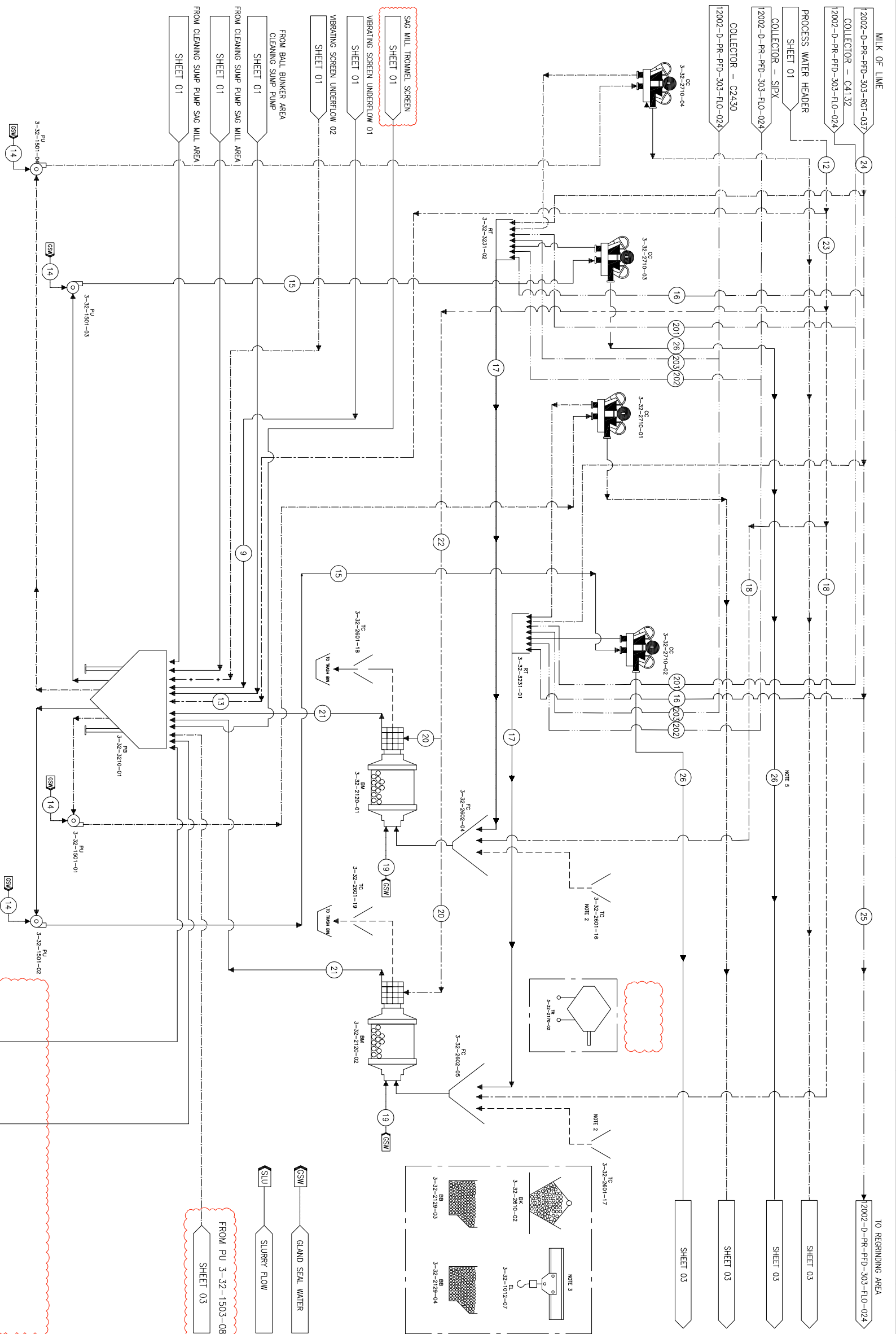
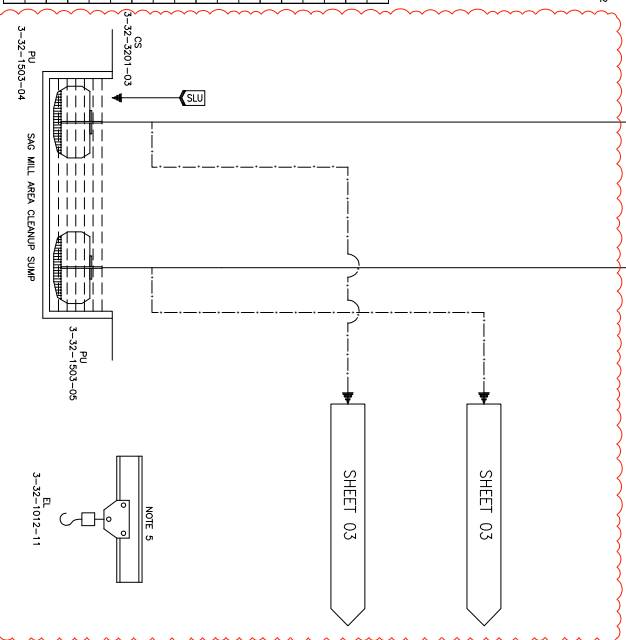




NOMINAL FLOW 2340 DIPH 0.44 Cu																
Stream no	9	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Solids	dmt/h	2347.02	0.00	0.00	0.00	4664.74	0.702	3521.23	0.00	0.00	3521.23	0.00	0.00	7.02	5.62	1173.51
Solid	%	58.81	0.00	0.00	0.00	55.00	70.65	70.65	0.00	0.00	64.54	0.00	0.00	15.00	15.00	38.00
Water flowrate	m ³ /h	1643.88	3055.32	2151.02	9.00	3841.15	3.98	1462.55	392.15	60.00	1394.70	120.00	900.30	39.78	31.82	2382.58
Slurry flowrate	m ³ /h	2482.10	3055.32	2151.02	9.00	5517.84	4.27	2720.33	392.15	20.00	60.00	2191.28	120.00	904.30	42.71	34.16
Slurry/bulk	t/h	3990.90	3055.32	2151.02	9.00	8353.89	4.68	4898.78	392.15	20.00	60.00	5455.93	120.00	904.30	46.80	37.44
Slurry Density	t/m ³	1.61	1.00	1.00	1.00	1.35	1.10	1.83	1.00	1.00	1.00	1.71	1.00	1.10	1.10	1.27
Cu Grade	%	0.44	-	-	-	0.44	-	0.44	-	-	0.44	-	-	2.40	2.40	0.44
Cu Mass	%	10.30	-	-	-	20.59	-	15.44	-	-	15.44	-	-	-	-	5.15
Cu Distribution	%	100.00	-	-	-	200.00	-	150.00	-	-	150.00	-	-	-	-	50.00
DESIGN FLOW 2720 DIPH 0.44 Cu																
Stream no	9	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Solids	dmt/h	2708.10	0.00	0.00	0.00	5417.00	0.861	4062.95	0.00	0.00	4062.95	0.00	0.00	8.10	6.48	1354.088
Solid	%	59.20	0.00	0.00	0.00	55.00	70.65	70.65	0.00	0.00	64.67	0.00	0.00	15.00	15.00	38.00
Water flowrate	m ³ /h	1868.02	3365.06	2540.10	9.00	4432.09	4.59	1687.55	452.48	20.00	60.00	2220.03	120.00	1024.96	45.90	36.72
Slurry flowrate	m ³ /h	2833.19	3365.06	2540.10	9.00	6366.73	4.93	3138.61	452.48	20.00	60.00	3671.09	120.00	1024.96	49.28	39.42
Slurry/bulk	t/h	4574.11	3365.06	2540.10	9.00	9849.09	5.40	5750.51	452.48	20.00	60.00	6282.99	120.00	1024.96	54.00	43.20
Slurry Density	t/m ³	1.61	1.00	1.00	1.00	1.55	1.10	1.83	1.00	1.00	1.00	1.71	1.00	1.10	1.10	1.27
Solid Density	t/m ³	2.80	-	-	-	2.80	2.40	2.80	-	-	2.80	-	-	2.40	2.40	2.80
Cu Grade	%	0.44	-	-	-	0.44	-	0.44	-	-	0.44	-	-	-	-	0.44
Cu Mass	%	11.88	-	-	-	23.76	-	17.82	-	-	17.82	-	-	-	-	5.94
Cu Distribution	%	100.00	-	-	-	200.00	-	150.00	-	-	150.00	-	-	-	-	50.00

NOMINAL CAPACITY (2340 DIMPY)						
STREAM NO.		201	202	203		
REAGENT TYPE		CA132	SP1X	CA340		
CONCENTRATION	w/w %	100.00	10.00	100.00		
S.G		1.00	1.20	1.00		
MINIMUM DOSAGE	g/t	2.00	1.75	1.75		
DOSAGE FLOW RATE (MIN.)	ml/min	78.00	68.25	56.85		
DESIGN DOSAGE	g/t	4.00	4.00	4.40		
DOSAGE FLOW RATE (MAX.)	ml/min	156.00	171.60	143.00		
DESIGN CAPACITY (2700 DIMPY)						
STREAM NO.		201	202	203		
REAGENT TYPE		CA132	SP1X	CA340		
CONCENTRATION	w/w %	100.00	10.00	100.00		
S.G		1.00	1.20	1.20		
MINIMUM DOSAGE	g/t	2.00	1.75	1.75		
DOSAGE FLOW RATE (MIN.)	ml/min	90.00	78.75	65.63		
DOSAGE	g/t	4.00	4.40	4.40		
DOSAGE FLOW RATE (MAX.)	ml/min	180.00	168.00	165.00		



REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	AUTHORIZED
04	2026-02-25	ISSUED FOR APPROVAL				
03	2025-10-14	ISSUED FOR APPROVAL				
02	2024-01-22	ISSUED FOR FINAL				
01	2023-12-24	ISSUED FOR APPROVAL				
00	2023-10-29	ISSUED FOR REVIEW				

Consultant:

Project:

Title:

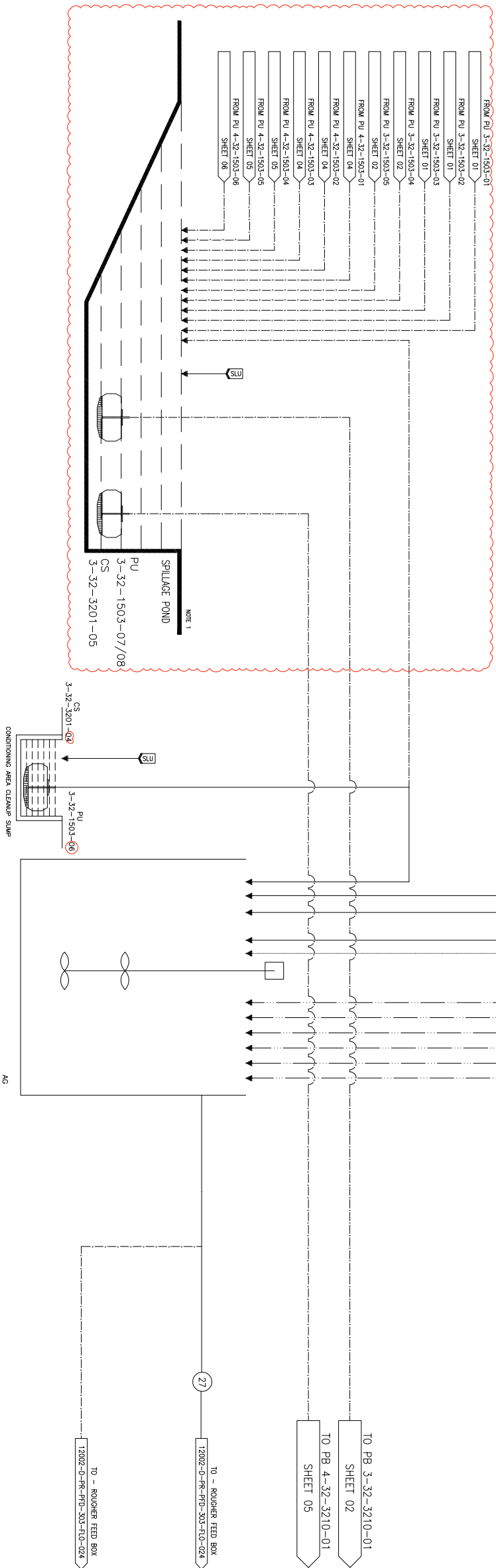
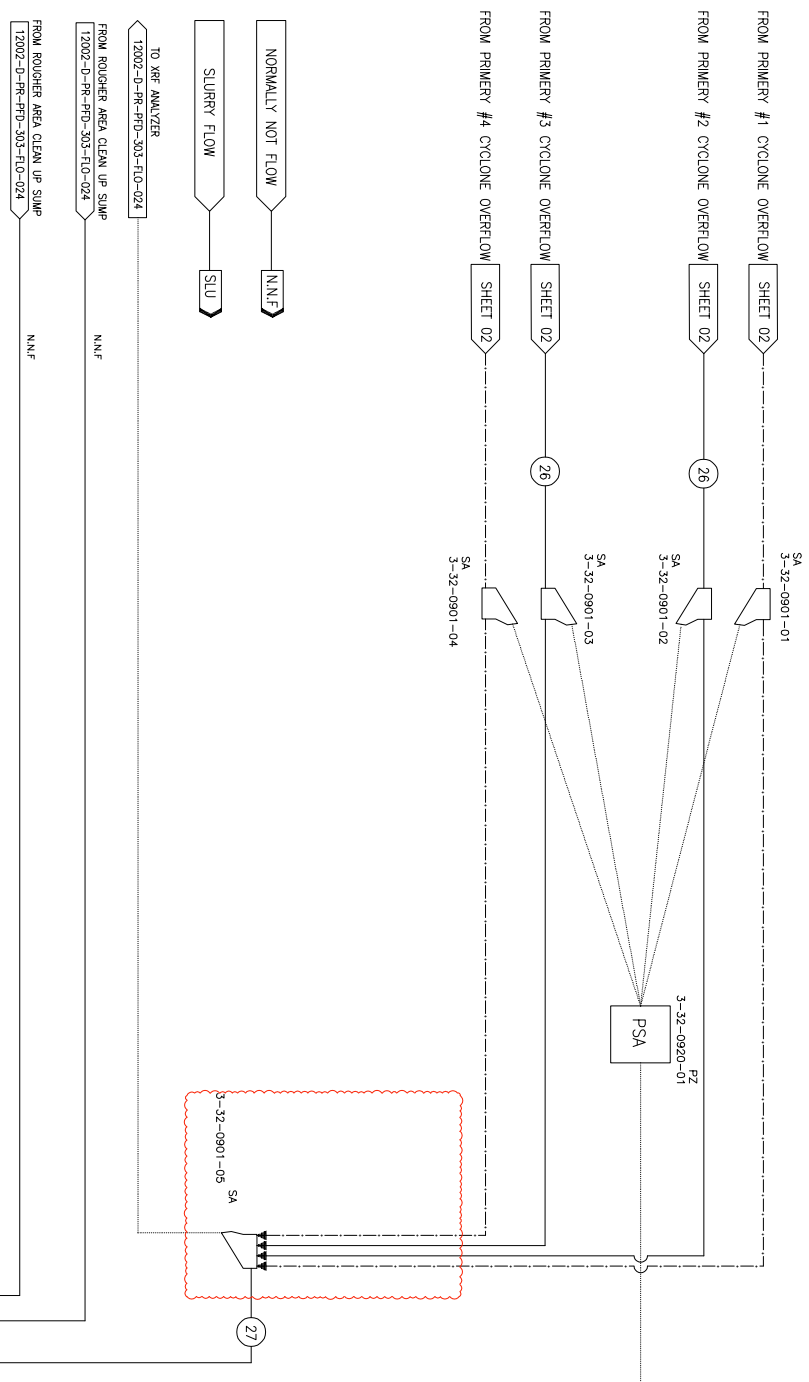
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Process Design Criteria 12002-D-PR-DCA-303-GNL-003

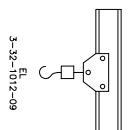
1. IN EMERGENCY SHUT DOWN, THE SLURRY LINE SHOULD BE DIVERTED TO SPILLAGE POND.
2. BALL LOADING CHUTE.
3. ELECTRIC HOIST TO HAVE MOVABLE BUGGY TO TRANSPORT BALLS FROM BUNKERS TO BALL LOADING CHUTE. DEDICATED CRANAL BEAM TO BE USED ON BALL MILLS. THE QTY. WILL BE FINALIZED AFTER FINALIZING THE GENERAL LAYOUT.
4. MILK OF LIME VASS IS NOT CONSIDERED IN HYDRO CYCLONES/OVERFLOW.
5. ELECTRICAL HOIST 1012-11 WILL BE USED FOR SLUMP PUMPS IN SAG MILL AREA

CLEAN UP SLUMP 03



NOMINAL FLOW 2340 DTPH 0.44 Cu									
Stream no		26		27					
Solids	dm ³ /h	1173.51		2947.02					
Solid	%	33.00		33.00					
Water/flowrate	m ³ /h	2382.58		4765.16					
Slurry flowrate	m ³ /h	2801.69		5603.38					
Slurry/bulk	v/v	3536.69		7112.18					
Slurry Density	v/v ³	1.27		1.27					
Solid Density	v/v ³	2.8		2.8					
Cu Grade	%	0.44		0.44					
Cu Mass	v/h	5.15		10.33					
Cu Distribution	%	50		100.0					
DESIGN FLOW 2700 DTPH 0.44 Cu									
Stream no		28		27					
Solids	dm ³ /h	1354.06		2708.10					
Solid	%	33.00		33.00					
Water/flowrate	m ³ /h	2749.13		5498.26					
Slurry flowrate	m ³ /h	3232.72		6465.43					
Slurry/bulk	v/h	4103.18		8206.35					
Slurry Density	v/v ³	1.27		1.27					
Solid Density	v/v ³	2.8		2.8					
Cu Grade	%	0.44		0.44					
Cu Mass	v/h	5.94		11.92					
Cu Distribution	%	50.00		100.00					

NOMINAL CAPACITY (2340 DMTPP)									
STREAM NO		204	205	206	207	208	209		
REAGENT TYPE		C4132	SP1X	C2430	MIBC	F742	FUEL OIL		
CONCENTRATION	w/w %	100.00	10.00	100.00	100.00	100.00	100.00		
S.G		1.00	1.00	1.20	0.81	1.01	0.82		
MINIMUM DOSAGE	g/t	N.N.F	N.N.F	N.N.F	7.00	7.00	15.00		
DOSAGE FLOW RATE (MIN.)	ml/min	-	-	-	-	338.29	270.56	713.41	
DESIGN DOSAGE	g/t	-	-	-	-	17.50	17.50	18.75	
DOSAGE FLOW RATE (MAX.)	ml/min	-	-	-	-	845.72	676.41	891.77	
DESIGN CAPACITY (2700 DMTPP)									
STREAM NO		204	205	206	207	208	209		
REAGENT TYPE		C4132	SP1X	C2430	MIBC	F742	FUEL OIL		
CONCENTRATION	w/w %	100.00	10.00	100.00	100.00	100.00	100.00		
S.G		1.00	1.00	1.20	0.81	1.01	0.82		
MINIMUM DOSAGE	g/t	N.N.F	N.N.F	N.N.F	7.00	7.00	15.00		
DOSAGE FLOW RATE (MIN.)	ml/min	-	-	-	-	390.33	312.19	823.17	
DESIGN DOSAGE	g/t	-	-	-	-	17.50	17.50	18.75	
DOSAGE FLOW RATE (MAX.)	ml/min	-	-	-	-	972.22	780.48	1028.96	



AG
3-32-2401-01
CT NOTE 4
3-32-3232-01

1. IN EMERGENCY SHUT DOWN, THE SUREY LINE SHOULD BE DIVERTED TO SPILLAGE POND.
2. THE NECESSITY OF ELECTRICAL HOIST FOR CLEANUP PUMP MAINTENANCE ACCESS WILL BE FINALIZED AFTER FINALIZING THE GENERAL LAYOUT.
3. ELECTRICAL HOIST TO BE USED TO ACCESS CONDITIONING AREA CLEAN UP PUMP PUMP FOR MAINTENANCE PURPOSES.
4. THIS TANK IS CONDITIONER FOR ROUGHER FLOTATION CELLS FEED.

Process Design Criteria 12002-D-PR-DCA-303-GNL-003

REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	AUTHORIZE
04	2026-02-25	ISSUED FOR APPROVAL				
03	2025-10-14	ISSUED FOR APPROVAL				
02	2024-01-22	ISSUED FOR FINAL				
01	2023-12-24	ISSUED FOR APPROVAL				
00	2023-10-28	ISSUED FOR REVIEW				

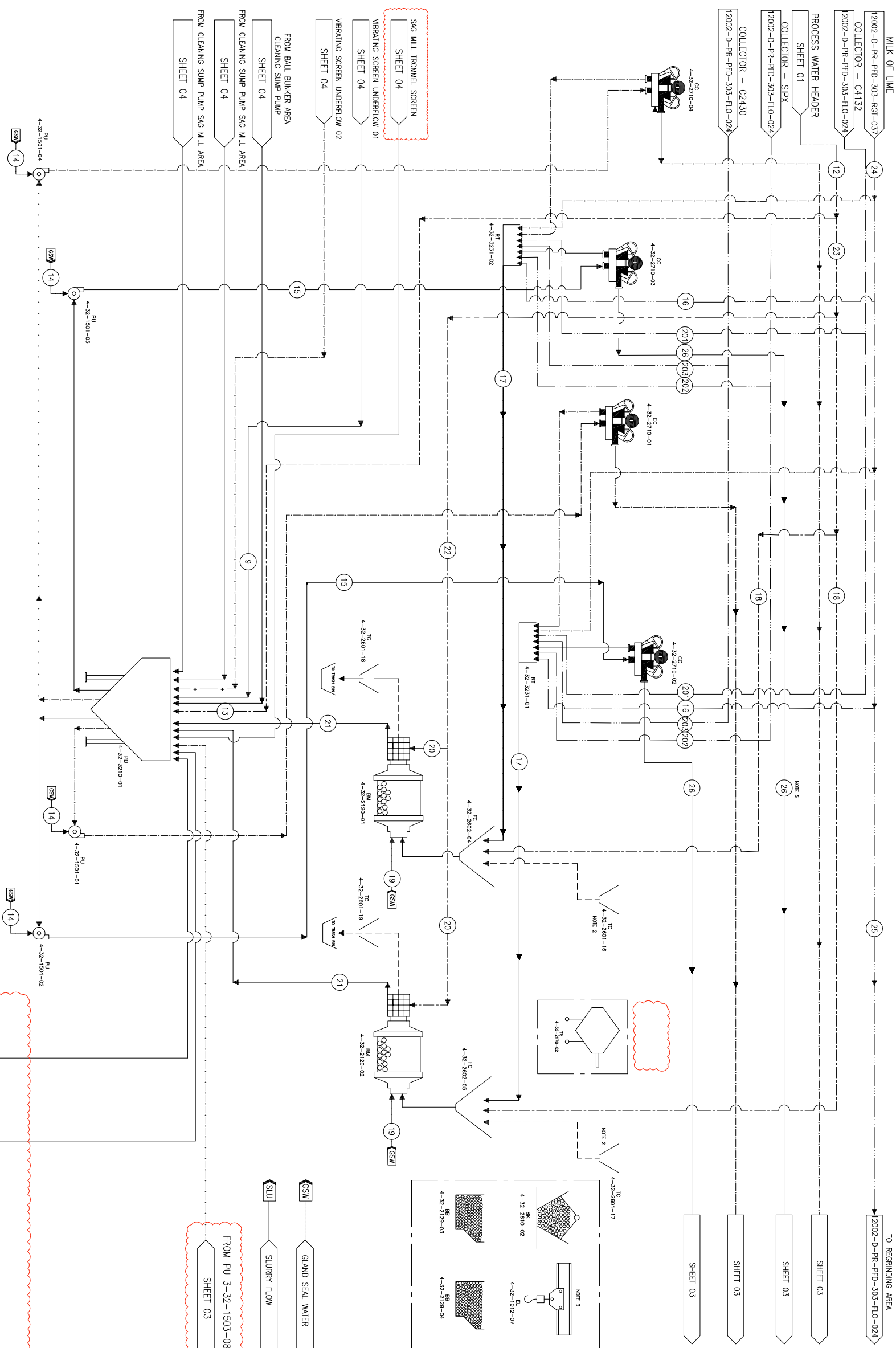
Consultant:

Project:

Title:

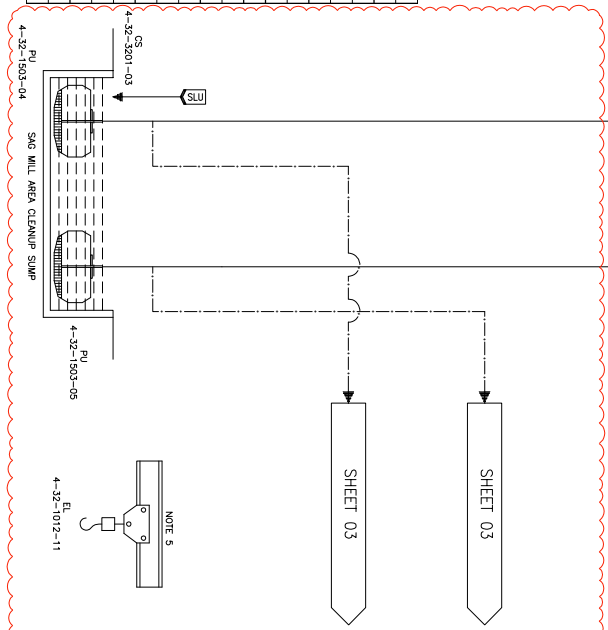
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NOMINAL FLOW 2340 DTPH 0.44 Cu																
Stream no	9	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Solids	dm ³ /h	2347.02	0.00	0.00	0.00	4664.74	0.702	3521.23	0.00	0.00	3521.23	0.00	0.00	7.02	5.62	1173.51
Solid	%	58.81	0.00	0.00	55.00	15.00	70.65	0.00	0.00	0.00	64.54	0.00	0.00	15.00	15.00	38.00
Water flowrate	m ³ /h	1648.88	3055.32	2151.02	9.00	3841.15	3.98	1462.55	392.15	20.00	1934.70	120.00	904.30	39.78	31.82	2382.58
Slurry flowrate	m ³ /h	2482.10	3055.32	2151.02	9.00	5513.84	4.27	2720.13	392.15	20.00	60.00	120.00	904.30	42.71	34.16	2801.69
Slurry/bulk	t/h	3990.90	3055.32	2151.02	9.00	8353.89	4.68	4983.78	392.15	20.00	60.00	120.00	904.30	46.80	37.44	3556.09
Slurry Density	t/m ³	1.61	1.00	1.00	1.00	1.35	1.10	1.83	1.00	1.00	1.00	1.00	1.00	1.10	1.10	1.27
Solid Density	t/m ³	2.80	-	-	-	2.80	2.40	2.80	-	-	2.80	-	-	2.40	2.40	2.80
Cu Grade	%	0.44	-	-	-	0.44	-	0.44	-	-	0.44	-	-	-	-	0.44
Cu Mass	t/h	10.30	-	-	-	20.59	-	15.44	-	-	15.44	-	-	-	-	5.15
Cu Distribution	%	100.00	-	-	-	200.00	-	150.00	-	-	150.00	-	-	-	-	50.00
DESIGN FLOW 2700 DTPH 0.44 Cu																
Stream no	9	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Solids	dm ³ /h	2708.10	0.00	0.00	0.00	5417.00	0.81	4062.95	0.00	0.00	4062.95	0.00	0.00	8.10	6.48	1354.08
Solid	%	59.20	0.00	0.00	0.00	55.00	15.00	70.65	0.00	0.00	64.67	0.00	0.00	15.00	15.00	33.00
Water flowrate	m ³ /h	1866.02	3365.06	2540.10	9.00	4432.09	4.59	1687.55	452.48	20.00	60.00	120.00	1024.96	45.90	36.72	2749.13
Slurry flowrate	m ³ /h	2833.19	3365.06	2540.10	9.00	6366.73	4.93	3138.61	452.48	20.00	60.00	120.00	1024.96	49.28	39.42	3322.72
Slurry/bulk	t/h	4574.11	3365.06	2540.10	9.00	9849.09	5.40	5750.51	452.48	20.00	60.00	120.00	1024.96	54.00	43.30	4103.18
Slurry Density	t/m ³	1.61	1.00	1.00	1.00	1.35	1.10	1.83	1.00	1.00	1.00	1.00	1.00	1.10	1.10	1.27
Solid Density	t/m ³	2.80	-	-	-	2.80	2.40	2.80	-	-	2.80	-	-	2.40	2.40	2.80
Cu Grade	%	0.44	-	-	-	0.44	-	0.44	-	-	0.44	-	-	-	-	0.44
Cu Mass	t/h	11.88	-	-	-	23.76	-	17.82	-	-	17.82	-	-	-	-	5.94
Cu Distribution	%	100.00	-	-	-	200.00	-	150.00	-	-	150.00	-	-	-	-	50.00

NOMINAL CAPACITY (2340 DMPY)						
STREAM NO.		201	202	203		
REAGENT TYPE		C4132	SP1X	C2430		
CONCENTRATION		100.00	100.00	100.00		
S.G.		1.00	1.00	1.00		
MINIMUM DOSAGE		g/t	1.75	1.75		
DOSAGE FLOW RATE (MIN.)		ml/min	78.00	68.25	56.88	
DESIGN DOSAGE		g/t	4.00	6.40	4.40	
DOSAGE FLOW RATE (MAX.)		ml/min	156.00	171.60	143.00	
	DESIGN CAPACITY (2700 DMPY)					
STREAM NO.		201	202	203		
REAGENT TYPE		C4132	SP1X	C2430		
CONCENTRATION		w/w %	100.00	100.00		
S.G.		1.00	1.00	1.20		
MINIMUM DOSAGE		g/t	2.00	1.75	1.75	
DOSAGE FLOW RATE (MIN.)		ml/min	90.00	78.75	65.63	
DESIGN DOSAGE		g/t	4.00	4.40	4.40	
DOSAGE FLOW RATE (MAX.)		ml/min	180.00	158.00	165.00	



1. IN EMERGENCY SHUT DOWN, THE SLURRY LINE SHOULD BE DIVERGED TO SPILLAGE POND.
 2. BALL LOADING CHUTE.
 3. ELECTRIC HOIST TO HAVE MOVABLE BUGGY TO TRANSPORT BALLS FROM BUNKERS TO BALL LOADING CHUTE. DEDICATED CRAWL BEAM TO BE USED ON BALL MILLS. THE QTY. WILL BE FINALIZED AFTER FINALIZING THE GENERAL LAYOUT.
 4. MILK OF LIME MASS IS NOT CONSIDERED IN HYDRO CYCLONES OVERFLOW.
 5. ELECTRICAL HOIST 1012-11 WILL BE USED FOR SLUMP PUMPS IN SAG MIL AREA.
- CLEAN UP SLUMP 03

Process Design Criteria	12002-D-PR-DCA-303-GNL-003

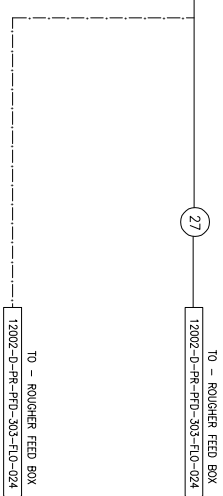
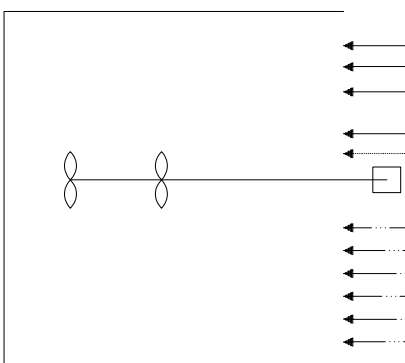
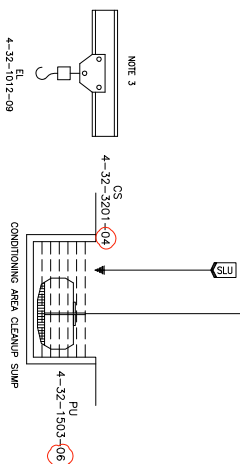
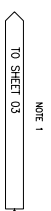
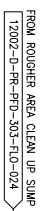
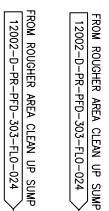
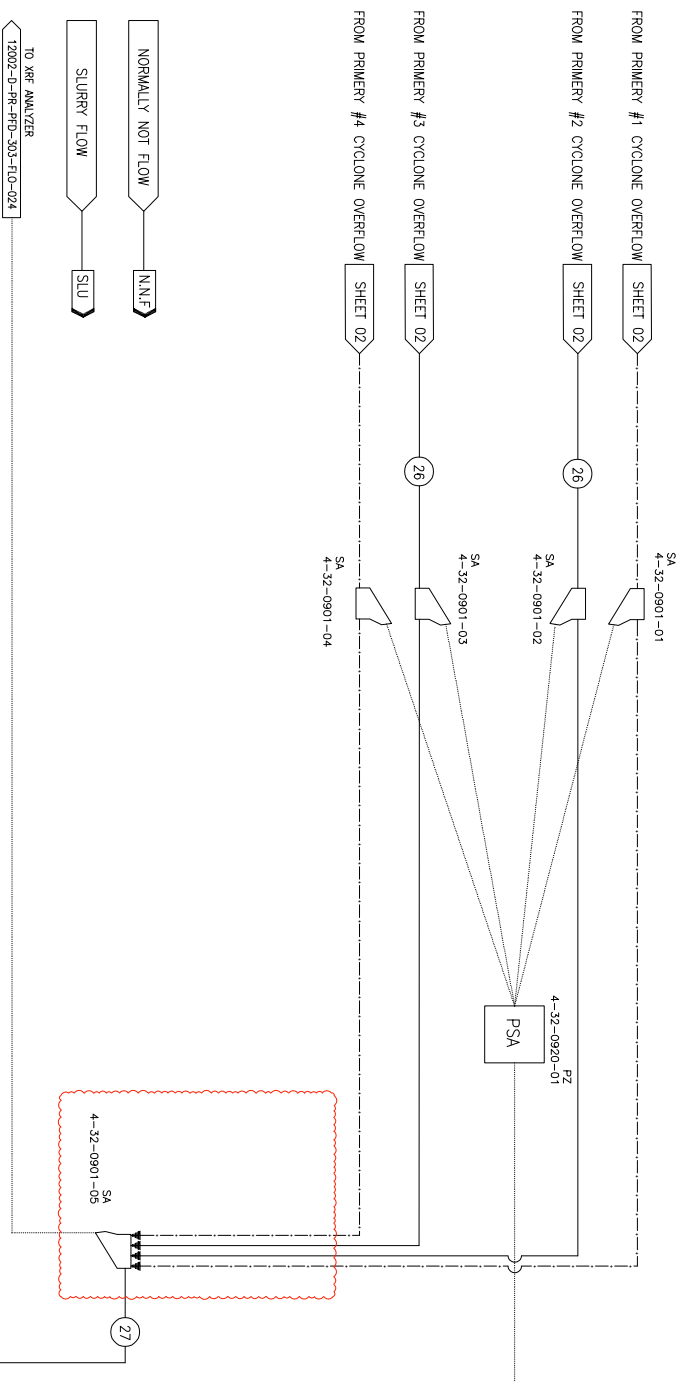
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	AUTHORIZED
04	2026-02-26	ISSUED FOR APPROVAL				
03	2026-10-14	ISSUED FOR APPROVAL				
02	2024-01-22	ISSUED FOR FINAL				
01	2023-12-24	ISSUED FOR APPROVAL				
00	2023-10-26	ISSUED FOR REVIEW				

Consultants:

Project

Title:

Client Number



NOMINAL FLOW 2340 DTPH 0.44 Cu		26	27
Stream no			
Solids	dm ³ /h	1173.51	2947.02
Solid	%	33.00	33.00
Water/flowrate	m ³ /h	2382.58	4765.16
Slurry flowrate	m ³ /h	2801.69	5603.38
Slurry/bulk	l/h	3536.09	7112.18
Slurry Density	l ³ /h	1.27	1.27
Solid Density	l ³ /m ³	2.8	2.8
Cu Grade	%	0.44	0.44
Cu Mass	g/h	5.94	11.92
Distribution	%	50.00	100.00

NOMINAL CAPACITY (2340 DMTPP)									
STREAM NO		204	205	206	207	208	209		
REAGENT TYPE		C4132	SP1X	C2430	MIBC	F742	FUEL OIL		
CONCENTRATION	w/w %	100.00	10.00	100.00	100.00	100.00	100.00		
S.G		1.00	1.00	1.20	0.81	1.01	0.82		
MINIMUM DOSAGE	g/t	N.N.F	N.N.F	N.N.F	7.00	7.00	15.00		
DOSAGE FLOW RATE (MIN.)	ml/min	-	-	-	390.33	312.19	823.17		
DESIGN DOSAGE	g/t	-	-	-	17.50	17.50	18.75		
DOSAGE FLOW RATE (MAX.)	ml/min	-	-	-	972.22	780.48	1028.96		
DESIGN CAPACITY (2700 DMTPP)									
STREAM NO		204	205	206	207	208	209		
REAGENT TYPE		C4132	SP1X	C2430	MIBC	F742	FUEL OIL		
CONCENTRATION	w/w %	100.00	10.00	100.00	100.00	100.00	100.00		
S.G		1.00	1.00	1.20	0.81	1.01	0.82		
MINIMUM DOSAGE	g/t	N.N.F	N.N.F	N.N.F	7.00	7.00	15.00		
DOSAGE FLOW RATE (MIN.)	ml/min	-	-	-	390.33	312.19	823.17		
DESIGN DOSAGE	g/t	-	-	-	17.50	17.50	18.75		
DOSAGE FLOW RATE (MAX.)	ml/min	-	-	-	845.72	676.41	891.77		

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Process Design Criteria 12002-D-PR-DCA-303-GNL-003

12002-D-PR-DCA-303-GNL-003

1. IN EMERGENCY SHUT DOWN, THE SUREY LINE SHOULD BE DIVERTED TO SPILLAGE POND.
2. THE NECESSITY OF ELECTRICAL HOIST FOR CLEANUP PUMP MAINTENANCE ACCESS WILL BE FINALIZED AFTER FINALIZING THE GENERAL LAYOUT.
3. ELECTRICAL HOIST TO BE USED TO ACCESS CONDITIONING AREA CLEAN UP PUMP PUMP FOR MAINTENANCE PURPOSES.
4. THIS TANK IS CONDITIONER FOR ROUGHER FLOTATION CELLS FEED.