

8037.P.1520A, B & C
PRIMARY CYCLONE
FEED PUMPS

CAPACITY : 7000 BPD PER PUMP
SUCTION : 15 PSIG
DISCHARGE : 38 PSIG
POWER : 15 HP

VENDOR SUPPLIED DATA

8037.V.1522A & B
TERTIARY DESANDER CYCLONES

CAPACITY : 4044 BPD PER CYCLONE
INLET : 35 PSIG
OUTLET : 20 PSIG
DESIGN PRES/TEMP : 100 PSIG/220°F
VESSEL INTERNAL DIA. : # FT
VESSEL LENGTH S/S : # FT
MOP : # PSIG
CYCLONES : #
SIZE OF CYCLONES : #
LINER MATERIAL : 98 % ALUMINA CERAMICS

8037.V.1520A & B
PRIMARY CYCLONES

CAPACITY : 7000 BPD PER CYCLONE
INLET : 35 PSIG
OUTLET : 25 PSIG
DESIGN PRES/TEMP : 100 PSIG/220°F
VESSEL INTERNAL DIA. : # FT
VESSEL LENGTH S/S : # FT
MOP : # PSIG
CYCLONES : #
SIZE OF CYCLONES : #
LINER MATERIAL : SILICON CARBIDE

8037.W.1520A & B
SPIRAL CLASSIFIERS

CAPACITY : #
MODEL : #
DRIBBLET SIZE : # MICRONS
POWER : 5 HP

8037.W.1521A & B
CONVEYOR

CAPACITY : 90 M3/D
POWER : 3 HP

8037.T.1520
SECONDARY DESANDER
FEED PUMP SURGE TANK

CAPACITY : 510 GALLON
INLET : # PSIG
OUTLET : # PSIG
VESSEL INTERNAL DIA. : 36 INCH
VESSEL LENGTH S/S : 90 FT - 10 7/8 INCH
OPER TEMP : 185° F
DESIGN TEMP : 220° F

8037.T.1522
CLASSIFIER SUMP TANK

CAPACITY : # PSIG
INLET : # PSIG
OUTLET : # PSIG
VESSEL INTERNAL DIA. : 6 FT - 2 INCH
VESSEL LENGTH S/S : # FT
OPER TEMP : 185° F
DESIGN TEMP : 220° F

8037.P.1521A, B & C
SECONDARY DESANDER
FEED PUMPS

CAPACITY : 5451 BPD PER PUMP
SUCTION : 4 PSIG
DISCHARGE : 36 PSIG
POWER : 15 HP

8037.V.1521A & B
SECONDARY CYCLONES

CAPACITY : 5451 BPD PER CYCLONE
INLET : 35 PSIG
OUTLET : 20 PSIG
DESIGN PRES/TEMP : 100 PSIG /220° F
VESSEL INTERNAL DIA. : # FT
VESSEL LENGTH S/S : # FT
MOP : # PSIG
CYCLONES : #
SIZE OF CYCLONES : #
LINER MATERIAL : 98 % ALUMINA CERAMICS

8037.P.1524A & B
SKIMMER PUMPS

CAPACITY : 100 BPD PER PUMP
SUCTION : 1 PSIG
DISCHARGE : 32 PSIG
POWER : 2 HP

8037.P.1522A & B
CLASSIFIER SUMP PUMPS

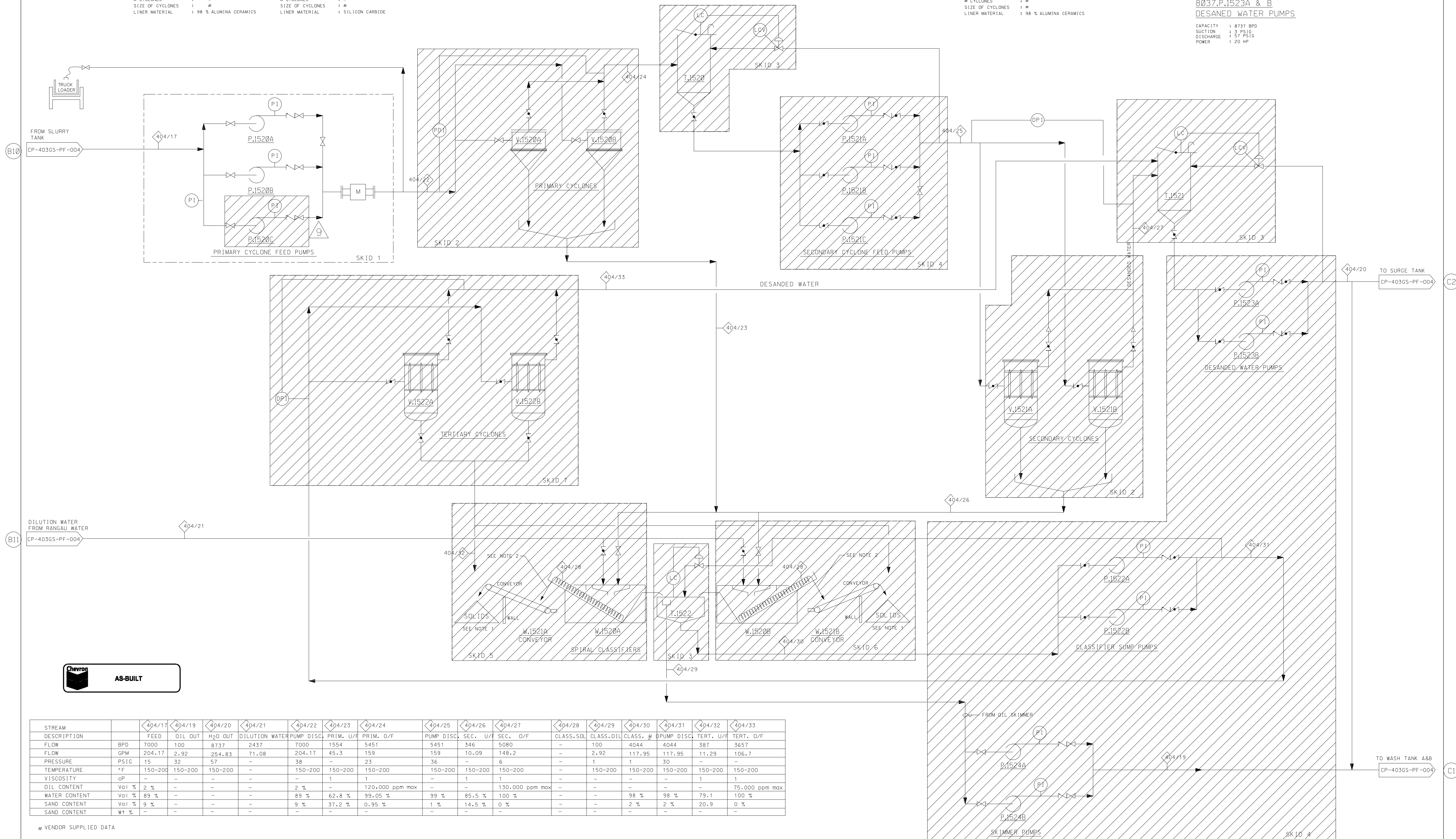
CAPACITY : 4044 BPD PER PUMP
SUCTION : 1 PSIG
DISCHARGE : 30 PSIG
POWER : 15 HP

8037.T.1521
DESANDER WATER PUMP
SURGE TANK

CAPACITY : 783 GALLON
INLET : # PSIG
OUTLET : # PSIG
VESSEL INTERNAL DIA. : 44 INCH
VESSEL LENGTH S/S : 10 FT - 1 7/8 INCH
OPER TEMP : 185° F
DESIGN TEMP : 220° F

8037.P.1523A & B
DESANDER WATER PUMPS

CAPACITY : 8737 BPD
SUCTION : 3 PSIG
DISCHARGE : 51 PSIG
POWER : 20 HP



STREAM		404/17	404/19	404/20	404/21	404/22	404/23	404/24	404/25	404/26	404/27	404/28	404/29	404/30	404/31	404/32	404/33
DESCRIPTION		FEED	OIL OUT	H ₂ O OUT	DILUTION WATER	PUMP DISC.	PRIM. U/F	PRIM. O/F	PUMP DISC.	SEC. U/F	SEC. O/F	CLASS. SOL.	CLASS. OIL	CLASS. H ₂ O	PUMP DISC.	TERT. U/F	TERT. O/F
FLOW	BPD	7000	100	8737	2437	7000	1554	5451	5451	346	5080	100	4044	4044	367	3657	
FLOW	GPM	204.17	2.92	254.83	71.08	204.17	45.3	159	159	10.09	148.2	—	2.92	117.95	117.95	11.29	106.7
PRESSURE	PSIG	15	32	57	—	38	—	23	36	—	6	—	1	30	—	—	—
TEMPERATURE	°F	150-200	150-200	150-200	—	150-200	150-200	150-200	150-200	150-200	150-200	—	150-200	150-200	150-200	150-200	150-200
VISCOSITY	cP	—	—	—	—	—	1	1	—	1	1	—	—	—	1	1	—
OIL CONTENT	Vol %	2 %	—	—	—	2 %	—	120,000 ppm max	—	—	130,000 ppm max	—	—	—	—	—	75,000 ppm max
WATER CONTENT	Vol %	89 %	—	—	—	89 %	62.8 %	99.05 %	99 %	85.5 %	100 %	—	98 %	98 %	79.1	100 %	—
SAND CONTENT	Vol %	9 %	—	—	—	9 %	37.2 %	0.95 %	1 %	14.5 %	0 %	—	—	2 %	2 %	20.9	0 %
SAND CONTENT	Wt %	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

VENDOR SUPPLIED DATA

NOTES: 1. THERE IS ONLY ONE SOLIDS PILE, BUT TWO ARE SHOWN FOR CLARITY. 2. CONVEYOR SYSTEM TO BE INCORPORATED TO MEET THE MINIMUM DISTANCE & HEIGHT OF SOLIDS DISCHARGE POINT. 3. ALL INSTRUMENTATION/EQUIPMENT NUMBER HAVE PREFIX: 8047 FOR AREA-4, 8037 FOR AREA-3, 8017 FOR AREA-1. 4. ALL DRAWING FOR AREAS 1 & 3 WILL BE THE SAME AS AREA 4 EXCEPT THE PREFIX WILL BE 401GS & 4063GS FOR AREAS 1 & 3 RESPECTIVELY. 5. ANY TYPICAL DRAWING WILL USE DRAWING NUMBER OF CGS-4 AS REFERENCE. 6. INACTIVE

9	AS-BUILT (PSI VAV AS PER MOC #481540)	DNR	AM			12/12/18											
8	AS BUILT FOR PSM-PSM REMEDIATION PROJECT JOB NO. #2445	11/12/18	ADR	RGS	MWS	12/12/18											
7	UP-DATE TO AS-BUILT (XDR #4502)	25-05-16	02-05-17	02-05-17	02-05-17												
6	AS BUILT	06-03-08															
5	ISSUED FOR CONSTRUCTION	18/12/06	21/02/07	21/02/07	21/02/07												
4	ISSUED FOR APPROVAL																
3	VERIFIED BY ENERCON, ISSUED FOR REVIEW																
REV.	DESCRIPTION	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE



DRAWN : DRO
CHECKED : ADR
ENG'R. : DAW
APP'D :
COMPANY :

DRAWING TITLE
PROCESS FLOW DIAGRAM
SANDPLANT
CENTRAL GATHERING STATION
DURI AREA-3

PROJECT NO. 9148-004
SCALE N.T.S.
DRAWING NO. CP-403GS-PF-006-9
DRAWING NO. DURI-01PF03GS000-PRO-PFD-IBU-0012-00

CAD
DRAWN WITH CAD
NEVER CHANGE THIS
DRAWING BY HAND.