0.000071	0.000071	0.000071	0.000071	0.000071	0.000071	0.000071	0.000071	0.000071	0.000071	0.000071	0.000071	0.000071																	
Comp Mole Frac (n-Decane)	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000																	
Comp Mole Frac (n-C11)	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000																	
Comp Mole Frac (Nitrogen)	0.001013	0.004189	0.003101	0.003101	0.003101	0.003101	0.003101	0.003101	0.003101	0.003101	0.003101	0.003101	0.003101	0.003115	0.003115	0.003101																	
Vapour Phase Property																																	
Phase - Molar Flow	[kgmole/h]	249.1	478.2	727.1	727.2	351.9	351.9	351.9	351.9	351.9	351.9	703.7	703.7	700.7	700.7	23.5																	
Phase - Mass Flow	[kg/h]	5071	10606	15676	15677	7585	7585	7585	7585	7585	7585	15171	15171	15105	15105	506																	
Phase - Heat Flow	[kW]	-5768	-11394	-17157	-17161	-8304	-7921	-8163	-8163	-7921	-8248	-16496	-16496	-16325	-16325	-554																	
Phase Mass Heat Capacity	[kJ/kg-C]	2.04	1.89	1.94	1.94	1.94	2.25	2.12	2.12	2.46	2.38	2.38	2.38	2.37	2.35	1.94																	
Phase Actual Gas Flow	[ACT_m3/h]	932.3	1713.2	2730.6	2820.2	1364.6	547.7	479.8	484.9	210.0	153.5	307.0	308.1	312.6	333.5	91.0																	
Phase Std Gas Flow	[MMSCFD]	4.991	9.582	14.572	14.573	7.051	7.051	7.051	7.051	7.051	7.051	14.103	14.103	14.042	14.042	0.47																	
Phase Molecular Weight		20.36	22.18	21.56	21.56	21.56	21.56	21.56	21.56	21.56	21.56	21.56	21.56	21.56	21.56	21.56																	
Phase Mass Density	[kg/m3]	5.44	6.19	5.74	5.56	5.56	5.38	13.85	15.81	36.11	49.41	49.41	49.23	48.32	45.29	5.56																	
Phase Viscosity	[cP]	0.011	0.011	0.011	0.011	0.011	0.014	0.013	0.013	0.016	0.014	0.014	0.014	0.014	0.014	0.01																	
Phase Cp/Cv		1.28	1.28	1.28	1.28	1.28	1.25	1.30	1.30	1.43	1.43	1.43	1.43	1.430	1.420	1.28																	
Phase Thermal Conductivity	[W/m-K]	0.031	0.028	0.029	0.029	0.029	0.042	0.035	0.035	0.050	0.039	0.039	0.039	0.038	0.038	0.03																	
Phase Z Factor		0.978	0.972	0.975	0.976	0.976	0.970	0.951	0.951	0.948	0.868	0.868	0.868	0.870	0.875	0.98																	
Liquid Phase Property																																	
Phase - Molar Flow	[kgmole/h]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
Phase - Mass Flow	[kg/h]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
Phase - Heat Flow	[kW]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
Phase Mass Heat Capacity	[kJ/kg-C]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
Phase Actual Volume Flow	[m3/h]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
Phase - Liq Vol Flow@Std Cond	[m3/h]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
Phase Molecular Weight		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
Phase Mass Density	[kg/m3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
Phase Viscosity	[cP]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
Phase Thermal Conductivity	[W/m-K]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
Surface Tension	[dyne/cm]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
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