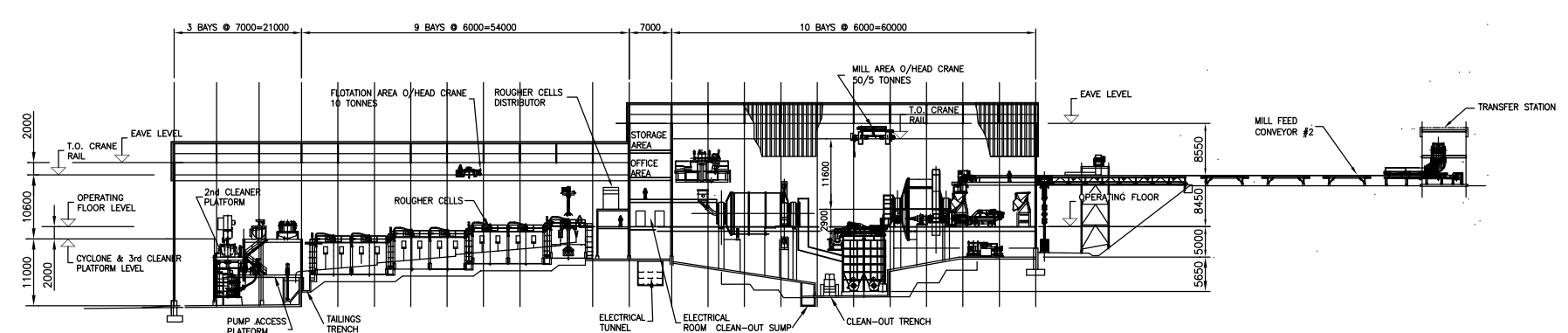
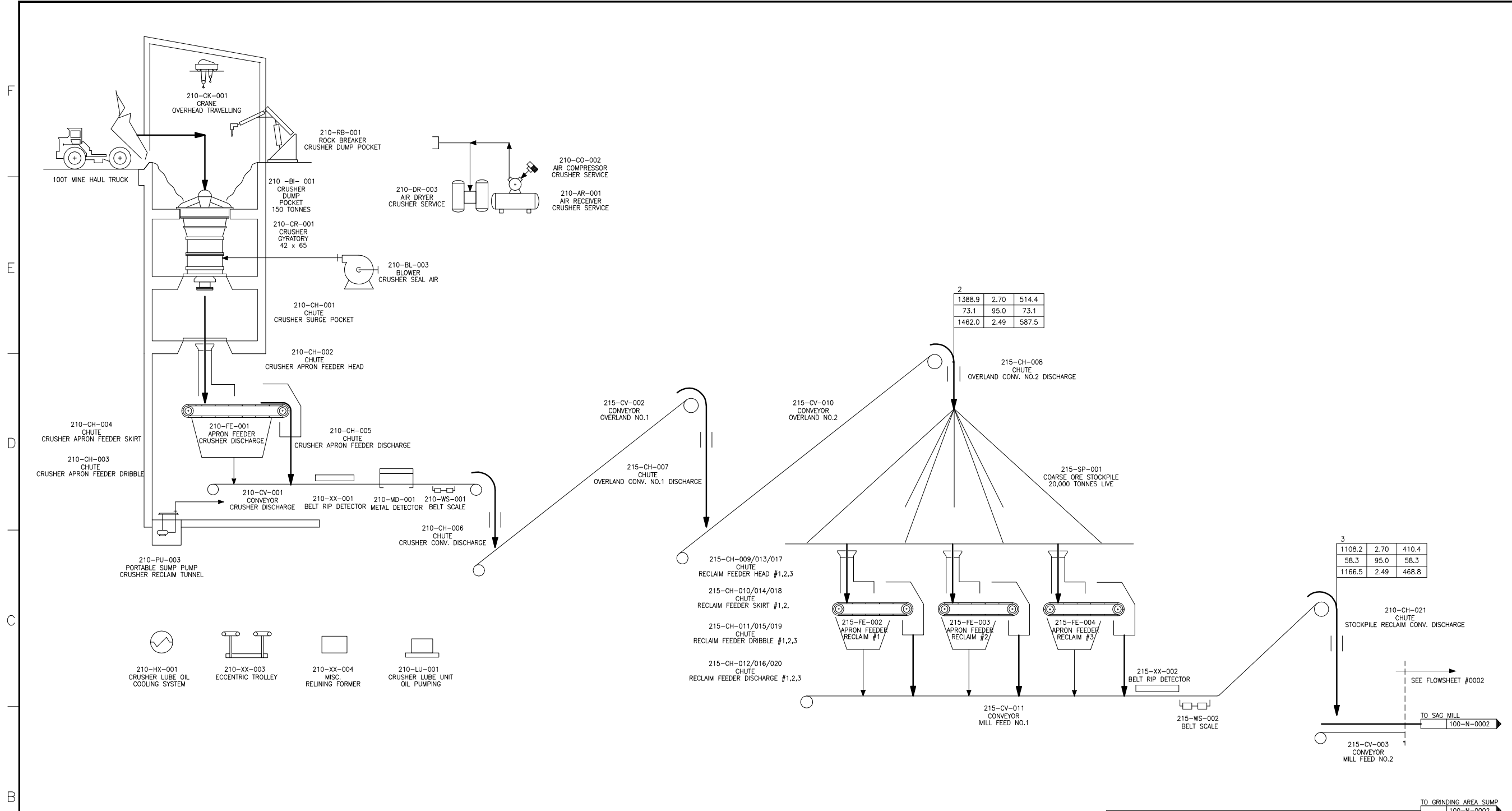


PLAN



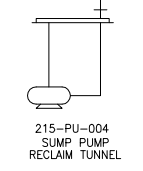
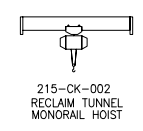
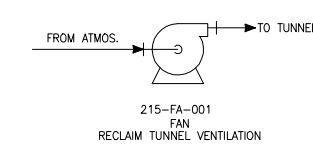
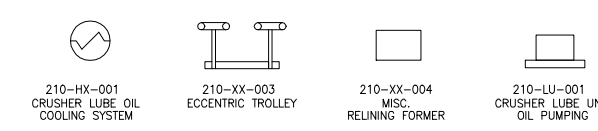
LONGITUDINAL SECTION

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				PROJECT NO.	00142314	BY	D/M/Y																
PACKAGE CODE		DSN.																					
		CHK.																					
		APP.																					
SCALE NTS				AREA MIRADOR PROJECT ECUADOR		CLIENT DWG. NO.																	
STAMP/SEAL <small>PROPRIETARY INFORMATION: THIS DRAWING, THE KNOW HOW AND INFORMATION DISCLOSED HEREIN IS THE PROPERTY OF AMEC AMERICAS LIMITED. THIS DRAWING MAY NOT BE USED, COPIED OR DISCLOSED EXCEPT AS APPROVED BY AMEC AMERICAS LIMITED. UPON DEMAND, THIS DRAWING AND ALL COPIES HEREOF SHALL BE RETURNED IMMEDIATELY TO AMEC AMERICAS LIMITED.</small>				TITLE PROCESS PLANT PLAN & LONG SECTION		DRAWING NO. A1-142314-100-M-0002																	
ISS D/M/Y APP T.N. FEASIBILITY STUDY ISSUED FOR				REV. A		CADD FILE ADDRESS P:/CAD/MEC/100M0002.dwg																	



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	1462.0	2.49	587.5

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ISSUED FOR FEASIBILITY REPORT 6 APRIL, 2005

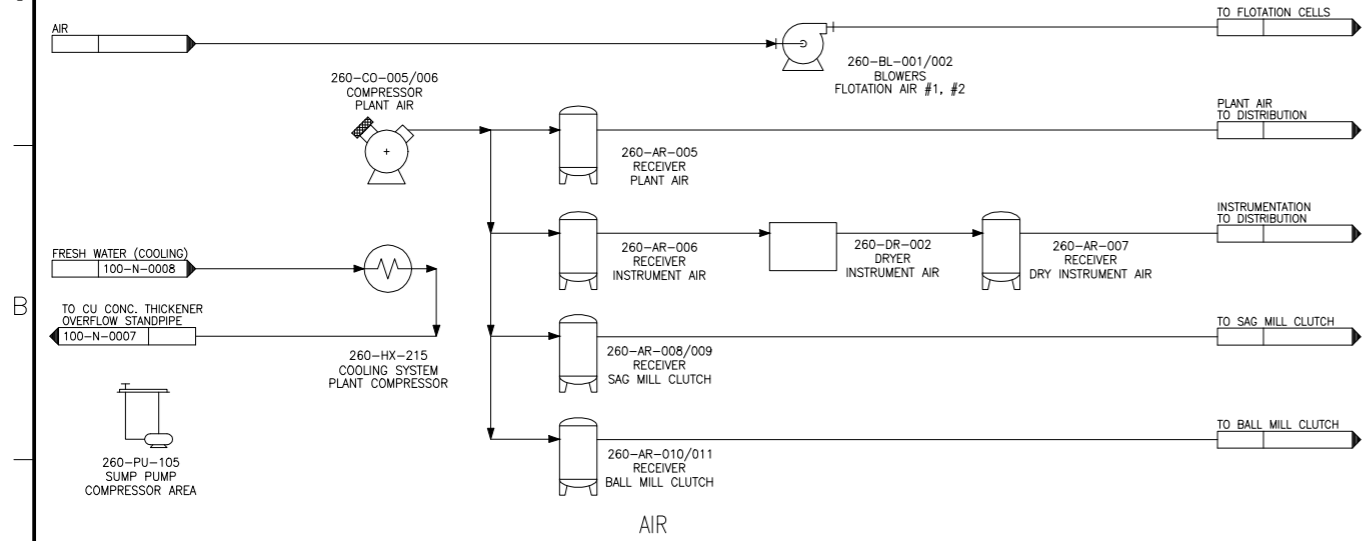
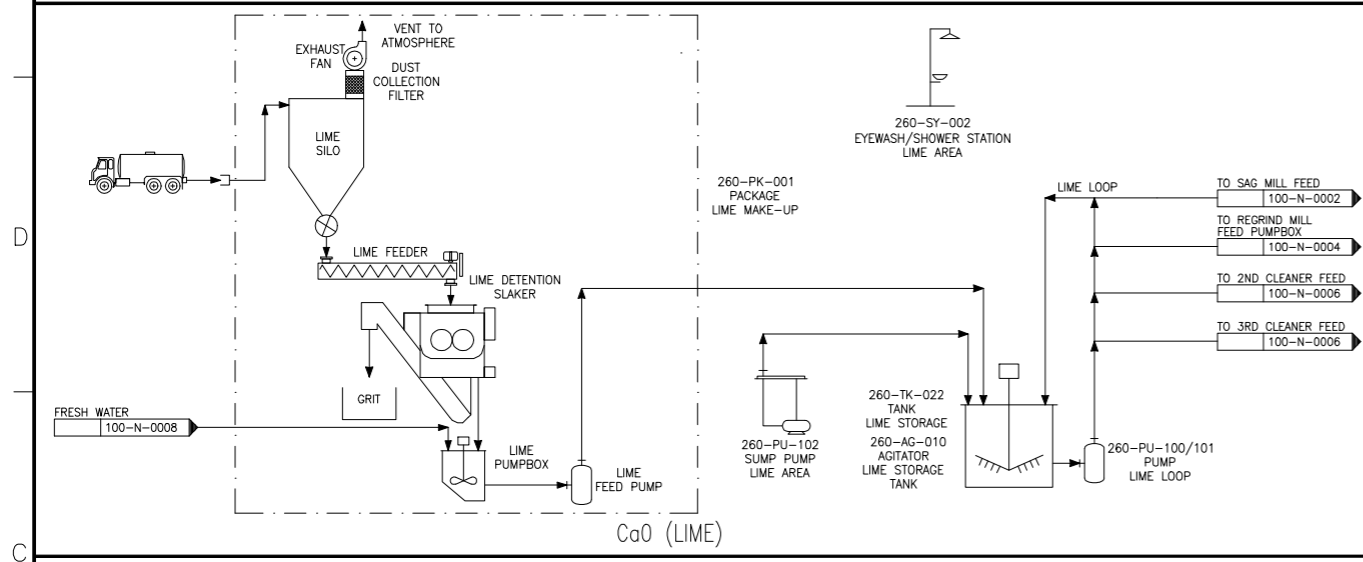
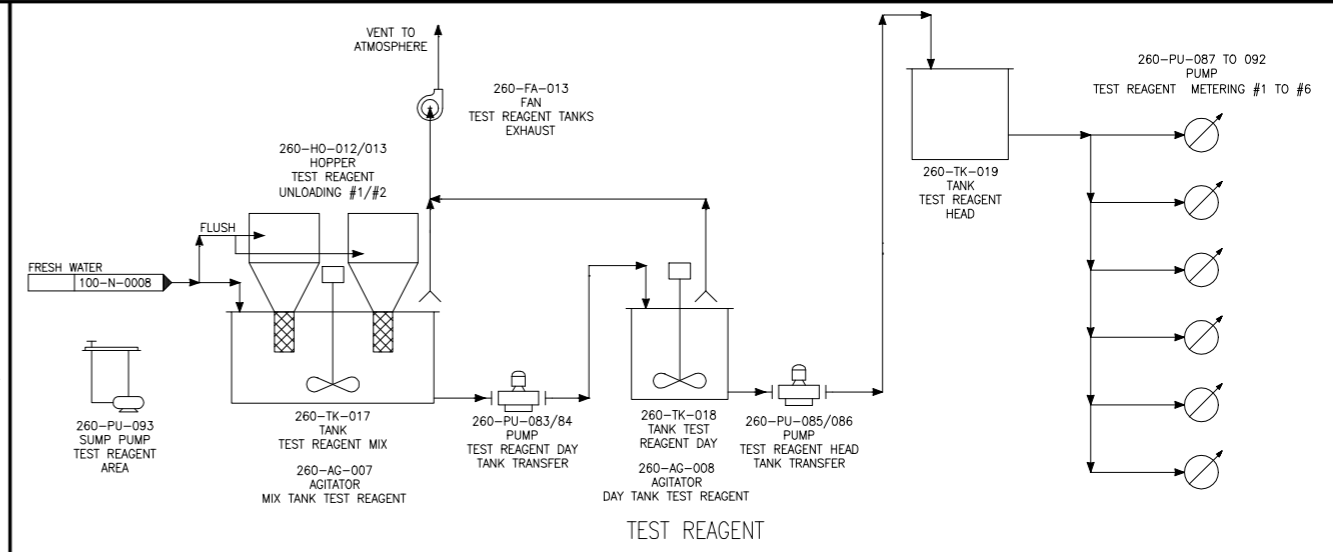
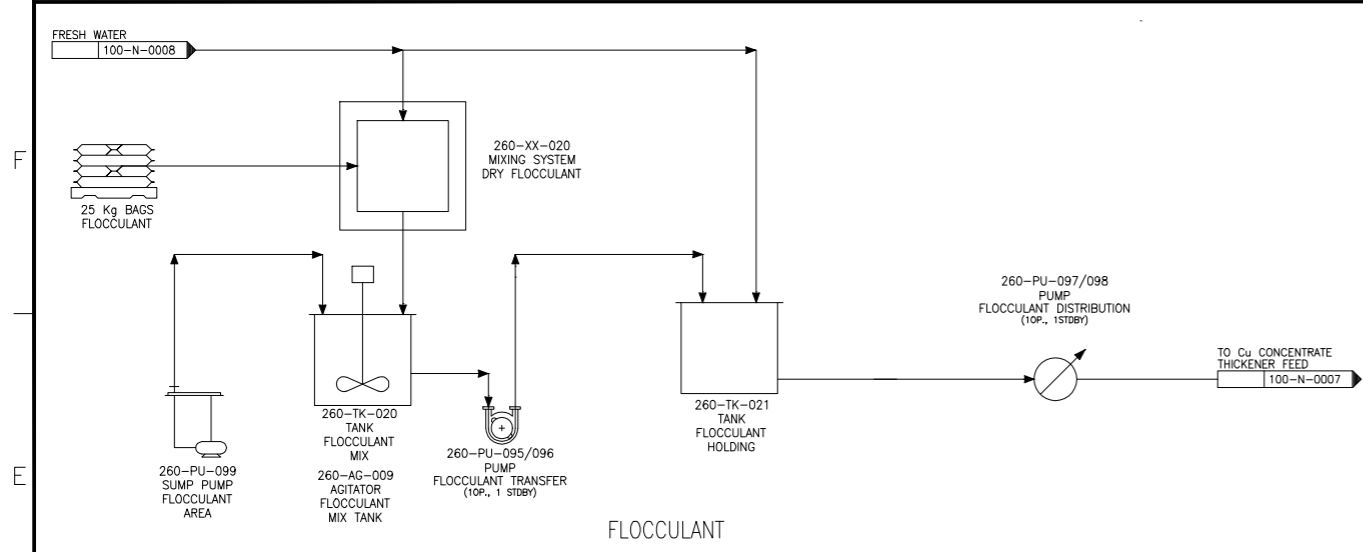
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1/h PULP	S.G. PULP	m ³ /h PULP	

8	7	6	5	4	3	2	1
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PROJECT NO.	DSN.	BY	D/M/Y	AREA	MIRADOR PROJECT ECUADOR
PACKAGE CODE	DRN.	W.M.	19/02/04	TITLE	FLWSHEET No 1 CRUSHER & STOCKPILE 25,000 MTPD
SCALE NTS	CHK.	APP.		CLIENT DWG. NO.	A1-142314-100-N-0001
STAMP/SEAL	APP.			DRAWING NO.	A1-142314-100-N-0001
<small>PROPRIETARY INFORMATION: THIS DRAWING, THE KNOW HOW AND INFORMATION DISCLOSED HEREIN IS THE PROPERTY OF AMEC E&C SERVICES INC. THIS DRAWING MAY NOT BE USED, COPIED OR DISCLOSED EXCEPT AS APPROVED BY AMEC E&C SERVICES INC. UPON DEMAND, THIS DRAWING AND ALL COPIES HEREOF SHALL BE RETURNED IMMEDIATELY TO AMEC E&C SERVICES INC.</small>					

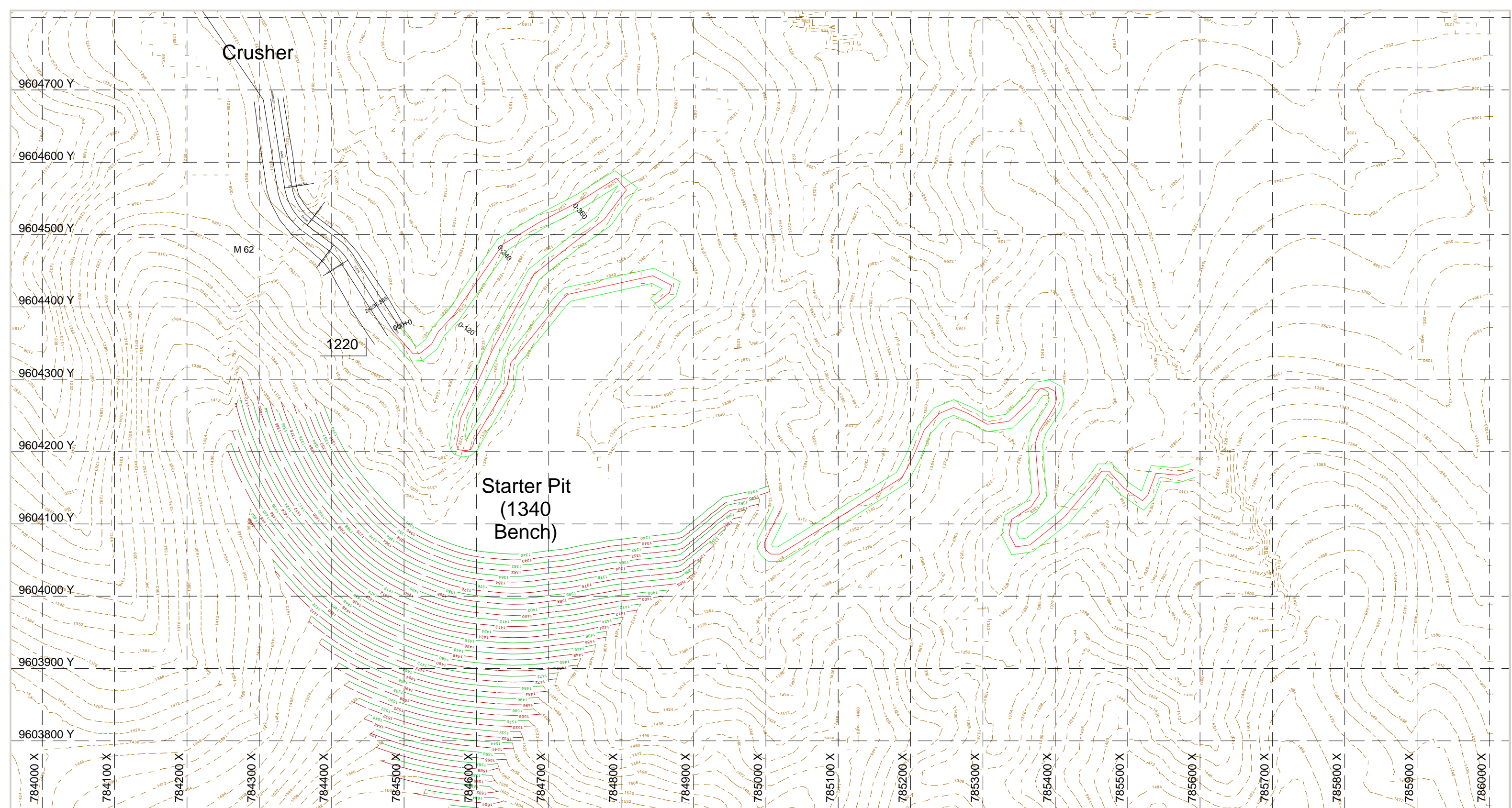
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SCALE NTS		DRAWING NO. A1-142314-100-N-0001	
STAMP/SEAL		REV. E	



ISSUED FOR FEASIBILITY REPORT

6 APRIL, 2005

amec		CORRIENTE RESOURCES INC.	
PROJECT NO.	BY	D/M/Y	AREA
PACKAGE CODE	DRN. W.M.	19/02/04	TITLE
SCALE NTS	CHK.	APP.	
STAMP/SEAL		FLOWSHEET No 10 FLOCCULANT, LIME, AIR 25,000 MTPD	
PROPRIETARY INFORMATION: THIS DRAWING, THE KNOW HOW AND INFORMATION DISCLOSED HEREIN IS THE PROPERTY OF AMEC AMERICAS LIMITED. THIS DRAWING MAY NOT BE USED, COPIED OR DISCLOSED EXCEPT AS APPROVED BY AMEC AMERICAS LIMITED. UPON DEMAND, THIS DRAWING AND ALL COPIES HEREOF SHALL BE RETURNED IMMEDIATELY TO AMEC AMERICAS LIMITED.		CLIENT DWG. NO.	DRAWING NO.
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		CADD FILE ADDRESS P:\CAD\PRC\100-N-0010.DWG	



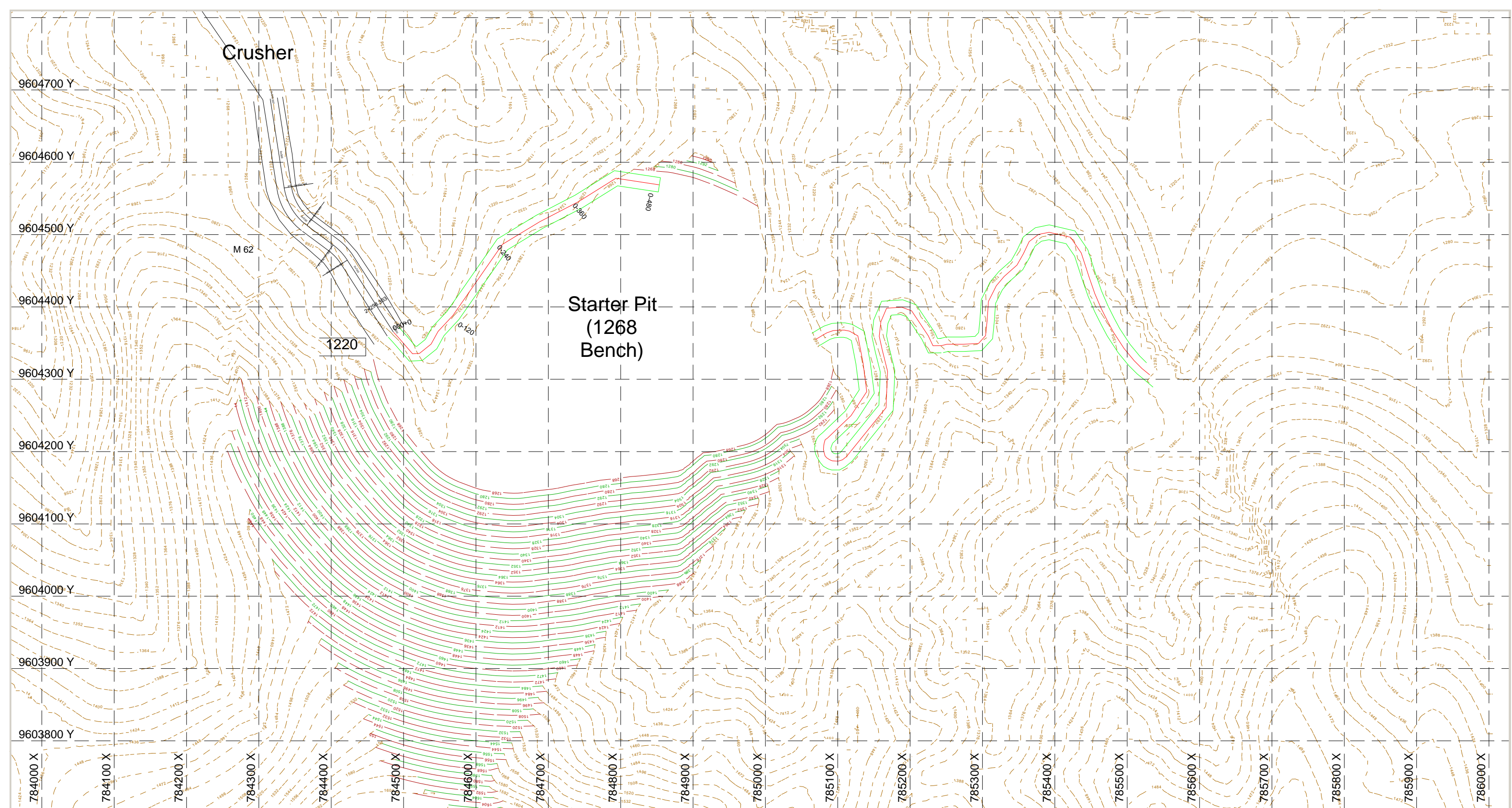
Corriente Mirador Project

Drawing: D-142314-100-K-0001
 Date: October 19, 2004-Revised for New Crusher Point Feb 28, 2005
 Year: Year -1 (Minus 1)



AMEC Americas Limited
 Mining and Metals Consulting
 Vancouver, Canada

Units: metres Scale: 1:5000 Contours: 12 metres



Corriente Mirador Project

Drawing: D-142314-100-K-0002
 Date: October 19, 2004-Revised for New Crusher Point Feb 28, 2005
 Year: Year 1 (One)



AMEC Americas Limited
 Mining and Metals Consulting
 Vancouver, Canada

Units: metres Scale: 1:5000 Contours: 12 metres

Crusher

Pit Haul Road

Starter Pit
(1244
Bench)

Intermediate Pit (1364 Bench)

Ultimate Pit (1412 Bench)

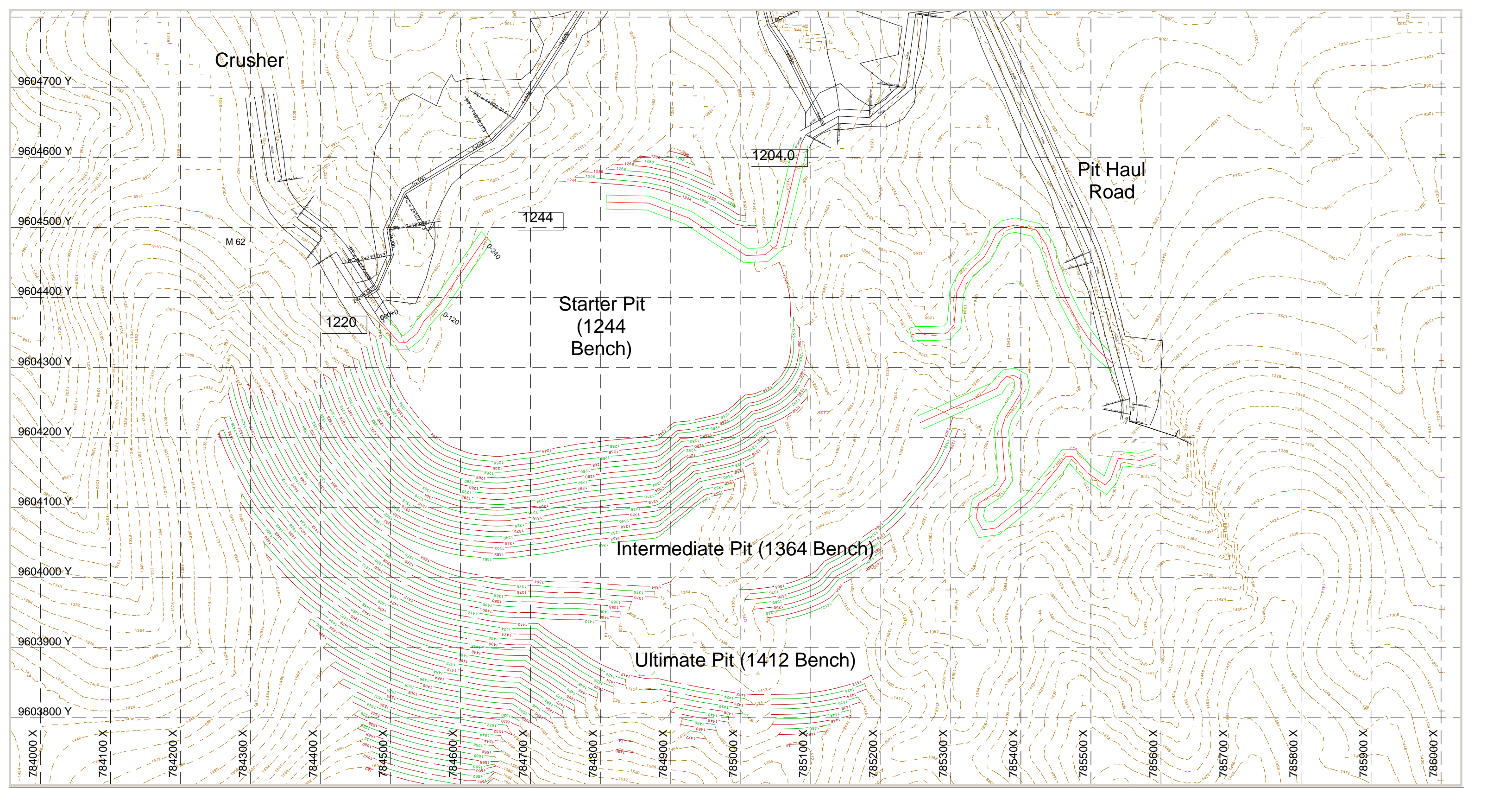
Corriente Mirador Project

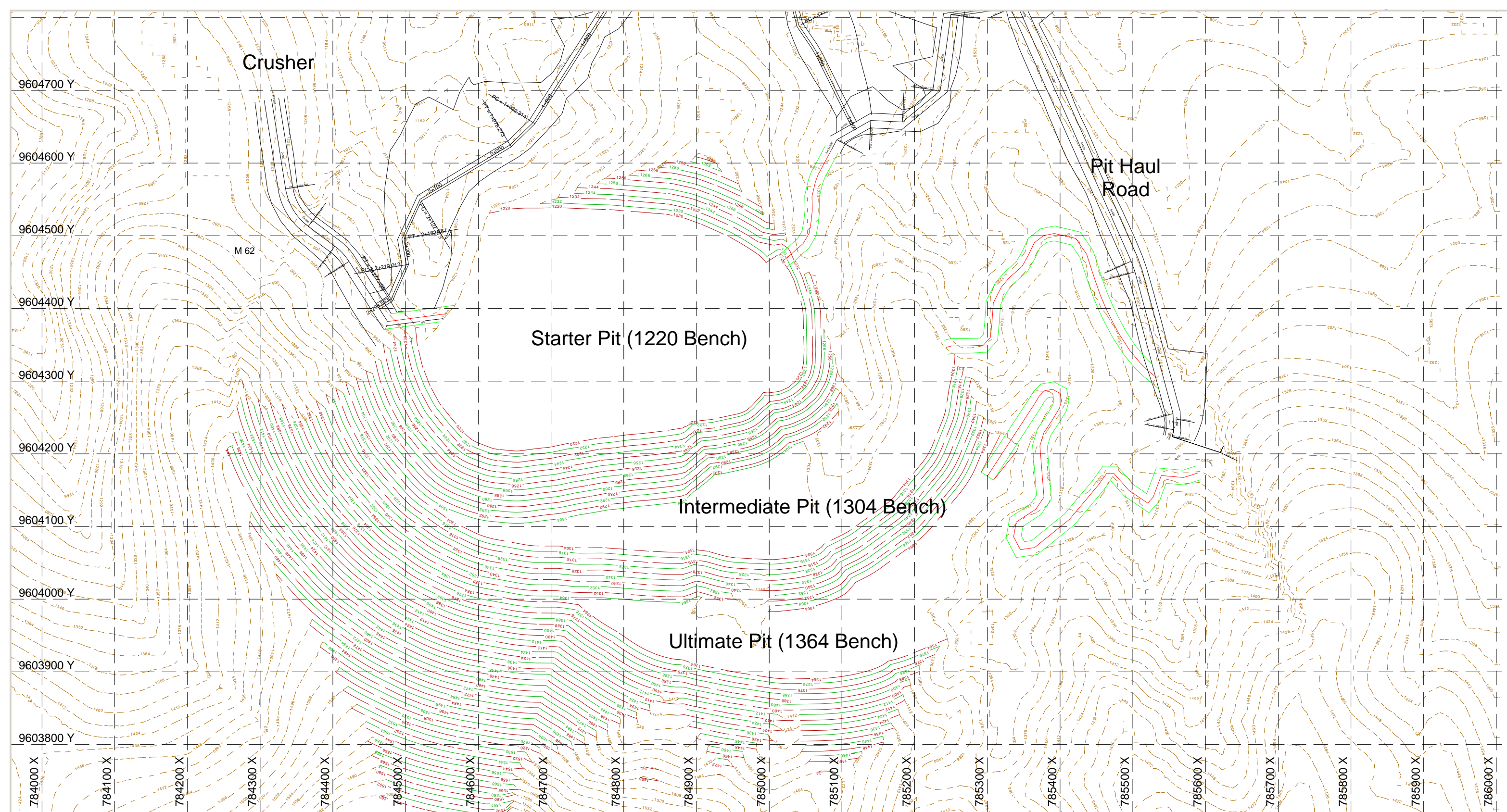
Drawing: D-142314-100-K-0003
Date: October 19, 2004-Revised for New Crusher Point Feb 28, 2005
Year: Year 2 (Two)



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Units: metres Scale: 1:5000 Contours: 12 metres





Corriente Mirador Project

Drawing: D-142314-100-K-0004
 Date: October 19, 2004-Revised for New Crusher Point Feb 28, 2005
 Year: Year 3 (Three)



AMEC Americas Limited
 Mining and Metals Consulting
 Vancouver, Canada

Units: metres Scale: 1:5000 Contours: 12 metres

Crusher

Haul Road

Starter Pit
(1208
Bench)

Intermediate Pit
(1266 Bench)

Ultimate Pit (1340 Bench)

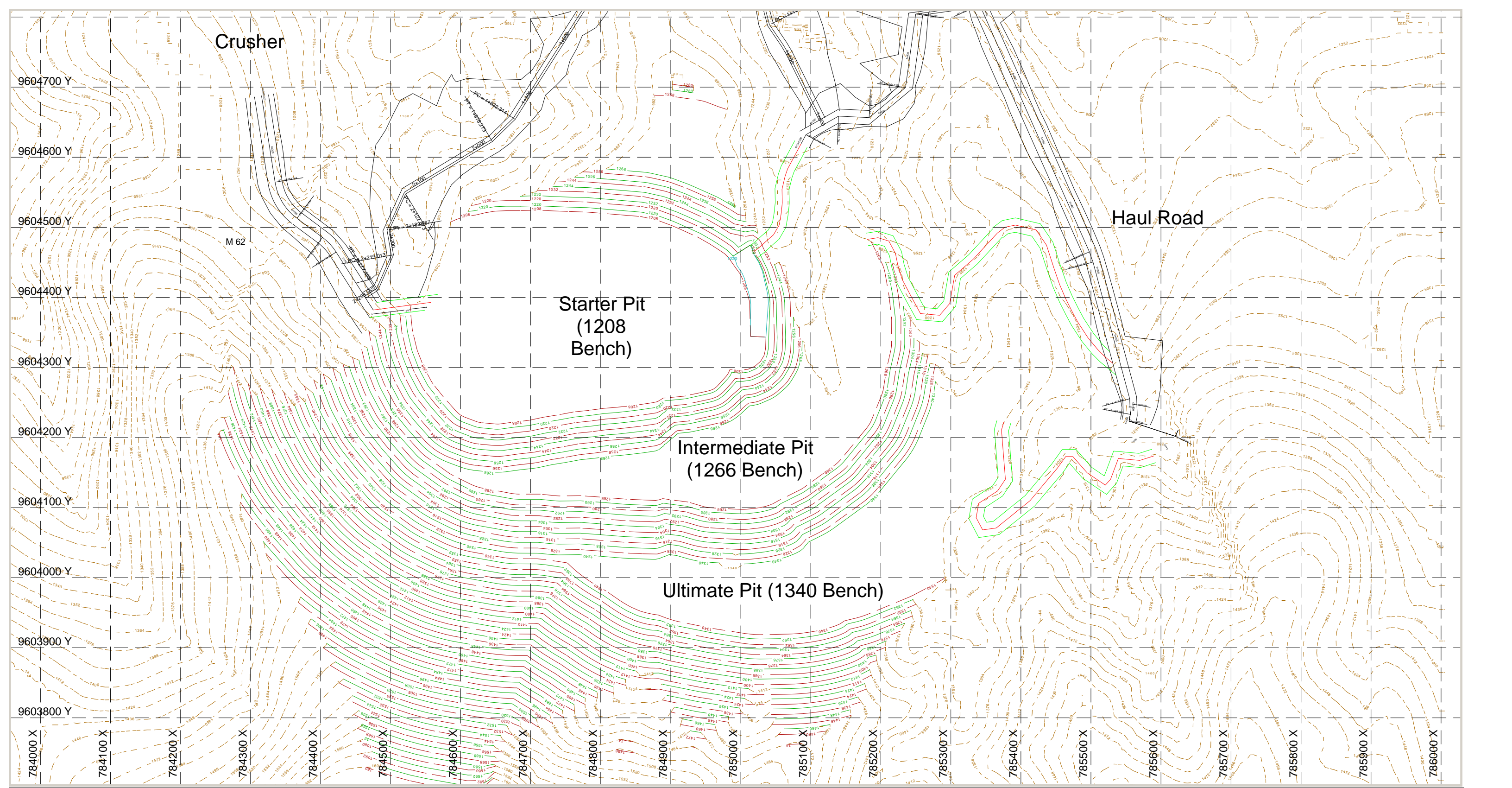
Corriente Mirador Project

Drawing: D-142314-100-K-0005
Date: October 19, 2004-Revised for New Crusher Point Feb 28, 2005
Year: Year 4 (Four)



AMEC Americas Limited
Mining and Metals Consulting
Vancouver, Canada

Units: metres Scale: 1:5000 Contours: 12 metres



Crusher

Pit Haul Road

M 62

Starter Pit (1184 Bench)

Intermediate Pit (1244 Bench)

Ultimate Pit (1316 Bench)

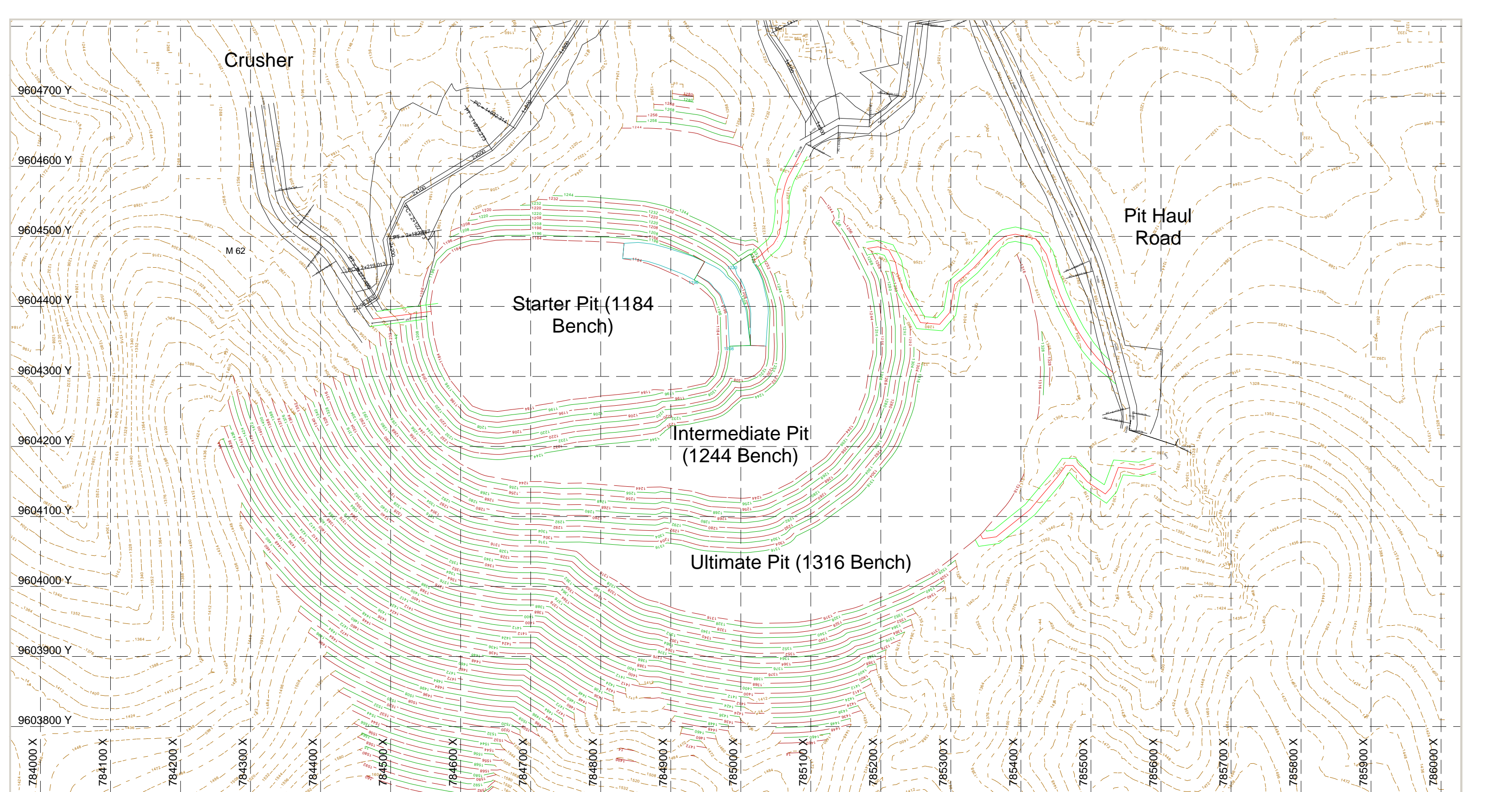
Corriente Mirador Project

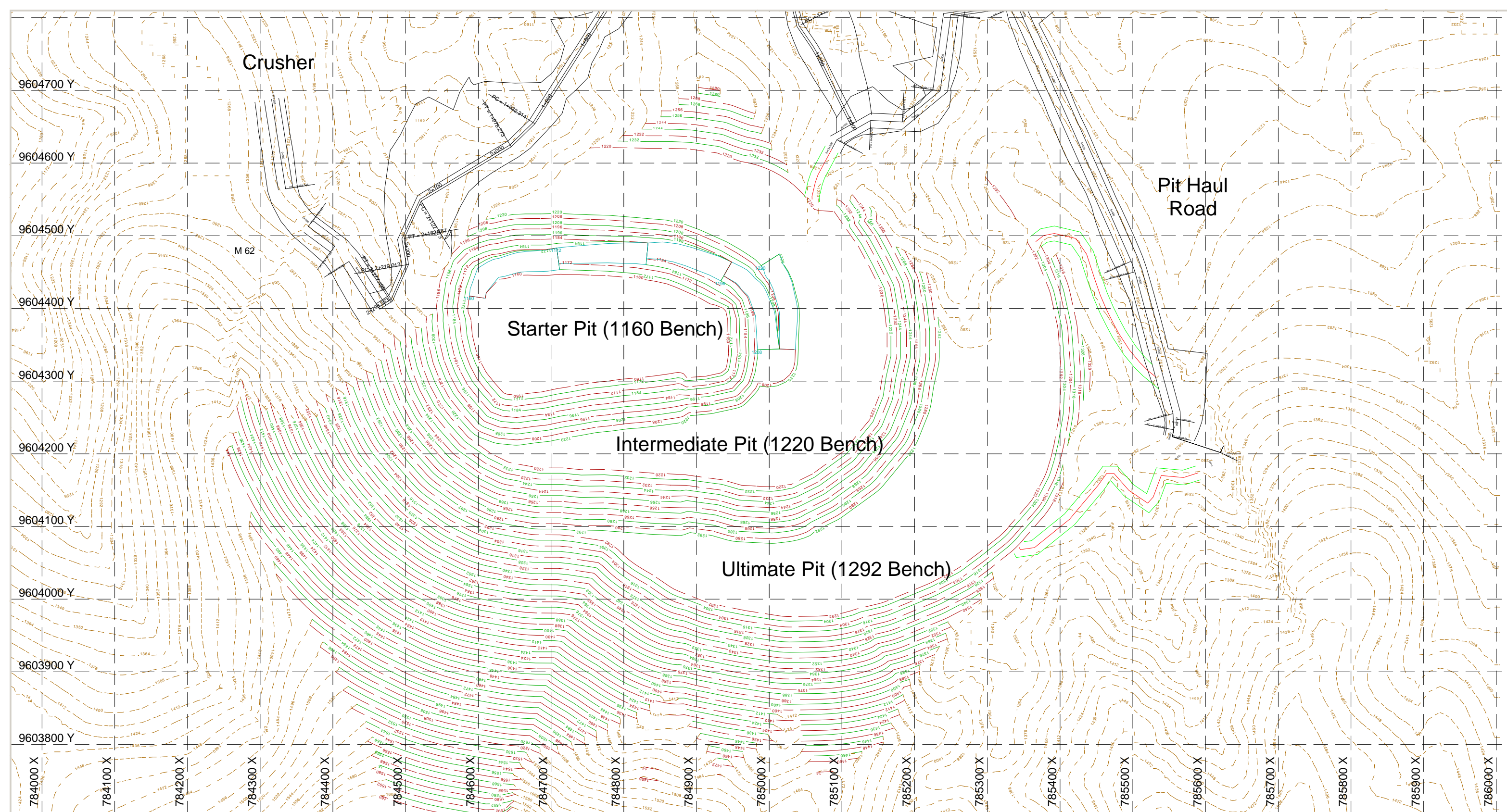
Drawing: D-142314-100-K-0006
Date: October 19, 2004-Revised for New Crusher Point Feb 28, 2005
Year: Year 5 (Five)



AMEC Americas Limited
Mining and Metals Consulting
Vancouver, Canada

Units: metres Scale: 1:5000 Contours: 12 metres





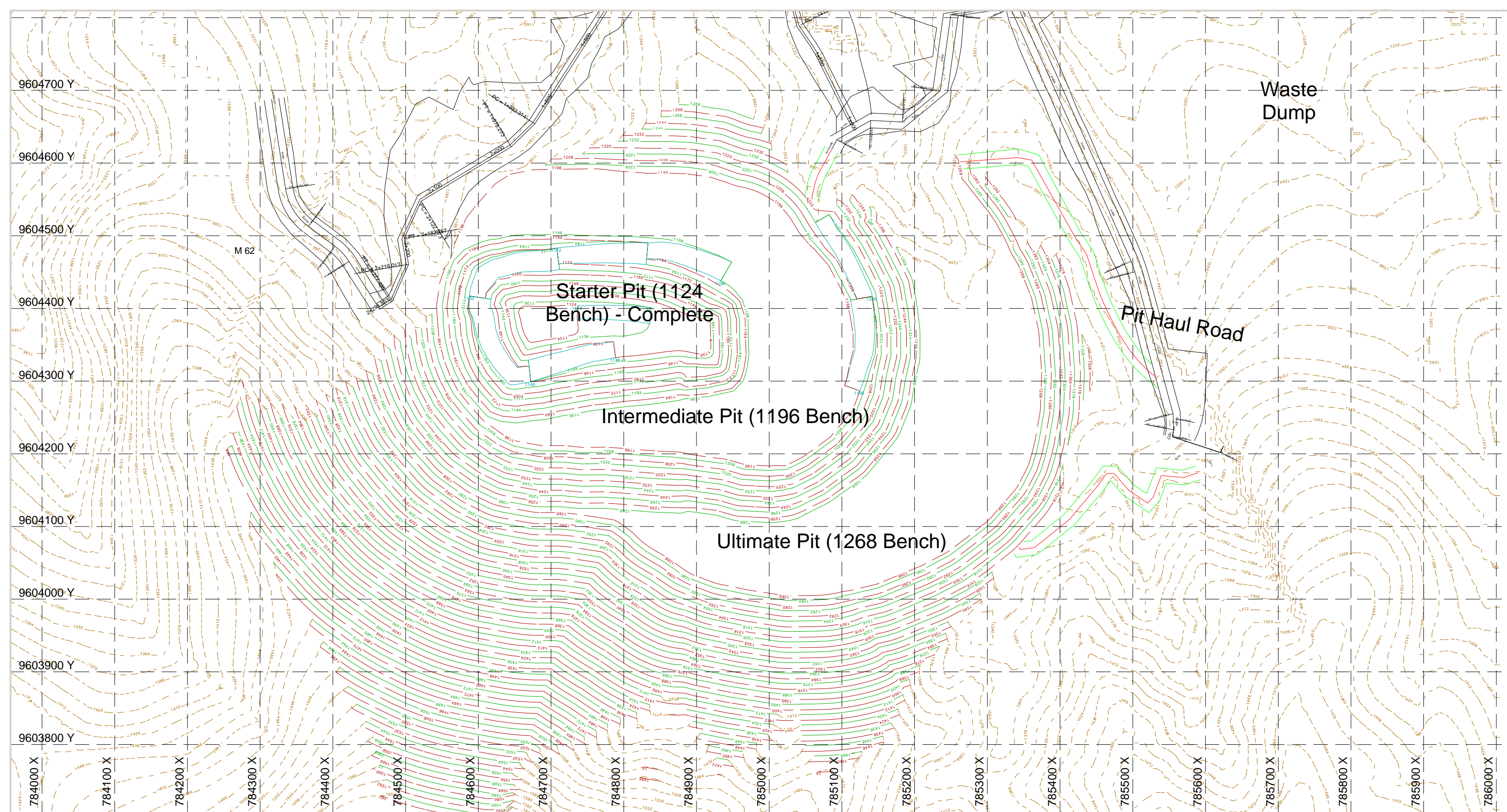
Corriente Mirador Project

Drawing: D-142314-100-K-0007
 Date: October 19, 2004-Revised for New Crusher Point Feb 28, 2005
 Year: Year 6 (Six)

Units: metres Scale: 1:5000 Contours: 12 metres



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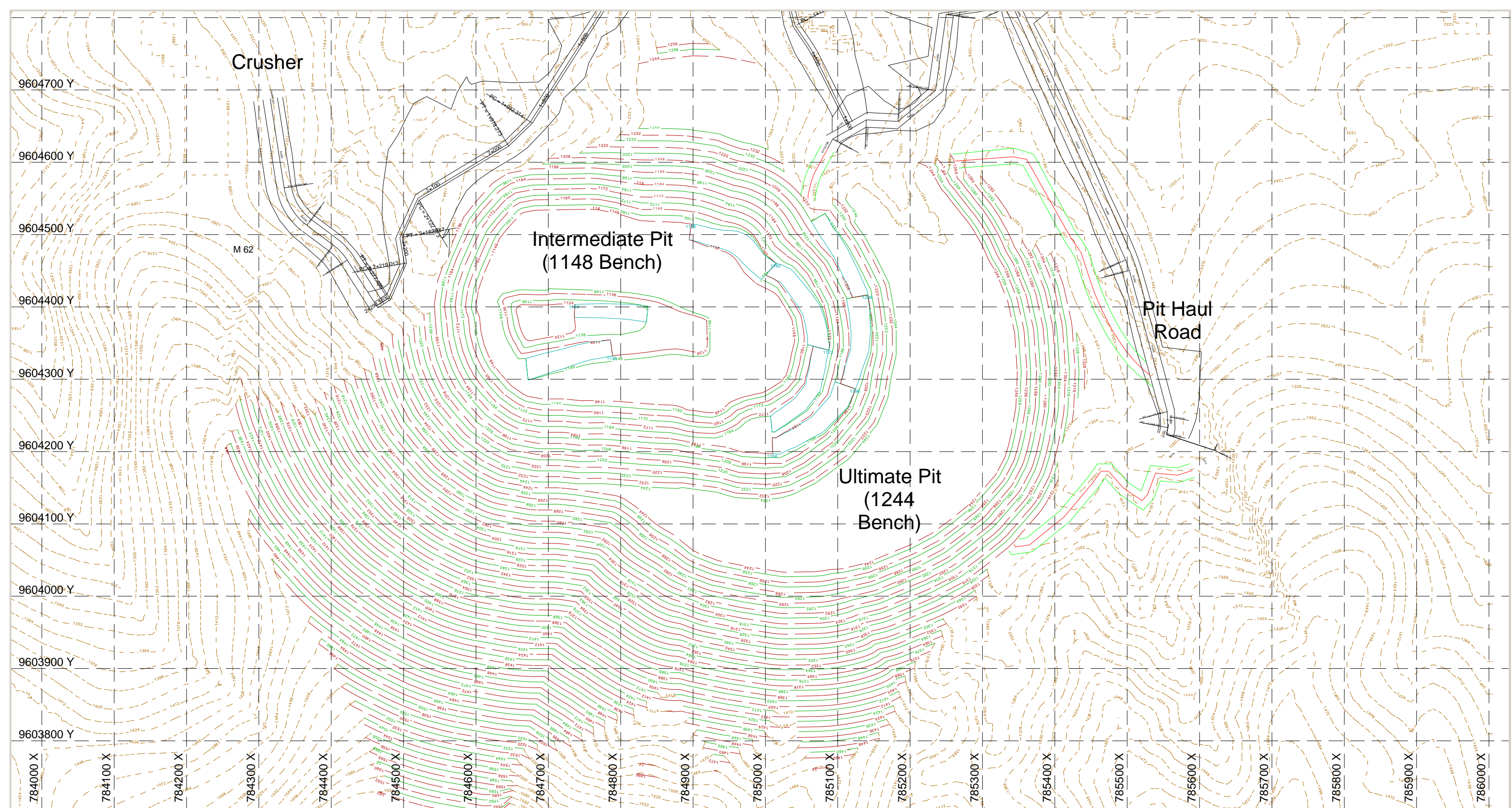
Corriente Mirador Project

Drawing: D-142314-100-K-0008
 Date: October 19, 2004-Revised for New Crusher Point Feb 28, 2005
 Year: Year 7 (Seven)

Units: metres Scale: 1:5000 Contours: 12 metres



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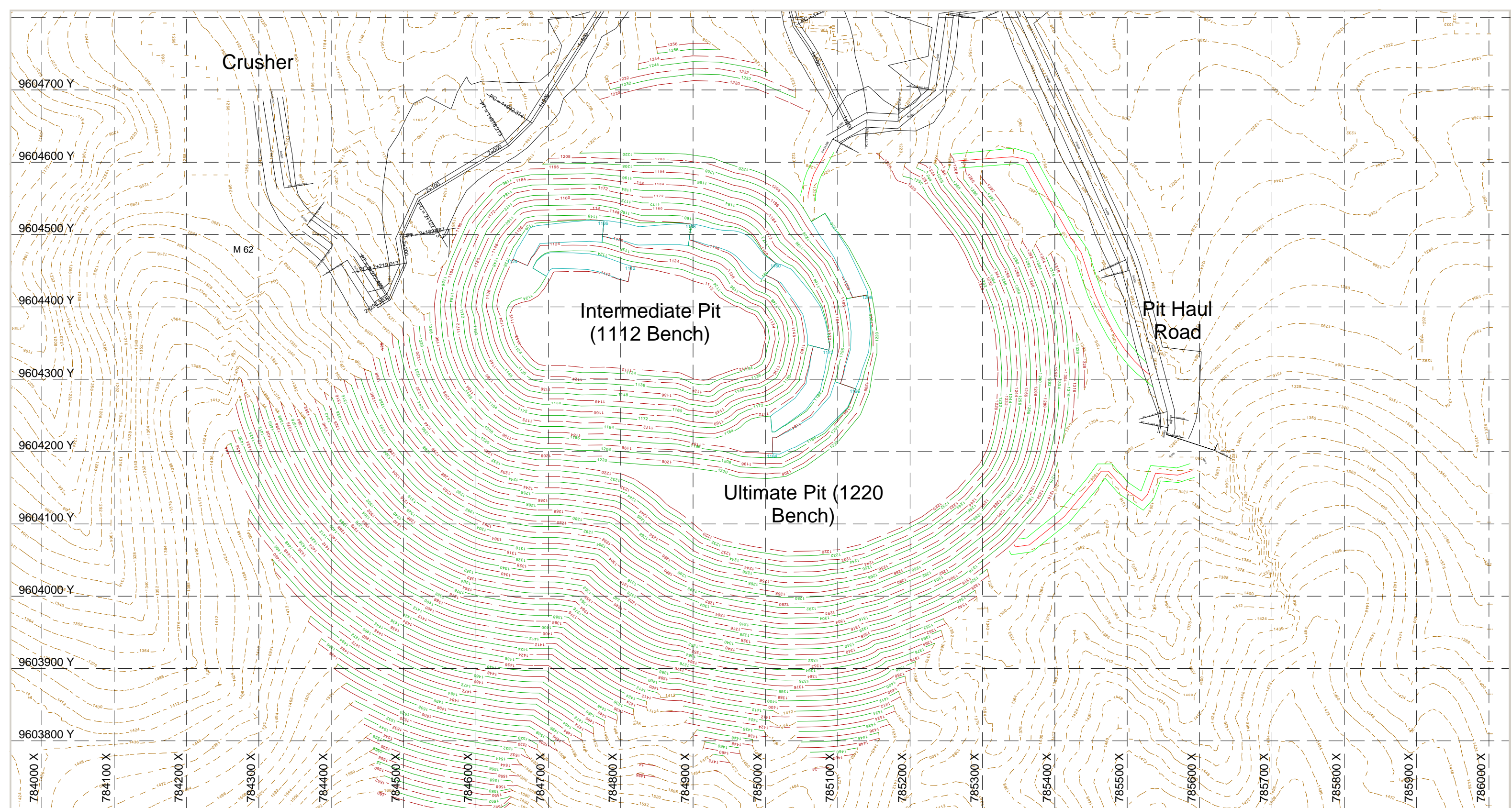
Corriente Mirador Project

Drawing: D-142314-100-K-0009
 Date: October 19, 2004-Revised for New Crusher Point Feb 28, 2005
 Year: Year 8 (Eight)

Units: metres Scale: 1:5000 Contours: 12 metres



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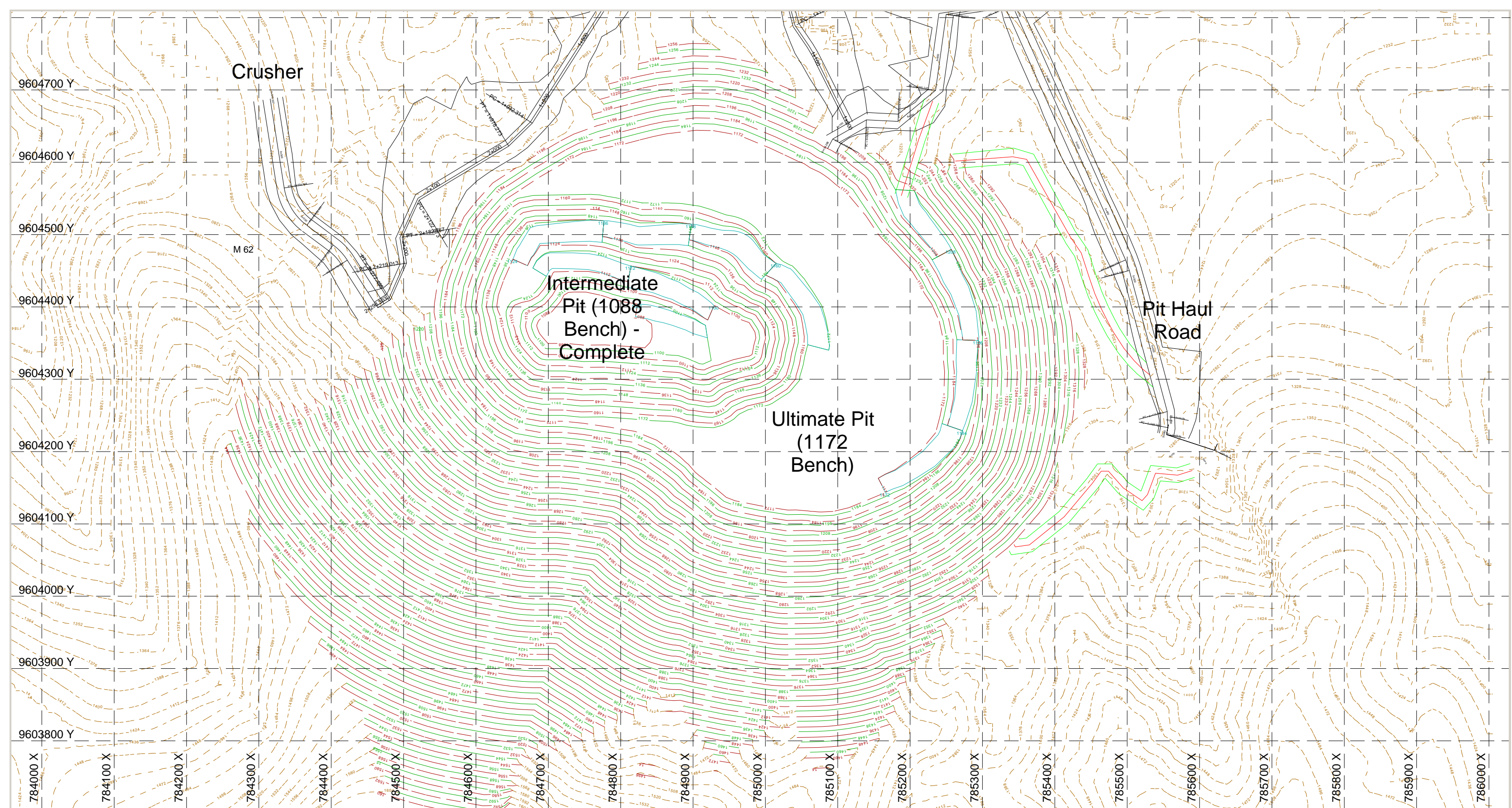
Corriente Mirador Project

Drawing: D-142314-100-K-0010
 Date: October 19, 2004-Revised for New Crusher Point Feb 28, 2005
 Year: Year 9 (Nine)



AMEC Americas Limited
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Units: metres Scale: 1:5000 Contours: 12 metres



Corriente Mirador Project

Drawing: D-142314-100-K-0011
 Date: October 19, 2004-Revised for New Crusher Point Feb 28, 2005
 Year: Year 10 (Ten)



Units: metres Scale: 1:5000 Contours: 12 metres



AMEC Americas Limited
 Mining and Metals Consulting
 Vancouver, Canada

Crusher

M 62

Ultimate Pit
(1124
Bench)

Pit Haul
Road

9604700 Y
9604600 Y
9604500 Y
9604400 Y
9604300 Y
9604200 Y
9604100 Y
9604000 Y
9603900 Y
9603800 Y

784000 X 784100 X 784200 X 784300 X 784400 X 784500 X 784600 X 784700 X 784800 X 784900 X 785000 X 785100 X 785200 X 785300 X 785400 X 785500 X 785600 X 785700 X 785800 X 785900 X 786000 X

Corriente Mirador Project

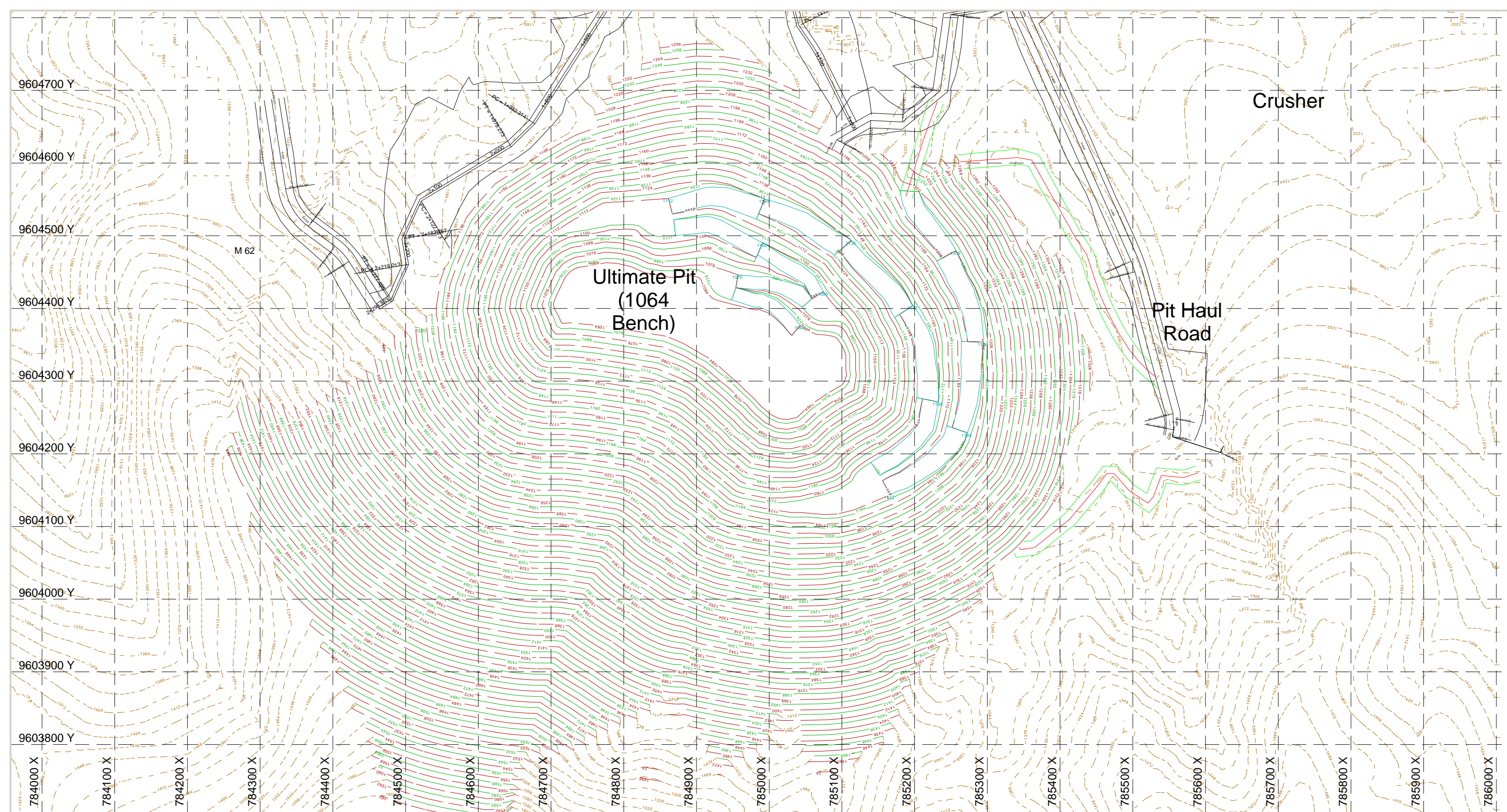
Drawing: D-142314-100-K-0012
Date: October 19, 2004-Revised for New Crusher Point Feb 28, 2005
Year: Year 11 (Eleven)



Units: metres Scale: 1:5000 Contours: 12 metres



AMEC Americas Limited
Mining and Metals Consulting
Vancouver, Canada



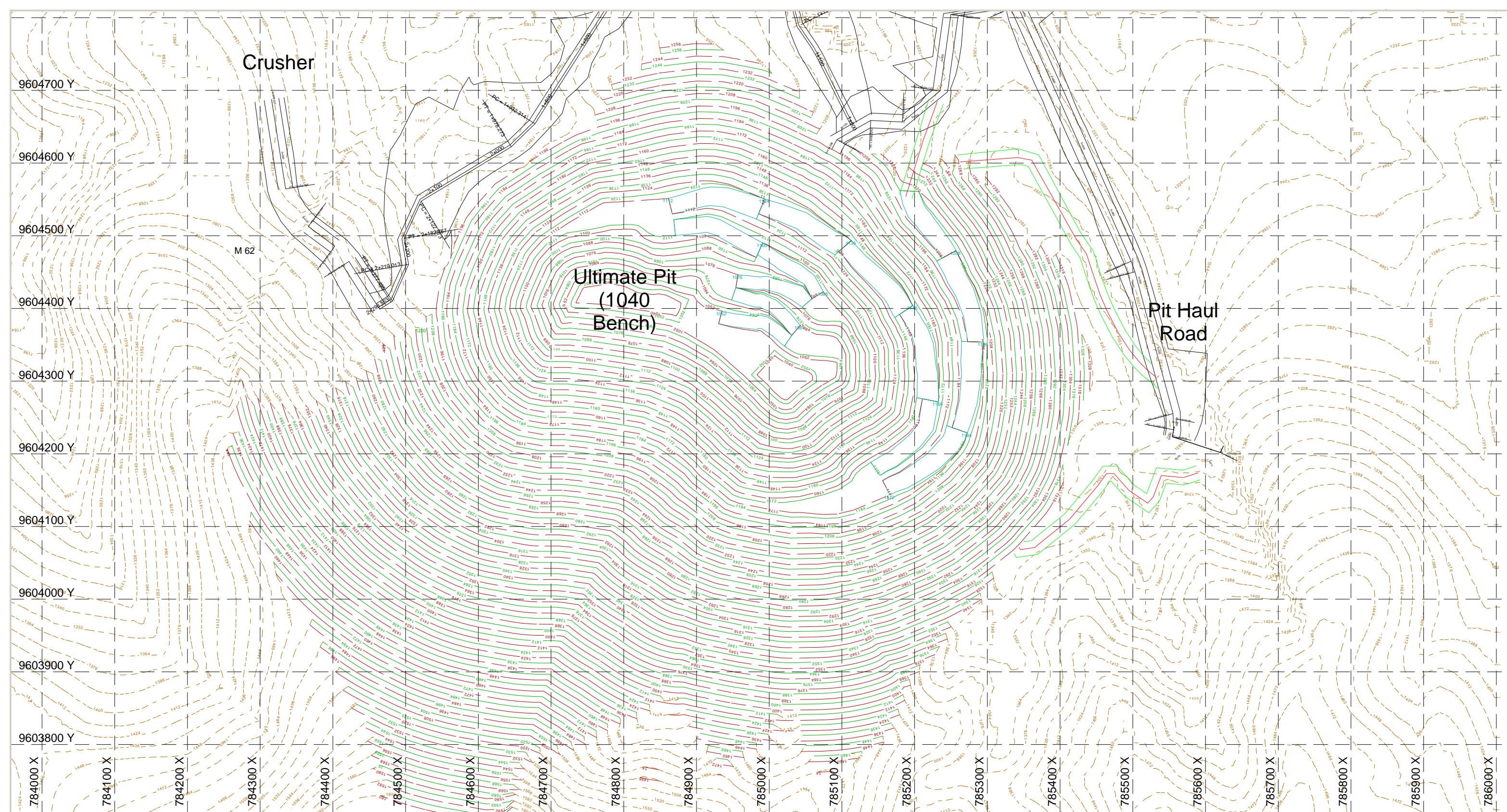
Corriente Mirador Project

Drawing: D-142314-100-K-0013
 Date: October 19, 2004-Revised for New Crusher Point Feb 28, 2005
 Year: Year 12 (Twelve)



AMEC Americas Limited
 Mining and Metals Consulting
 Vancouver, Canada

Units: metres Scale: 1:5000 Contours: 12 metres



Corriente Mirador Project

Drawing: D-142314-100-K-0014
 Date: October 19, 2004-Revised for New Crusher Point Feb 28, 2005
 Year: Year 13 (Thirteen)



AMEC Americas Limited
 Mining and Metals Consulting
 Vancouver, Canada

Units: metres Scale: 1:5000 Contours: 12 metres



EQUIPMENT NUMBER	EQUIPMENT TYPE	DESCRIPTION	REFERENCE DRAWING	CAPACITY	SIZE	NO. OF UNITS	NO. OF OPERATING UNITS	POWER kW	VFD (Y/N)	REMARKS	REV
AREA: 210 CRUSHING PLANT											
210 - AR - 001	AIR RECEIVER	CRUSHER SERVICE	A1-142314-100-N-0001	0.5 m3 , 1380 kPa	610 mm dia. x 1.75 m	1	1	---	N		
210 - BI - 001	DUMP POCKET	CRUSHER	A1-142314-100-N-0001	150 tonnes		1	1	---	N		
210 - BL - 003	BLOWER	CRUSHER SEAL AIR	A1-142314-100-N-0001			1	1	0.75	N		
210 - CH - 001	CHUTE	CRUSHER SURGE POCKET	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
210 - CH - 002	CHUTE	CRUSHER APRON FEEDER HEAD	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
210 - CH - 003	CHUTE	CRUSHER APRON FEEDER DRIBBLE	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
210 - CH - 004	CHUTE	CRUSHER APRON FEEDER SKIRT	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
210 - CH - 005	CHUTE	CRUSHER APRON FEEDER DISCHARGE	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
210 - CH - 006	CHUTE	CRUSHER CONVEYOR DISCHARGE	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
210 - CK - 001	CRANE	CRUSHER OVERHEAD TRAVELLING	A1-142314-100-N-0001	40 / 5 tonnes	10 m span, 32 m lift	1	1	92.1	N	Top Running Double Girder	
210 - CO - 002	COMPRESSOR	CRUSHER SERVICE AIR	A1-142314-100-N-0001	314 Am3/hr @ 862 kPa		1	1	29.8	N	Rotary Screw, Air-cooled	
210 - CR - 001	CRUSHER	GYRATORY	A1-142314-100-N-0001	1,500 mtph	1066.8 mm x 1651 mm (42" x 65")	1	1	372.8	N		
210 - CV - 001	CONVEYOR	CRUSHER DISCHARGE	A1-142314-100-N-0001		1525 mm x 26.1 m	1	1	14.9	N		
210 - DR - 003	DRYER	CRUSHER SERVICE AIR	A1-142314-100-N-0001	335 Am3/hr @ 1,600 kPa		1	1	---	N	Refrigerated, Air-cooled	
210 - FE - 001	APRON FEEDER	CRUSHER DISCHARGE	A1-142314-100-N-0001	1,500 mtph	1370 mm x 6.8 m	1	1	44.7	Y		
210 - HX - 001	COOLING SYSTEM	CRUSHER LUBE OIL	A1-142314-100-N-0001			1	1	---	N		
210 - LU - 001	CRUSHER LUBE UNIT	OIL PUMPING	A1-142314-100-N-0001			1	1	50	N		
210 - MD - 001	METAL DETECTOR	CRUSHER DISCHARGE CONVEYOR	A1-142314-100-N-0001			1	1	---	N		
210 - PU - 003	PUMP	CRUSHER RECLAIM TUNNEL PORTABLE SUMP	A1-142314-100-N-0001		4"	1	1	18.6	N		
210 - PU - 130	PUMP	CRUSHER AREA POTABLE WATER	A1-142314-100-N-0008		2 x 1.5	1	1	3.7	N		
210 - PU - 131	PUMP	CRUSHER AREA POTABLE WATER - STANDBY	A1-142314-100-N-0008		2 x 1.5	1	1	3.7	N		
210 - RB - 001	ROCK BREAKER	CRUSHER DUMP POCKET	A1-142314-100-N-0001	5,500 ft. lb class		1	1	74.6 / 0.37	N		
210 - TK - 030	TANK	CRUSHER AREA POTABLE WATER	A1-142314-100-N-0008		2.4 m dia. x 2.4 m high	1	1	---	N	Carbon Steel Construction	
210 - TK - 031	TANK	CRUSHER AREA FIRE/FRESH WATER	A1-142314-100-N-0008	454 m3	9.6 m dia. x 10.6 m high	1	1	---	N	Carbon Steel Construction	C
210 - WS - 001	BELT SCALE	CRUSHER DISCHARGE CONVEYOR	A1-142314-100-N-0001			1	1	---	N		
210 - XX - 001	MISCELLANEOUS	CRUSHER DISCHARGE CONVEYOR BELT RIP DETECTOR	A1-142314-100-N-0001			1	1	---	N		
210 - XX - 003	MISCELLANEOUS	ECCENTRIC TROLLEY	A1-142314-100-N-0001			1	1	---	N		
210 - XX - 004	MISCELLANEOUS	RELINING FORMER	A1-142314-100-N-0001			1	1	---	N		
210 - XX - 005	MISCELLANEOUS	CRUSHER AREA POTABLE WATER TREATMENT PACKAGE	A1-142314-100-N-0008			1	1	---	N		



EQUIPMENT NUMBER	EQUIPMENT TYPE	DESCRIPTION	REFERENCE DRAWING	CAPACITY	SIZE	NO. OF UNITS	NO. OF OPERATING UNITS	POWER kW	VFD (Y/N)	REMARKS	REV
AREA: 215 COARSE ORE STORAGE AND RECLAIM											
215 - CH - 007	CHUTE	OVERLAND CONVEYOR NO.1 DISCHARGE	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
215 - CH - 008	CHUTE	OVERLAND CONVEYOR NO.2 DISCHARGE	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	D
215 - CH - 009	CHUTE	RECLAIM FEEDER HEAD #1	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
215 - CH - 010	CHUTE	RECLAIM FEEDER SKIRT #1	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
215 - CH - 011	CHUTE	RECLAIM FEEDER DRIBBLE #1	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
215 - CH - 012	CHUTE	RECLAIM FEEDER DISCHARGE #1	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
215 - CH - 013	CHUTE	RECLAIM FEEDER HEAD #2	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
215 - CH - 014	CHUTE	RECLAIM FEEDER SKIRT #2	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
215 - CH - 015	CHUTE	RECLAIM FEEDER DRIBBLE #2	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
215 - CH - 016	CHUTE	RECLAIM FEEDER DISCHARGE #2	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
215 - CH - 017	CHUTE	RECLAIM FEEDER HEAD #3	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
215 - CH - 018	CHUTE	RECLAIM FEEDER SKIRT #3	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
215 - CH - 019	CHUTE	RECLAIM FEEDER DRIBBLE #3	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
215 - CH - 020	CHUTE	RECLAIM FEEDER DISCHARGE #3	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	
215 - CH - 021	CHUTE	STOCKPILE RECLAIM CONVEYOR DISCHARGE	A1-142314-100-N-0001			1	1	---	N	CS / AR Plate	D
215 - CK - 002	MONORAIL HOIST	RECLAIM TUNNEL	A1-142314-100-N-0001	3.2 tonnes		1	1	3.7	N		
215 - CV - 002	CONVEYOR	OVERLAND NO.1	A1-142314-100-N-0001		1,219 mm x 4,000 m long x 430 m drop	1	1	1790	Y	By Westmar	D
215 - CV - 010	CONVEYOR	OVERLAND NO.2	A1-142314-100-N-0001		1,219 mm x 6,000 m long x 55 m lift	1	1	1864	Y	By Westmar	D
215 - CV - 011	CONVEYOR	MILL FEED NO.1	A1-142314-100-N-0001		1067 mm x 199 m long x 17.4 m lift	1	1	75	N		D
215 - CV - 003	CONVEYOR	MILL FEED NO.2	A1-142314-100-N-0001/2		1067 mm x 93.3 m long	1	1	44.7	N		D
215 - FA - 001	FAN	RECLAIM TUNNEL VENTILATION	A1-142314-100-N-0001			1	1	7.5	N		
215 - FE - 002	APRON FEEDER	RECLAIM #1	A1-142314-100-N-0001	400 mtp	1,219 mm x 7.2 m	1	1	44.7	Y		B
215 - FE - 003	APRON FEEDER	RECLAIM #2	A1-142314-100-N-0001	400 mtp	1,219 mm x 7.2 m	1	1	44.7	Y		B
215 - FE - 004	APRON FEEDER	RECLAIM #3	A1-142314-100-N-0001	400 mtp	1,219 mm x 7.2 m	1	1	44.7	Y		B
215 - MB - 002	MOBILE EQUIPMENT	STOCKPILE DOZER	A1-142314-100-N-0001			1	1	---	N		
215 - MB - 003	MOBILE EQUIPMENT	BOBCAT	A1-142314-100-N-0001			1	1	---	N		
215 - PU - 004	PUMP	RECLAIM TUNNEL SUMP	A1-142314-100-N-0001		6"	1	1	22.4	N		
215 - SP - 001	STOCKPILE	COARSE ORE	A1-142314-100-N-0001	25,000 tonnes live		1	1	---	N		B
215 - WS - 002	BELT SCALE	MILL FEED CONVEYOR	A1-142314-100-N-0001			1	1	---	N		
215 - XX - 002	MISCELLANEOUS	MILL FEED CONVEYOR BELT RIP DETECTOR	A1-142314-100-N-0001			1	1	---	N		



EQUIPMENT NUMBER	EQUIPMENT TYPE	DESCRIPTION	REFERENCE DRAWING	CAPACITY	SIZE	NO. OF UNITS	NO. OF OPERATING UNITS	POWER kW	VFD (Y/N)	REMARKS	REV
AREA: 220 GRINDING											
220 - BI - 002	BIN	BALL MILL GRINDING BALLS	A1-142314-100-N-0002			1	1	---	N	Concrete	
220 - BI - 003	BUCKET	BALL MILL GRINDING BALLS	A1-142314-100-N-0002			1	1	---	N		
220 - CH - 025	CHUTE	SAG MILL FEED	A1-142314-100-N-0002			1	1	---	N	CS / AR Plate	
220 - CH - 026	CHUTE	SAG MILL FEED RETRACTABLE	A1-142314-100-N-0002			1	1	---	N	CS / AR Plate	
220 - CH - 027	CHUTE	SAG MILL DISCHARGE	A1-142314-100-N-0002			1	1	---	N	CS / AR Plate	B
220 - CH - 028	CHUTE	SAG MILL DISCHARGE SCREEN OVERSIZE	A1-142314-100-N-0002			1	1	---	N	CS / AR Plate	B
220 - CH - 029	CHUTE	SAG MILL OVERSIZE CONVEYOR TRAMP METAL	A1-142314-100-N-0002			1	1	---	N	CS / AR Plate	B
220 - CH - 030	CHUTE	SAG MILL OVERSIZE TRANSFER CONVEYOR DISCHARGE	A1-142314-100-N-0002			1	1	---	N	CS / AR Plate	B
220 - CH - 031	CHUTE	SAG MILL OVERSIZE TRANSFER CONVEYOR TRAMP METAL	A1-142314-100-N-0002			1	1	---	N	CS / AR Plate	B
220 - CH - 032	CHUTE	CONE CRUSHER FEED	A1-142314-100-N-0002			1	1	---	N	CS / AR Plate	B
220 - CH - 033	CHUTE	CONE CRUSHER BYPASS	A1-142314-100-N-0002			1	1	---	N	CS / AR Plate	B
220 - CH - 034	CHUTE	CONE CRUSHER DISCHARGE	A1-142314-100-N-0002			1	1	---	N	CS / AR Plate	B
220 - CH - 035	CHUTE	CONE CRUSHER DISCHARGE CONVEYOR	A1-142314-100-N-0002			1	1	---	N	CS / AR Plate	B
220 - CH - 036	CHUTE	PEBBLE STOCKPILE HYDRAULIC DIVERTER	A1-142314-100-N-0002			1	1	---	N	CS / AR Plate	B
220 - CH - 037	CHUTE	PEBBLE STOCKPILE FEED	A1-142314-100-N-0002			1	1	---	N	CS / AR Plate	B
220 - CH - 038	CHUTE	PEBBLE RECYCLE	A1-142314-100-N-0002			1	1	---	N	CS / AR Plate	B
220 - CH - 039	CHUTE	CONE CRUSHER TRANSFER	A1-142314-100-N-0002			1	1	---	N	CS / AR Plate	B
220 - CH - 040	CHUTE	BALL MILL DISCHARGE	A1-142314-100-N-0002			1	1	---	N	CS / AR Plate	B
220 - CK - 003	CRANE	MILL AREA OVERHEAD	A1-142314-100-N-0002	50 / 5 tonnes	35 m span	1	1	77.2	N	Top Running Double Girder	
220 - CK - 004	JIB CRANE	BOLT REMOVAL TOOL	A1-142314-100-N-0002			1	1	3.7	N		
220 - CR - 002	CRUSHER	PEBBLE CONE	A1-142314-100-N-0002		HP500	1	1	375	N		B
220 - CV - 004	CONVEYOR	SAG MILL OVERSIZE TRANSFER	A1-142314-100-N-0002		912 mm x 68 m	1	1	22.4	N		B
220 - CV - 005	CONVEYOR	CONE CRUSHER FEED SHUTTLE	A1-142314-100-N-0002		912 mm x 7.9 m	1	1	11.2	N		B
220 - CV - 006	CONVEYOR	CONE CRUSHER DISCHARGE	A1-142314-100-N-0002		912 mm x 52.7 m	1	1	22.4	N		B
220 - CV - 007	CONVEYOR	CONE CRUSHER DISCHARGE TRANSFER	A1-142314-100-N-0002		912 mm x 66.6 m	1	1	22.4	N		B
220 - CY - 001	CYCLONES	GRINDING	A1-142314-100-N-0002		650 mm dia. x 13 cyclones (11 op, 2 stdby)	1	1	---	N		B
220 - FA - 002	FAN	SAG MILL MOTOR COOLING	A1-142314-100-N-0002	20,000 cfm @ 5"		1	1	22.4	N		
220 - FA - 004	FAN	BALL MILL MOTOR COOLING	A1-142314-100-N-0002	20,000 cfm @ 5"		1	1	22.4	N		
220 - FE - 005	FEEDER	SAG MILL BALL FEED ROTARY	A1-142314-100-N-0002			1	1	3	N		
220 - HO - 001	HOPPER	SAG MILL BALL FEED	A1-142314-100-N-0002			1	1	---	N		
220 - HO - 002	HOPPER	BALL MILL BALL FEED	A1-142314-100-N-0002			1	1	---	N		
220 - ID - 001	INCHING DRIVE	MILL	A1-142314-100-N-0002			1	1	149	N		
220 - LH - 001	LINER HANDLER	MILL	A1-142314-100-N-0002	3,500kg	2.35 m H x 2.60 m W, 18.5 m extend, 11.74 m retract	1	1	44.7	N	RT 4X2, Seven (7) Axis Mill Relining Machine	



EQUIPMENT NUMBER	EQUIPMENT TYPE	DESCRIPTION	REFERENCE DRAWING	CAPACITY	SIZE	NO. OF UNITS	NO. OF OPERATING UNITS	POWER kW	VFD (Y/N)	REMARKS	REV
220 - LU - 002	LUBE UNIT	SAG MILL GEAR SPRAY	A1-142314-100-N-0002			1	1	---	N		
220 - LU - 003	LUBE UNIT	SAG MILL TRUNNION HIGH PRESSURE	A1-142314-100-N-0002			1	1	55.9	N		
220 - LU - 004	LUBE UNIT	SAG MILL TRUNNION LOW PRESSURE	A1-142314-100-N-0002			1	1	7.5	N		
220 - LU - 005	LUBE UNIT	BALL MILL TRUNNION HIGH PRESSURE	A1-142314-100-N-0002			1	1	55.9	N		
220 - LU - 006	LUBE UNIT	BALL MILL TRUNNION LOW PRESSURE	A1-142314-100-N-0002			1	1	7.5	N		
220 - LU - 010	LUBE UNIT	CONE CRUSHER	A1-142314-100-N-0002			1	1		N		B
220 - MD - 002	METAL DETECTOR	CONE CRUSHER FEED CONVEYOR	A1-142314-100-N-0002			1	1	---	N		B
220 - MM - 001	MILL	SAG	A1-142314-100-N-0002		9.75 m dia x 4.34 m EGL (32 ft. dia. x 14.25 ft EGL)	1	1	8203	Y		
220 - MM - 002	MILL	BALL	A1-142314-100-N-0002		7.32 m dia. x 10.67 m EGL (24 ft. dia. x 35 ft EGL)	1	1	9321	N		B
220 - MS - 001	MAGNET	BALL LOADING	A1-142314-100-N-0002			1	1	11.2	N		
220 - MS - 002	MAGNET	SAG MILL OVERSIZE TRAMP METAL SELF CLEANING	A1-142314-100-N-0002			1	1	11.2	N		B
220 - MS - 003	MAGNET	SAG MILL OVERSIZE TRANSFER TRAMP METAL STATIONARY	A1-142314-100-N-0002			1	1	11.2	N		B
220 - PB - 002	PUMPBOX	CYCLONE FEED	A1-142314-100-N-0002			1	1	---	N	CS / RL	
220 - PU - 007	PUMP	CYCLONE FEED	A1-142314-100-N-0002	5,850 m3/hr @ 27.4 m TDH	XM 700	1	1	1118.6	Y		B
220 - PU - 008	PUMP	CYCLONE FEED - STANDBY	A1-142314-100-N-0002	5,850 m3/hr @ 27.4 m TDH	XM 700	1	0	1118.6	Y		B
220 - PU - 009	PUMP	GRINDING AREA SUMP	A1-142314-100-N-0002		8"	1	1	29.8	N		
220 - SN - 001	SCREEN	SAG MILL DISCHARGE	A1-142314-100-N-0002		8' x 24'	1	1	56	N		B
220 - SN - 002	SCREEN	SAG MILL DISCHARGE - SPARE	A1-142314-100-N-0002		8' x 24'	1	0	56	N		B
220 - SP - 002	STOCKPILE	REJECTS	A1-142314-100-N-0002			1	1	---	N		
220 - WS - 004	BELT SCALE	SAG MILL OVERSIZE TRANSFER	A1-142314-100-N-0002			1	1	---	N		B
220 - XX - 008	MISCELLANEOUS	MILL JACKING SYSTEM	A1-142314-100-N-0002			1	1	---	N		
220 - XX - 009	MISCELLANEOUS	BOLT REMOVAL TOOL	A1-142314-100-N-0002			1	1	44.7	N		
220 - XX - 010	MISCELLANEOUS	SAG MILL LIFTING CRADLE	A1-142314-100-N-0002			1	1	---	N		
220 - XX - 011	MISCELLANEOUS	BALL MILL LIFTING CRADLE	A1-142314-100-N-0002			1	1	---	N		



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AREA: 230 FLOTATION AND REGRIND											
230 - BI - 005	BUCKET	REGRIND MILL GRINDING BALLS	A1-142314-100-N-0004			1	1	---	N		
230 - BX - 001	BOX	ROUGHER DISTRIBUTION	A1-142314-100-N-0003			1	1	---	N		
230 - BX - 002	BOX	1ST CLEANER DISTRIBUTION	A1-142314-100-N-0005			1	1	---	N		E
230 - BX - 003	BOX	ROUGHER TAILINGS	A1-142314-100-N-0003			1	1	---	N		E
230 - BX - 004	BOX	CLEANER TAILINGS	A1-142314-100-N-0005			1	1	---	N		E
230 - CK - 005	CRANE	FLOTATION AREA OVERHEAD	A1-142314-100-N-0003	10 tonne		1	1	22.4	N	Top Running Double Girder	
230 - CY - 002	CYCLONES	REGRIND	A1-142314-100-N-0004		152 mm dia. x 28 cyclones (24 op, 4 stdby)	1	1	---	N		B
230 - FC - 001	FLOTATION CELL	ROUGHER/SCAVENGER #1	A1-142314-100-N-0003	100 m3		1	1	112	N		B
230 - FC - 002	FLOTATION CELL	ROUGHER/SCAVENGER #2	A1-142314-100-N-0003	100 m3		1	1	112	N		B
230 - FC - 003	FLOTATION CELL	ROUGHER/SCAVENGER #3	A1-142314-100-N-0003	100 m3		1	1	112	N		B
230 - FC - 004	FLOTATION CELL	ROUGHER/SCAVENGER #4	A1-142314-100-N-0003	100 m3		1	1	112	N		B
230 - FC - 005	FLOTATION CELL	ROUGHER/SCAVENGER #5	A1-142314-100-N-0003	100 m3		1	1	112	N		B
230 - FC - 006	FLOTATION CELL	ROUGHER/SCAVENGER #6	A1-142314-100-N-0003	100 m3		1	1	112	N		B
230 - FC - 007	FLOTATION CELL	ROUGHER/SCAVENGER #7	A1-142314-100-N-0003	100 m3		1	1	112	N		B
230 - FC - 008	FLOTATION CELL	ROUGHER/SCAVENGER #8	A1-142314-100-N-0003	100 m3		1	1	112	N		B
230 - FC - 009	FLOTATION CELL	ROUGHER/SCAVENGER #9	A1-142314-100-N-0003	100 m3		1	1	112	N		B
230 - FC - 010	FLOTATION CELL	ROUGHER/SCAVENGER #10	A1-142314-100-N-0003	100 m3		1	1	112	N		B
230 - FC - 011	FLOTATION CELL	ROUGHER/SCAVENGER #11	A1-142314-100-N-0003	100 m3		1	1	112	N		B
230 - FC - 012	FLOTATION CELL	ROUGHER/SCAVENGER #12	A1-142314-100-N-0003	100 m3		1	1	112	N		B
230 - FC - 013	FLOTATION CELL	ROUGHER/SCAVENGER #13	A1-142314-100-N-0003	100 m3		1	1	112	N		B
230 - FC - 014	FLOTATION CELL	ROUGHER/SCAVENGER #14	A1-142314-100-N-0003	100 m3		1	1	112	N		B
230 - FC - 015	FLOTATION CELL	1ST CLEANER #1	A1-142314-100-N-0005	50 m3		1	1	75	N		B
230 - FC - 016	FLOTATION CELL	1ST CLEANER #2	A1-142314-100-N-0005	50 m3		1	1	75	N		B
230 - FC - 017	FLOTATION CELL	1ST CLEANER #3	A1-142314-100-N-0005	50 m3		1	1	75	N		B
230 - FC - 018	FLOTATION CELL	1ST CLEANER #4	A1-142314-100-N-0005	50 m3		1	1	75	N		B
230 - FC - 019	FLOTATION CELL	1ST CLEANER #5	A1-142314-100-N-0005	50 m3		1	1	75	N		B
230 - FC - 020	FLOTATION CELL	1ST CLEANER #6	A1-142314-100-N-0005	50 m3		1	1	75	N		B
230 - FC - 021	FLOTATION CELL	1ST CLEANER #7	A1-142314-100-N-0005	50 m3		1	1	75	N		B
230 - FC - 022	FLOTATION CELL	1ST CLEANER #8	A1-142314-100-N-0005	50 m3		1	1	75	N		B
230 - FC - 023	FLOTATION CELL	1ST CLEANER SCAVENGER #1	A1-142314-100-N-0005	50 m3		1	1	75	N		B
230 - FC - 024	FLOTATION CELL	1ST CLEANER SCAVENGER #2	A1-142314-100-N-0005	50 m3		1	1	75	N		B
230 - FC - 025	FLOTATION CELL	1ST CLEANER SCAVENGER #3	A1-142314-100-N-0005	50 m3		1	1	75	N		B
230 - FC - 026	FLOTATION CELL	1ST CLEANER SCAVENGER #4	A1-142314-100-N-0005	50 m3		1	1	75	N		B



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230 - FC - 027	FLOTATION CELL	1ST CLEANER SCAVENGER #5	A1-142314-100-N-0005	50 m3		1	1	75	N		B
230 - FC - 028	FLOTATION CELL	1ST CLEANER SCAVENGER #6	A1-142314-100-N-0005	50 m3		1	1	75	N		B
230 - FC - 029	FLOTATION CELL	1ST CLEANER SCAVENGER #7	A1-142314-100-N-0005	50 m3		1	1	75	N		B
230 - FC - 030	FLOTATION CELL	1ST CLEANER SCAVENGER #8	A1-142314-100-N-0005	50 m3		1	1	75	N		B
230 - FC - 031	FLOTATION CELL	2ND CLEANER #1	A1-142314-100-N-0006	5 m3		1	1	15	N		B
230 - FC - 032	FLOTATION CELL	2ND CLEANER #2	A1-142314-100-N-0006	5 m3		1	1	15	N		B
230 - FC - 033	FLOTATION CELL	2ND CLEANER #3	A1-142314-100-N-0006	5 m3		1	1	15	N		B
230 - FC - 034	FLOTATION CELL	2ND CLEANER #4	A1-142314-100-N-0006	5 m3		1	1	15	N		B
230 - FC - 035	FLOTATION CELL	2ND CLEANER #5	A1-142314-100-N-0006	5 m3		1	1	15	N		B
230 - FC - 036	FLOTATION CELL	2ND CLEANER #6	A1-142314-100-N-0006	5 m3		1	1	15	N		B
230 - FC - 037	FLOTATION CELL	2ND CLEANER #7	A1-142314-100-N-0006	5 m3		1	1	15	N		B
230 - FC - 041	FLOTATION CELL	3RD CLEANER #1	A1-142314-100-N-0006	5 m3		1	1	15	N		B
230 - FC - 042	FLOTATION CELL	3RD CLEANER #2	A1-142314-100-N-0006	5 m3		1	1	15	N		B
230 - FC - 043	FLOTATION CELL	3RD CLEANER #3	A1-142314-100-N-0006	5 m3		1	1	15	N		B
230 - FC - 044	FLOTATION CELL	3RD CLEANER #4	A1-142314-100-N-0006	5 m3		1	1	15	N		B
230 - FC - 045	FLOTATION CELL	3RD CLEANER #5	A1-142314-100-N-0006	5 m3		1	1	15	N		B
230 - HO - 003	HOPPER	REGRIND MILLS BALL FEED	A1-142314-100-N-0004			1	1	---	N		
230 - HO - 004	HOPPER	REGRIND MILL CHARGE #1	A1-142314-100-N-0004			1	1	---	N		
230 - HO - 005	HOPPER	REGRIND MILL CHARGE #2	A1-142314-100-N-0004			1	1	---	N		
230 - LU - 007	LUBE UNIT	REGRIND MILL #1	A1-142314-100-N-0004			1	1	7.8	N		
230 - LU - 008	LUBE UNIT	REGRIND MILL #2	A1-142314-100-N-0004			1	1	7.8	N		
230 - MM - 003	MILL	REGRIND TOWER #1	A1-142314-100-N-0004		VTM - 1000	1	1	745	N	Vertimils	
230 - MM - 004	MILL	REGRIND TOWER #2	A1-142314-100-N-0004		VTM - 1000	1	1	745	N	Vertimils	
230 - PB - 003	PUMPBOX	REGRIND CYCLONE FEED	A1-142314-100-N-0004			1	1	---	N	Concrete	
230 - PB - 004	PUMPBOX	1ST CLEANER FEED	A1-142314-100-N-0004			1	1	---	N	CS / RL	
230 - PB - 005	PUMPBOX	1ST CLEANER CONCENTRATE	A1-142314-100-N-0005			1	1	---	N	CS / RL	
230 - PB - 006	PUMPBOX	2ND CLEANER CONCENTRATE	A1-142314-100-N-0006			1	1	---	N	CS / RL	
230 - PB - 007	PUMPBOX	FINAL CONCENTRATE	A1-142314-100-N-0006			1	1	---	N	CS / RL	
230 - PU - 010	PUMP	REGRIND CYCLONE FEED	A1-142314-100-N-0004	1,280 m3/hr @ 27.2 m TDH	HR 300	1	1	223.7	N		B
230 - PU - 011	PUMP	REGRIND CYCLONE FEED - STANDBY	A1-142314-100-N-0004	1,280 m3/hr @ 27.2 m TDH	HR 300	1	0	223.7	N		B
230 - PU - 012	PUMP	REGRIND RECIRCULATION	A1-142314-100-N-0004		250 mm	1	1	74.6	N		B
230 - PU - 013	PUMP	REGRIND RECIRCULATION	A1-142314-100-N-0004		250 mm	1	1	74.6	N		B
230 - PU - 014	PUMP	REGRIND MILL AREA SUMP	A1-142314-100-N-0004		6"	1	1	22.4	N		
230 - PU - 015	PUMP	1ST CLEANER FEED	A1-142314-100-N-0004	1,040 m3/hr @ 18 m TDH	HR 250	1	1	93.2	N		B



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230 - PU - 016	PUMP	1ST CLEANER FEED - STANDBY	A1-142314-100-N-0004	1,040 m3/hr @ 18 m TDH	HR 250	1	0	93.2	N		B
230 - PU - 017	PUMP	1ST CLEANER CONCENTRATE	A1-142314-100-N-0005	370 m3/hr @ 9 m TDH	6 x 4	1	1	18.6	Y		B
230 - PU - 018	PUMP	1ST CLEANER CONCENTRATE - STANDBY	A1-142314-100-N-0005	370 m3/hr @ 9 m TDH	6 x 4	1	0	18.6	Y		B
230 - PU - 019	PUMP	2ND CLEANER CONCENTRATE	A1-142314-100-N-0006	340 m3/hr @ 9 m TDH	6 x 4	1	1	18.6	Y		B
230 - PU - 020	PUMP	2ND CLEANER CONCENTRATE - STANDBY	A1-142314-100-N-0006	340 m3/hr @ 9 m TDH	6 x 4	1	0	18.6	Y		B
230 - PU - 021	PUMP	FINAL CONCENTRATE	A1-142314-100-N-0006	240 m3/hr @ 9 m TDH	6 x 4	1	1	14.9	Y		B
230 - PU - 022	PUMP	FINAL CONCENTRATE - STANDBY	A1-142314-100-N-0006	240 m3/hr @ 9 m TDH	6 x 4	1	0	14.9	Y		B
230 - PU - 023	PUMP	FINAL CLEANER AREA SUMP	A1-142314-100-N-0006		3"	1	1	11.2	N		
230 - PU - 024	PUMP	REGRIND RECIRCULATION - SPARE	A1-142314-100-N-0004		250 mm	1	0	74.6	N		B
230 - PU - 028	PUMP	ROUGHER CONCENTRATE SAMPLE TRANSFER	A1-142314-100-N-0003	12 m3/hr @ 15 m TDH	40 mm	1	1	1.5	N	Vertical Table Pumps	
230 - PU - 029	PUMP	ROUGHER/SCAVENGER TAILINGS SAMPLE TRANSFER	A1-142314-100-N-0003	12 m3/hr @ 15 m TDH	40 mm	1	1	1.5	N	Vertical Table Pumps	
230 - PU - 030	PUMP	FINAL CONCENTRATE SAMPLE TRANSFER	A1-142314-100-N-0006	12 m3/hr @ 15 m TDH	40 mm	1	1	1.5	N	Vertical Table Pumps	
230 - PU - 031	PUMP	CLEANER SCAVENGER TAILS SAMPLE TRANSFER	A1-142314-100-N-0005	12 m3/hr @ 15 m TDH	40 mm	1	1	1.5	N	Vertical Table Pumps	
230 - PU - 033	PUMP	ON STREAM ANALYZER SAMPLE RETURN	A1-142314-100-N-0003	12 m3/hr @ 15 m TDH	40 mm	1	1	1.5	N	Vertical Table Pumps	
230 - SA - 001	SAMPLER	GRINDING CYCLONE OVERFLOW	A1-142314-100-N-0003			1	1	0.75	N		
230 - SA - 002	SAMPLER	ROUGHER CONCENTRATE	A1-142314-100-N-0003			1	1	0.75	N		
230 - SA - 003	SAMPLER	ROUGHER/SCAVENGER TAILINGS	A1-142314-100-N-0003			1	1	0.75	N		
230 - SA - 004	SAMPLER	FINAL CONCENTRATE	A1-142314-100-N-0006			1	1	0.75	N		
230 - SA - 005	SAMPLER	CLEANER SCAVENGER TAILS	A1-142314-100-N-0005			1	1	0.75	N		
230 - XX - 014	MISCELLANEOUS	PARTICLE SIZE ANALYSER	A1-142314-100-N-0003			1	1	- - -	N		
230 - XX - 015	MISCELLANEOUS	ON STREAM ANALYSER	A1-142314-100-N-0003			1	1	- - -	N		



EQUIPMENT NUMBER	EQUIPMENT TYPE	DESCRIPTION	REFERENCE DRAWING	CAPACITY	SIZE	NO. OF UNITS	NO. OF OPERATING UNITS	POWER kW	VFD (Y/N)	REMARKS	REV
AREA: 240 CONCENTRATE DEWATERING											
240 - PU - 037	PUMP	COPPER CONCENTRATE THICKENER U/F	A1-142314-100-N-0007	30 m3/hr @ 18 m TDH	3 x 2	1	1	18.6	Y		D
240 - PU - 038	PUMP	COPPER CONCENTRATE THICKENER U/F - STANDBY	A1-142314-100-N-0007	30 m3/hr @ 18 m TDH	3 x 2	1	0	18.6	Y		D
240 - PU - 039	PUMP	COPPER CONCENTRATE THICKENER O/F	A1-142314-100-N-0007	60 m3/hr @ 6 m TDH	3 x 2	1	1	3.7	N		
240 - PU - 040	PUMP	COPPER CONCENTRATE THICKENER O/F - STANDBY	A1-142314-100-N-0007	60 m3/hr @ 6 m TDH	3 x 2	1	0	3.7	N		
240 - PU - 043	PUMP	COPPER CONCENTRATE THICKENER AREA SUMP	A1-142314-100-N-0007		4"	1	1	18.6	N		
240 - SK - 001	STANDPIPE	COPPER CONCENTRATE THICKENER O/F	A1-142314-100-N-0007			1	1	---	N		
240 - TH - 001	THICKENER	COPPER CONCENTRATE	A1-142314-100-N-0007		20 m dia.	1	1	4	N		B
AREA: 250 FILTER PLANT											
250 - AG - 002	AGITATOR	COPPER CONCENTRATE FILTER FEED TANK	A1-142314-100-N-0007			1	1	18.6	N		
250 - AR - 002	AIR RECEIVER	FILTER DRYING	A1-142314-100-N-0007	30 m3 , 1,000 kPa		1	1	---	N		B
250 - AR - 003	AIR RECEIVER	FILTER PRESSING	A1-142314-100-N-0007	6 m3, 2,000 kPa		1	1	---	N		B
250 - CH - 045	CHUTE	COPPER CONCENTRATE FILTER DISCHARGE	A1-142314-100-N-0007			1	1	---	N		C
250 - CH - 046	CHUTE	COPPER CONCENTRATE FEEDER DISCHARGE	A1-142314-100-N-0007			1	1	---	N		C
250 - CK - 006	CRANE	FILTER BUILDING OVERHEAD	A1-142314-100-N-0007	5 tonne	7m span, 9.5 m lift	1	1	6.1	N	Under Running Single Girder	
250 - CO - 003	COMPRESSOR	FILTER DRYING	A1-142314-100-N-0007	24.6 m3/min @ 900 kPa		1	1	160	N	c/w refrigerated dryer	B
250 - CO - 004	COMPRESSOR	FILTER PRESSING	A1-142314-100-N-0007	12.7 m3/min @ 2,000 kPa		1	1	110	N	c/w refrigerated dryer	B
250 - CV - 008	CONVEYOR	COPPER CONCENTRATE STOCKPILE FEED	A1-142314-100-N-0007		0.533m x 68.2m x 12.9m lift	1	1	3.7	N		B
250 - FE - 006	FEEDER	COPPER CONCENTRATE FILTER DISCHARGE	A1-142314-100-N-0007			1	1	7.5	N		C
250 - FL - 001	FILTER	COPPER CONCENTRATE PRESSURE	A1-142314-100-N-0007		72 m2, expandable to 96 m2	1	1	90	N		B
250 - HX - 002	COOLING SYSTEM	HYDRAULIC OIL	A1-142314-100-N-0007			1	1	---	N		B
250 - MB - 005	MOBILE EQUIPMENT	FRONT-END LOADER	A1-142314-100-N-0007			1	1	---	N		
250 - PU - 047	PUMP	COPPER CONCENTRATE FILTER FEED	A1-142314-100-N-0007		6 x 4	1	1	90	Y		B
250 - PU - 048	PUMP	COPPER CONCENTRATE FILTER FEED - STANDBY	A1-142314-100-N-0007		6 x 4	1	0	90	Y		B
250 - PU - 049	PUMP	COPPER FILTER CLOTH WASH WATER	A1-142314-100-N-0007		CR32-6U	1	1	18.5	N		B
250 - PU - 050	PUMP	COPPER FILTER CLOTH WASH WATER - STANDBY	A1-142314-100-N-0007		CR32-6U	1	0	18.5	N		B
250 - PU - 051	PUMP	COPPER FILTER MANIFOLD FLUSH	A1-142314-100-N-0007		APP31-100	1	1	90	N		B
250 - PU - 052	PUMP	COPPER FILTER MANIFOLD FLUSH - STANDBY	A1-142314-100-N-0007		APP31-100	1	0	90	N		B
250 - SP - 003	STOCKPILE	COPPER CONCENTRATE STORAGE - COVERED	A1-142314-100-N-0007	5,000 tonnes		1	1	---	N		
250 - TK - 003	TANK	COPPER CONCENTRATE FILTER FEED	A1-142314-100-N-0007	362 m3	7 m dia. x 10 m high	1	1	---	N	Carbon Steel Construction	
250 - TK - 035	TANK	COPPER FILTER CLOTH WASH WATER	A1-142314-100-N-0008	6 m3	2.5 m dia x 3 m high	1	1	---	N	Carbon Steel Construction	B
250 - TK - 036	TANK	COPPER FILTER MANIFOLD FLUSH	A1-142314-100-N-0008	6 m3	2.5 m dia x 3 m high	1	1	---	N	Carbon Steel Construction	B
250 - TK - 037	TANK	COPPER FILTER AIR RELEASE	A1-142314-100-N-0008			1	1	---	N		B
250 - WS - 003	WEIGH BRIDGE	CONCENTRATE TRUCK	A1-142314-100-N-0007			1	1	---	N		



REV: E
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DOCUMENT NO.: 142314 Process Equipment List - 25,000 tpd

REV DATE: 06-Apr-05

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PROJECT: MIRADOR PROJECT
 PROJECT NO: 142314
 OWNER: CORRIENTE RESOURCES INC.
 DATE: 06-Apr-05

EQUIPMENT NUMBER	EQUIPMENT TYPE	DESCRIPTION	REFERENCE DRAWING	CAPACITY	SIZE	NO. OF UNITS	NO. OF OPERATING UNITS	POWER kW	VFD (Y/N)	REMARKS	REV
AREA: 260 REAGENTS HANDLING AND STORAGE											
260 - AG - 005	AGITATOR	XANTHATE MIX TANK	A1-142314-100-N-0009			1	1	2.2	N	CS	
260 - AG - 006	AGITATOR	XANTHATE DAY TANK	A1-142314-100-N-0009			1	1	2.2	N	CS	
260 - FA - 010	FAN	XANTHATE TANKS EXHAUST	A1-142314-100-N-0009			1	1	0.75	N		
260 - HO - 010	HOPPER	XANTHATE BAG UNLOADING #1	A1-142314-100-N-0009			1	1	---	N		
260 - HO - 011	HOPPER	XANTHATE BAG UNLOADING #2	A1-142314-100-N-0009			1	1	---	N		
260 - PU - 060	PUMP	XANTHATE DAY TANK TRANSFER	A1-142314-100-N-0009			1	1	2.2	N		
260 - PU - 061	PUMP	XANTHATE DAY TANK TRANSFER - STANDBY	A1-142314-100-N-0009			1	0	2.2	N		
260 - PU - 062	PUMP	XANTHATE HEAD TANK TRANSFER	A1-142314-100-N-0009			1	1	2.2	N		
260 - PU - 063	PUMP	XANTHATE HEAD TANK TRANSFER - STANDBY	A1-142314-100-N-0009			1	0	2.2	N		
260 - PU - 064	PUMP	XANTHATE AREA SUMP	A1-142314-100-N-0009	12 m3/hr	1.5"	1	1	7.5	N		
260 - TK - 010	TANK	XANTHATE MIX	A1-142314-100-N-0009		2.6 m dia. x 2.6 m high	1	1	---	N	Carbon Steel Construction	
260 - TK - 011	TANK	XANTHATE DAY	A1-142314-100-N-0009		3 m dia. x 3 m high	1	1	---	N	Carbon Steel Construction	
260 - TK - 012	TANK	XANTHATE HEAD	A1-142314-100-N-0009		1.6 m dia. x 2.5 m high	1	1	---	N	Carbon Steel Construction	
260 - FA - 011	FAN	COLLECTOR 3894 EXHAUST TANK	A1-142314-100-N-0009			1	1	0.75	N		
260 - PU - 065	PUMP	COLLECTOR 3894 HEAD TANK TRANSFER	A1-142314-100-N-0009			1	1	2.2	N		
260 - PU - 066	PUMP	COLLECTOR 3894 HEAD TANK TRANSFER - STANDBY	A1-142314-100-N-0009			1	0	2.2	N		
260 - PU - 067	PUMP	COLLECTOR 3894 METERING #1	A1-142314-100-N-0009			1	1	0.37	Y		
260 - PU - 068	PUMP	COLLECTOR 3894 METERING #2	A1-142314-100-N-0009			1	1	0.37	Y		
260 - PU - 069	PUMP	COLLECTOR 3894 METERING #3	A1-142314-100-N-0009			1	1	0.37	Y		
260 - PU - 070	PUMP	COLLECTOR 3894 METERING #4	A1-142314-100-N-0009			1	1	0.37	Y		
260 - PU - 071	PUMP	COLLECTOR 3894 METERING #5	A1-142314-100-N-0009			1	1	0.37	Y		
260 - PU - 072	PUMP	COLLECTOR 3894 METERING #6	A1-142314-100-N-0009			1	1	0.37	Y		
260 - PU - 073	PUMP	COLLECTOR 3894 AREA SUMP	A1-142314-100-N-0009	12 m3/hr	1.5"	1	1	7.5	N		
260 - TK - 013	TANK	COLLECTOR 3894 MIX	A1-142314-100-N-0009		1.52 m dia. x 1.7 m high	1	1	---	N	Carbon Steel Construction	
260 - TK - 014	TANK	COLLECTOR 3894 HEAD	A1-142314-100-N-0009		1.37 m dia. x 1.52 m high	1	1	---	N	Carbon Steel Construction	
260 - FA - 012	FAN	FROTHER TANKS EXHAUST	A1-142314-100-N-0009			1	1	0.75	N		
260 - PU - 074	PUMP	FROTHER HEAD TANK TRANSFER	A1-142314-100-N-0009			1	1	2.2	N		
260 - PU - 075	PUMP	FROTHER HEAD TANK TRANSFER - STANDBY	A1-142314-100-N-0009			1	0	2.2	N		
260 - PU - 076	PUMP	FROTHER METERING #1	A1-142314-100-N-0009			1	1	0.37	Y		
260 - PU - 077	PUMP	FROTHER METERING #2	A1-142314-100-N-0009			1	1	0.37	Y		
260 - PU - 078	PUMP	FROTHER METERING #3	A1-142314-100-N-0009			1	1	0.37	Y		
260 - PU - 079	PUMP	FROTHER METERING #4	A1-142314-100-N-0009			1	1	0.37	Y		
260 - PU - 080	PUMP	FROTHER METERING #5	A1-142314-100-N-0009			1	1	0.37	Y		



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PROJECT: MIRADOR PROJECT
 PROJECT NO: 142314
 OWNER: CORRIENTE RESOURCES INC.
 DATE: 06-Apr-05

EQUIPMENT NUMBER	EQUIPMENT TYPE	DESCRIPTION	REFERENCE DRAWING	CAPACITY	SIZE	NO. OF UNITS	NO. OF OPERATING UNITS	POWER kW	VFD (Y/N)	REMARKS	REV
260 - PU - 081	PUMP	FROTHER METERING #6	A1-142314-100-N-0009			1	1	0.37	Y		
260 - PU - 082	PUMP	FROTHER AREA SUMP	A1-142314-100-N-0009	12 m3/hr	1.5"	1	1	7.5	N		
260 - TK - 015	TANK	FROTHER MIX	A1-142314-100-N-0009		3.5 m dia. x 3.5 m high	1	1	---	N	Carbon Steel Construction	
260 - TK - 016	TANK	FROTHER HEAD	A1-142314-100-N-0009		1.37 m dia. x 1.52 m high	1	1	---	N	Carbon Steel Construction	
260 - AG - 007	AGITATOR	TEST REAGENT MIX TANK	A1-142314-100-N-0010			1	1	2.2	N	316LSS Wetted Parts	
260 - AG - 008	AGITATOR	TEST REAGENT DAY TANK	A1-142314-100-N-0010			1	1	2.2	N	316LSS Wetted Parts	
260 - FA - 013	FAN	TEST REAGENT TANKS EXHAUST	A1-142314-100-N-0010			1	1	0.75	N		
260 - HO - 012	HOPPER	TEST REAGENT BAG UNLOADING #1	A1-142314-100-N-0010			1	1	---	N		
260 - HO - 013	HOPPER	TEST REAGENT BAG UNLOADING #2	A1-142314-100-N-0010			1	1	---	N		
260 - PU - 083	PUMP	TEST REAGENT DAY TANK TRANSFER	A1-142314-100-N-0010			1	1	2.2	N		
260 - PU - 084	PUMP	TEST REAGENT DAY TANK TRANSFER - STANDBY	A1-142314-100-N-0010			1	0	2.2	N		
260 - PU - 085	PUMP	TEST REAGENT HEAD TANK TRANSFER	A1-142314-100-N-0010			1	1	2.2	N		
260 - PU - 086	PUMP	TEST REAGENT HEAD TANK TRANSFER - STANDBY	A1-142314-100-N-0010			1	0	2.2	N		
260 - PU - 087	PUMP	TEST REAGENT METERING #1	A1-142314-100-N-0009			1	1	0.37	Y		
260 - PU - 088	PUMP	TEST REAGENT METERING #2	A1-142314-100-N-0009			1	1	0.37	Y		
260 - PU - 089	PUMP	TEST REAGENT METERING #3	A1-142314-100-N-0009			1	1	0.37	Y		
260 - PU - 090	PUMP	TEST REAGENT METERING #4	A1-142314-100-N-0009			1	1	0.37	Y		
260 - PU - 091	PUMP	TEST REAGENT METERING #5	A1-142314-100-N-0009			1	1	0.37	Y		
260 - PU - 092	PUMP	TEST REAGENT METERING #6	A1-142314-100-N-0009			1	1	0.37	Y		
260 - PU - 093	PUMP	TEST REAGENT AREA SUMP	A1-142314-100-N-0010	12 m3/hr	1.5"	1	1	7.5	N		
260 - TK - 017	TANK	TEST REAGENT MIX	A1-142314-100-N-0010		2.6 m dia. x 2.6 m high	1	1	---	N	Carbon Steel Construction	
260 - TK - 018	TANK	TEST REAGENT DAY	A1-142314-100-N-0010		3 m dia. x 3 m high	1	1	---	N	Carbon Steel Construction	
260 - TK - 019	TANK	TEST REAGENT HEAD	A1-142314-100-N-0010		1.6 m dia. x 2.5 m high	1	1	---	N	Carbon Steel Construction	
260 - SY - 001	EYEWASH/SHOWER STATION	REAGENT AREA	A1-142314-100-N-0009			1	1	---	N		
260 - AG - 009	AGITATOR	FLOCCULANT MIX TANK	A1-142314-100-N-0010			1	1	1.5	N	316LSS Wetted Parts	
260 - PU - 095	PUMP	FLOCCULANT TRANSFER	A1-142314-100-N-0010			1	1	2.2	N		
260 - PU - 096	PUMP	FLOCCULANT TRANSFER - STANDBY	A1-142314-100-N-0010			1	0	2.2	N		
260 - PU - 097	PUMP	FLOCCULANT DISTRIBUTION	A1-142314-100-N-0010			1	1	0.75	Y		
260 - PU - 098	PUMP	FLOCCULANT DISTRIBUTION - STANDBY	A1-142314-100-N-0010			1	0	0.75	Y		
260 - PU - 099	PUMP	FLOCCULANT AREA SUMP	A1-142314-100-N-0010	12 m3/hr	1.5"	1	1	7.5	N		
260 - TK - 020	TANK	FLOCCULANT MIX	A1-142314-100-N-0010		1 m dia. x 1.62 m high	1	1	---	N	Carbon Steel Construction	
260 - TK - 021	TANK	FLOCCULANT HOLDING	A1-142314-100-N-0010		1 m dia. x 1.62 m high	1	1	---	N	Carbon Steel Construction	
260 - XX - 020	MISCELLANEOUS	DRY FLOCCULANT MIXING SYSTEM	A1-142314-100-N-0010			1	1	---	N		
260 - PK - 001	PACKAGE	LIME MAKE-UP	A1-142314-100-N-0010			1	1	---	N		



EQUIPMENT NUMBER	EQUIPMENT TYPE	DESCRIPTION	REFERENCE DRAWING	CAPACITY	SIZE	NO. OF UNITS	NO. OF OPERATING UNITS	POWER kW	VFD (Y/N)	REMARKS	REV
260 - PK - 001A	SILO	LIME STORAGE	A1-142314-100-N-0010	57 m3	3.7 m dia. x 5.5 m high	1	1	---	N		
260 - PK - 001B	DUST COLLECTOR	LIME STORAGE SILO	A1-142314-100-N-0010	25 m2		1	1	---	N		
260 - PK - 001C	FAN	LIME STORAGE SILO DUST COLLECTOR	A1-142314-100-N-0010			1	1	---	N		
260 - PK - 001D	BIN	LIME ACTIVATOR	A1-142314-100-N-0010		1.52 m dia.	1	1	1.1	N		
260 - PK - 001E	FEEDER	LIME SCREW	A1-142314-100-N-0010	1,134 kg/ hr		1	1	0.75	Y		
260 - PK - 001F	SLAKER	LIME DETENTION	A1-142314-100-N-0010	113 kg/hr - 1,134 kg/hr		1	1	1.5	N		
260 - PK - 001G	PUMPBOX	LIME SLAKER DISCHARGE	A1-142314-100-N-0010	2.84 m3	1.5 m dia. x 2.7 m	1	1	---	N		
260 - PK - 001H	PUMP	LIME SLAKER DISCHARGE	A1-142314-100-N-0010	4.5 m3/hr @ 7.3 m TDH		1	1	1.5	N		
260 - PK - 001I	PUMP	LIME SLAKER DISCHARGE - STANDBY	A1-142314-100-N-0010	4.5 m3/hr @ 7.3 m TDH		1	0	1.5	N		
260 - AG - 010	AGITATOR	LIME SLURRY STORAGE TANK	A1-142314-100-N-0010			1	1	7.5	N		
260 - PU - 100	PUMP	LIME SLURRY LOOP	A1-142314-100-N-0010	4.5 m3/hr @ 24 m TDH		1	1	5.6	N		
260 - PU - 101	PUMP	LIME SLURRY LOOP - STANDBY	A1-142314-100-N-0010	4.5 m3/hr @ 24 m TDH		1	0	5.6	N		
260 - PU - 102	PUMP	LIME AREA SUMP	A1-142314-100-N-0010	12 m3/hr	1.5"	1	1	7.5	N		
260 - SY - 002	EYEWASH/SHOWER STATION	LIME AREA	A1-142314-100-N-0010			1	1	---	N		
260 - TK - 022	TANK	LIME SLURRY STORAGE	A1-142314-100-N-0010	72 m3	4.27 m dia. x 5.5 m high	1	1	---	N		
260 - AR - 005	AIR RECEIVER	PLANT	A1-142314-100-N-0010	4 m3 , 1,034 kPa	1,219 mm dia. x 3.66 m	1	1	---	N		
260 - AR - 006	AIR RECEIVER	INSTRUMENT	A1-142314-100-N-0010	1.9 m3 , 1,138 kPa	914 mm dia. x 2.95 m	1	1	---	N		
260 - AR - 007	AIR RECEIVER	DRY INSTRUMENT	A1-142314-100-N-0010	1.9 m3 , 1,138 kPa	914 mm dia. x 2.95 m	1	1	---	N		
260 - AR - 008	AIR RECEIVER	SAG MILL CLUTCH #1	A1-142314-100-N-0002	0.9 m3 , 1,379 kPa	762 mm dia. x 2.13 m	1	1	---	N		
260 - AR - 009	AIR RECEIVER	SAG MILL CLUTCH #2	A1-142314-100-N-0002	0.9 m3 , 1,379 kPa	762 mm dia. x 2.13 m	1	1	---	N		
260 - AR - 010	AIR RECEIVER	BALL MILL CLUTCH #1	A1-142314-100-N-0002	0.9 m3 , 1,379 kPa	762 mm dia. x 2.13 m	1	1	---	N		
260 - AR - 011	AIR RECEIVER	BALL MILL CLUTCH #2	A1-142314-100-N-0002	0.9 m3 , 1,379 kPa	762 mm dia. x 2.13 m	1	1	---	N		
260 - BL - 001	BLOWER	FLOTATION AIR #1	A1-142314-100-N-0010	17,655 cfm @ 7.98 psig		1	1	596.6	N		B
260 - BL - 002	BLOWER	FLOTATION AIR #2 - STANDBY	A1-142314-100-N-0010	17,655 cfm @ 7.98 psig		1	0	596.6	N		B
260 - CO - 005	COMPRESSOR	PLANT AIR	A1-142314-100-N-0010	1811 Am3/hr @ 862 kPa		1	1	186.4	N	Rotary Screw, Air-cooled	
260 - CO - 006	COMPRESSOR	PLANT AIR - STANDBY	A1-142314-100-N-0010	1811 Am3/hr @ 862 kPa		1	0	186.4	N	Rotary Screw, Air-cooled	
260 - DR - 002	DRYER	INSTRUMENT AIR	A1-142314-100-N-0010	904 Am3/hr @ 1,600 kPa		1	1	---	N	Refrigerated, Air-cooled	
260 - PU - 105	PUMP	COMPRESSOR AREA SUMP	A1-142314-100-N-0010	12 m3/hr	1.5"	1	1	7.5	N		



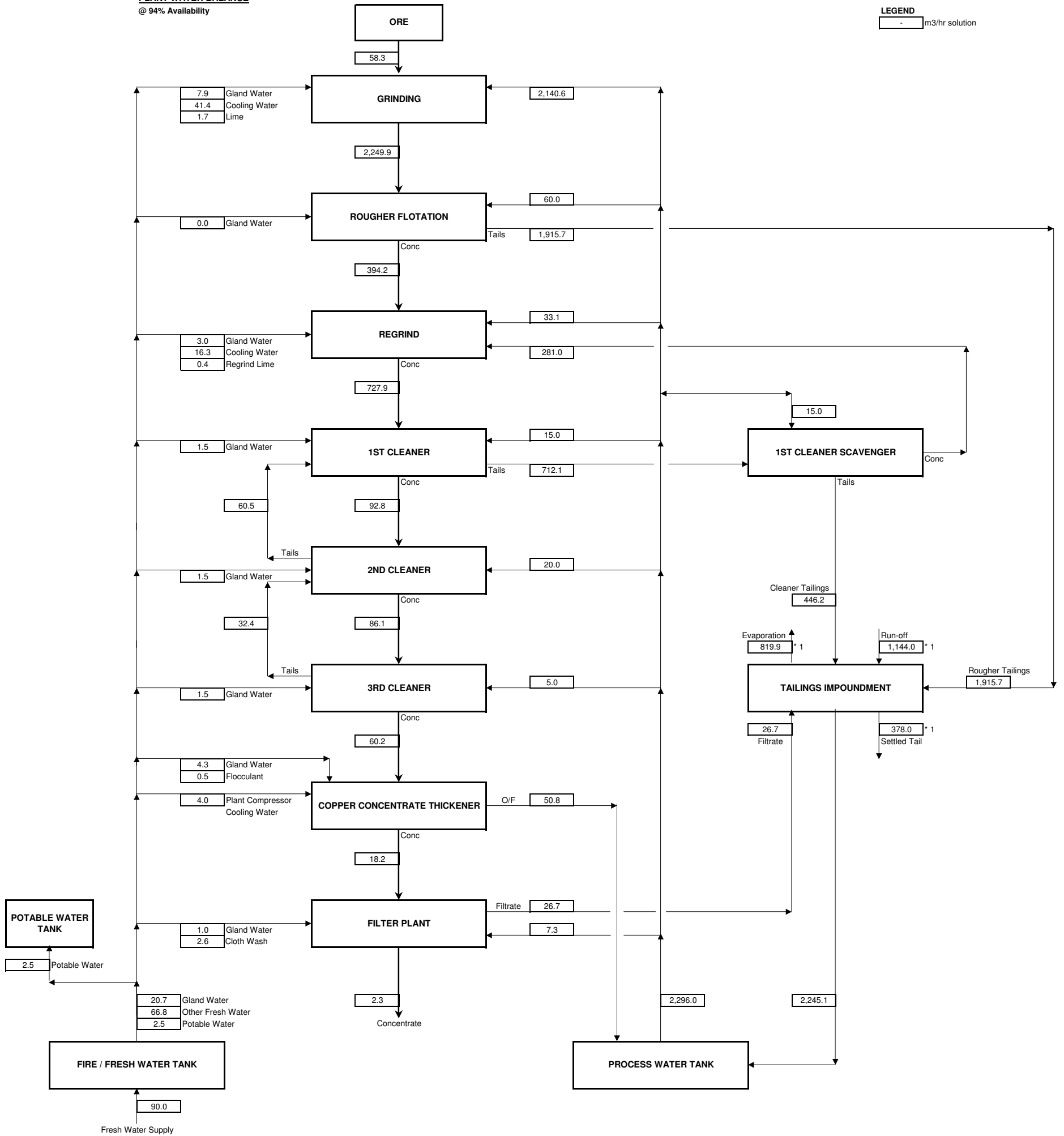
EQUIPMENT NUMBER	EQUIPMENT TYPE	DESCRIPTION	REFERENCE DRAWING	CAPACITY	SIZE	NO. OF UNITS	NO. OF OPERATING UNITS	POWER kW	VFD (Y/N)	REMARKS	REV
AREA: 650 WATER SUPPLY AND DISTRIBUTION											
650 - PU - 110	PUMP	RECLAIM WATER VERTICLE TURBINE	A1-142314-100-N-0008			1	1	298.2	N	By Knight Piesold (Operating Power = 700 kW Total)	D
650 - PU - 111	PUMP	RECLAIM WATER VERTICLE TURBINE	A1-142314-100-N-0008			1	1	298.2	N	By Knight Piesold (Operating Power = 700 kW Total)	D
650 - PU - 112	PUMP	RECLAIM WATER VERTICLE TURBINE	A1-142314-100-N-0008			1	1	298.2	N	By Knight Piesold (Operating Power = 700 kW Total)	D
650 - PU - 113	PUMP	RECLAIM WATER VERTICLE TURBINE - STANDBY	A1-142314-100-N-0008			1	0	298.2	N	By Knight Piesold (Operating Power = 700 kW Total)	D
650 - PU - 114	PUMP	FRESH WATER DISTRIBUTION	A1-142314-100-N-0008	70 m3/hr @ 36 m TDH	4 x 3	1	1	18.6	N		D
650 - PU - 115	PUMP	FRESH WATER DISTRIBUTION - STANDBY	A1-142314-100-N-0008	70 m3/hr @ 36 m TDH	4 x 3	1	0	18.6	N		D
650 - PU - 116	PUMP	FIRE WATER RE-FILL POTABLE	A1-142314-100-N-0008	57 m3/hr @ 76 m TDH	4"	1	1	29.8	N	Portable Submersible Dewatering Pump	
650 - PU - 117	PUMP	PROCESS WATER DISTRIBUTION	A1-142314-100-N-0008	2,750 m3/hr @ 46 m TDH	24 x 20	1	1	596.6	N		B
650 - PU - 118	PUMP	PROCESS WATER DISTRIBUTION - STANDBY	A1-142314-100-N-0008	2,750 m3/hr @ 46 m TDH	24 x 20	1	0	596.6	N		B
650 - PU - 120	PUMP	GLAND SEAL WATER	A1-142314-100-N-0008	30 m3/hr @ 55 m TDH	2 x 1.5	1	1	11.2	N		
650 - PU - 121	PUMP	GLAND SEAL WATER - STANDBY	A1-142314-100-N-0008	30 m3/hr @ 55 m TDH	2 x 1.5	1	0	11.2	N		
650 - PU - 135	PUMP	FRESH WATER WELL	A1-142314-100-N-0008	90 m3/hr		1	1	18.6	N	Moved from Area 250	D
650 - PU - 136	PUMP	FRESH WATER WELL - STANDBY	A1-142314-100-N-0008	90 m3/hr		1	1	18.6	N	Moved from Area 250	D
650 - PU - 137	PUMP	POTABLE WATER	A1-142314-100-N-0008	9 m3/hr @ 37 m TDH	2 x 1.5	1	1	3.7	N	Moved from Area 250	D
650 - PU - 138	PUMP	POTABLE WATER - STANDBY	A1-142314-100-N-0008	9 m3/hr @ 37 m TDH	2 x 1.5	1	1	3.7	N	Moved from Area 250	D
650 - TK - 025	TANK	FRESH WATER	A1-142314-100-N-0008	86 m3	7.6 m dia. x 8 m high	1	1	- - -	N	Carbon Steel Construction	
650 - TK - 026	TANK	PROCESS WATER	A1-142314-100-N-0008	1,150 m3	11 m dia. x 12 m high	1	1	- - -	N	Carbon Steel Construction	B
650 - TK - 027	TANK	FIRE WATER	A1-142314-100-N-0008	454 m3	8.3 m dia. x 9 m high	1	1	- - -	N	Carbon Steel Construction	
650 - TK - 007	TANK	POTABLE WATER	A1-142314-100-N-0008		3.5 m dia. x 4 m high	1	1	- - -	N	Moved from Area 250	D
650 - XX - 025	MISCELLANEOUS	RECLAIM WATER BARGE	A1-142314-100-N-0008			1	1	- - -	N	By Knight Piesold	D
650 - XX - 017	MISCELLANEOUS	ADMIN AREA POTABLE WATER TREATMENT PACKAGE	A1-142314-100-N-0008			1	1	- - -	N	Moved from Area 250	D

CLIENT Corriente Resources
PROJECT Mirador Project
PROJECT CODE 142314
SUBJECT 25,000 tpd Plant Site Water Balance (Nominal @ 94% Availability)
PREPARED BY W A Colquhoun
REV Issued for Feasibility Report
DATE 26 April 2005



PLANT WATER BALANCE
@ 94% Availability

LEGEND
- m3/hr solution



AREA WATER BALANCE

Area	In	Out	In - Out
Grinding	2,249.9 m3/hr	2,249.9 m3/hr	0.0 m3/hr
Rougher Flotation	2,309.9 m3/hr	2,309.9 m3/hr	0.0 m3/hr
Regrind	727.9 m3/hr	727.9 m3/hr	0.0 m3/hr
1st Cleaner	804.9 m3/hr	804.9 m3/hr	0.0 m3/hr
1st Cleaner Scavenger	727.1 m3/hr	727.1 m3/hr	0.0 m3/hr
2nd Cleaner	146.7 m3/hr	146.7 m3/hr	0.0 m3/hr
3rd Cleaner	92.6 m3/hr	92.6 m3/hr	0.0 m3/hr
Copper Concentrate Thickener	69.0 m3/hr	69.0 m3/hr	0.0 m3/hr
Filter Plant	29.0 m3/hr	29.0 m3/hr	0.0 m3/hr
Tailings Impoundment	3,532.6 m3/hr	3,443.0 m3/hr	89.6 m3/hr Surplus Water

NOTES

* 1. Average values calculated from Pangui Tailings Management Facility Water Balance Modelling Summary table supplied by Knight Peisold on April 26, 2005.



PROJECT: MIRADOR PROJECT
 PROJECT NO: 142314
 OWNER:
 DATE: April 13, 2005

LOAD LIST

Equipment Number	Equipment Type	Equipment Description	Size / Capacity	Qty	Op.	VS	Installed kW Each	Total Instd kW	Motor Rating	Motor Eff	Emerg Power	% Draw	PF	Op. Time %	Installed kVA	Peak kVA Draw	Running kVA	Peak kW	Running kW	MWhr/Year
							33,348.5								44,755.7	40,258.1	31,996.9	33,921.7	28,323.9	226,382.7
AREA: 210 CRUSHING PLANT							705.65							592.2 3,339.9						
210	CK 001	CRANE	CRUSHER OVERHEAD TRAVELING	/5 TONNES (10 m SPAN / 32m LIF	1	1	92.1	92.1	460	0.945		0.8	0.82	20%	118.9	118.9	95.1	97.5	78.0	136.6
210	CO 001	COMPRESSOR	CRUSHER SEAL AIR	150 CFM @ 125 psi	1	1	0.75	0.75	460	0.945		0.8	0.82	75%	1.0	1.0	0.8	0.8	0.6	4.2
210	CO 002	COMPRESSOR	CRUSHER SERVICE AIR	150 CFM @ 125 psi	1	1	29.8	29.8	460	0.945		0.8	0.82	75%	38.5	38.5	30.8	31.5	25.2	165.7
210	CR 001	CRUSHER	GYRATORY	1066.8mm x 1651mm	1	1	372.8	372.8	4,000	0.930		0.8	0.865	75%	463.4	463.4	370.7	400.9	320.7	2,106.9
210	CV 001	CONVEYOR	CRUSHER DISCHARGE	1525mm x 26.1m	1	1	14.9	14.9	460	0.945		0.8	0.82	75%	19.2	19.2	15.4	15.8	12.6	82.9
210	FE 001	APRON FEEDER	CRUSHER DISCHARGE	1370mm x 6.8m / 1500 MTPH	1	1	44.7	44.7	460	0.945		0.65	0.82	75%	57.7	57.7	37.5	47.3	30.7	202.0
210	LU 001	CRUSHER LUBE UNIT	OIL PUMPING		1	1	50	50	460	0.945		0.8	0.82	50%	64.5	64.5	51.6	52.9	42.3	185.4
210	PU 003	PUMP	CRUSHER RECLAIM TUNNEL PORTABLE SUMP	4"	1	1	18.6	18.6	460	0.945	Y	0.8	0.82	20%	24.0	24.0	19.2	19.7	15.7	27.6
210	PU 130	PUMP	CRUSHER AREA POTABLE WATER	2 x 1.5	1	1	3.7	3.7	460	0.945	Y	0.8	0.82	50%	4.8	4.8	3.8	3.9	3.1	13.7
210	PU 131	PUMP	CRUSHER AREA POTABLE WATER - STANDBY	2 x 1.5	1	0	3.7	3.7	460	0.945		0.8	0.82	50%	4.8	-	-	-	-	-
210	RB 001	ROCK BREAKER	CRUSHER DUMP POCKET	5500 FT. LB. CLASS	1	1	74.6	74.6	460	0.945		0.8	0.82	75%	96.3	96.3	77.0	78.9	63.2	414.9
AREA: 215 COARSE ORE STORAGE AND RECLAIM							4141.4							582.7 4,042.5						
215	CK 002	MONORAIL HOIST	RECLAIM TUNNEL	3.2 TONNES	1	1	3.7	3.7	460	0.945		0.8	0.82	20%	4.8	4.8	3.8	3.9	3.1	5.5
215	CV 002	CONVEYOR	OVERLAND #1	219 mm x 3250 m LONG x 405 m LIF	3	3	Y	1790	4,000	0.93		0.8	0.88	75%	2,187.2	2,187.2	(1,642.0)	1,924.7	(1,445.0)	(9,493.7)
			TRANSFER STATION LOAD		1	1		200	460	0.945		0.75	0.82	75%	258.1	258.1	193.6	211.6	158.7	1,042.9
215	CV 010	CONVEYOR	OVERLAND #2		3	3	Y	1864	4,000	0.93		0.8	0.88	75%	2,277.6	2,277.6	1,879.0	2,004.0	1,654.0	10,866.8
215	CV 011	CONVEYOR	MILL FEED #1	1067 mm x 141 m LONG	1	1	75	75	460	0.945		0.8	0.82	94%	96.8	96.8	77.4	79.4	63.5	522.8
215	CV 003	CONVEYOR	MILL FEED #2		1	1	44.7	44.7	460	0.945		0.8	0.82	94%	57.7	57.7	46.1	47.3	37.8	311.6
215	FA 001	FAN	RECLAIM TUNNEL VENTILATION		1	1	7.5	7.5	460	0.945	Y	0.8	0.82	94%	9.7	9.7	7.7	7.9	6.3	52.3
215	FE 002	APRON FEEDER	RECLAIM # 1	1200 mm x 7.2 m / 400 MTPH	1	1	Y	44.7	460	0.945		0.6	0.82	94%	57.7	57.7	34.6	47.3	28.4	233.7
215	FE 003	APRON FEEDER	RECLAIM # 2	1200 mm x 7.2 m / 400 MTPH	1	1	Y	44.7	460	0.945		0.6	0.82	94%	57.7	57.7	34.6	47.3	28.4	233.7
215	FE 004	APRON FEEDER	RECLAIM # 3	1200 mm x 7.2 m / 400 MTPH	1	1	Y	44.7	460	0.945		0.6	0.82	94%	57.7	57.7	34.6	47.3	28.4	233.7
215	PU 004	PUMP	RECLAIM TUNNEL SUMP	6"	1	1	22.4	22.4	460	0.945	Y	0.8	0.82	20%	28.9	28.9	23.1	23.7	19.0	33.2
AREA: 220 GRINDING							20,883.9							19,206.7 155,385.1						
220	CK 003	CRANE	MILL AREA OVERHEAD	50 / 5 TONNES - 35 M SPAN	1	1	77.2	77.2	460	0.945		0.8	0.82	10%	99.6	99.6	79.7	81.7	65.4	57.3
220	CK 004	MONORAIL	BOLT REMOVAL TOOL		1	1	3.7	3.7	460	0.945		0.8	0.82	5%	4.8	4.8	3.8	3.9	3.1	1.4
220	CR 002	CRUSHER	PEBBLE CONE		1	1	375	375	4,000	0.945		0.8	0.82	75%	483.9	483.9	387.1	396.8	317.5	2,085.7
220	CV 004	CONVEYOR	SAG MILL OVERSIZE TRANSFER	0.762m x 32m x 5m LIFT	1	1	22.4	22.4	460	0.945		0.8	0.82	94%	28.9	28.9	23.1	23.7	19.0	156.1
220	CV 005	CONVEYOR	CONE CRUSHER FEED SHUTTLE	0.762m x 36.2m x 7.75m LIFT	1	1	11.2	11.2	460	0.945		0.8	0.82	94%	14.5	14.5	11.6	11.9	9.5	78.1
220	CV 006	CONVEYOR	CONE CRUSHER DISCHARGE	0.762m x 32m x 5m LIFT	1	1	22.4	22.4	460	0.945		0.8	0.82	94%	28.9	28.9	23.1	23.7	19.0	156.1
220	CV 007	CONVEYOR	CONE CRUSHER DISCHARGE TRANSFER		1	1	22.4	22.4	460	0.945		0.8	0.82	94%	28.9	28.9	23.1	23.7	19.0	156.1
220	FA 002	FAN	SAG MILL MOTOR COOLING	20000 CFM @ 5"	1	1	22.4	22.4	460	0.945		0.8	0.82	94%	28.9	28.9	23.1	23.7	19.0	156.1
220	FA 004	FAN	BALL MILL MOTOR COOLING	20002 CFM @ 5"	1	1	22.4	22.4	460	0.945		0.8	0.82	94%	28.9	28.9	23.1	23.7	19.0	156.1
220	FE 005	FEEDER	SAG MILL BALL FEED ROTARY		1	1	3	3	460	0.945		0.8	0.82	94%	3.9	3.9	3.1	3.2	2.5	20.9
220	ID 001	INCHING DRIVE	MILL		1	1	149	149	460	0.945		0.8	0.82	5%	192.3	192.3	153.8	157.7	126.1	55.2
220	LH 001	LINER HANDLER	MILL	2.6m W. 18.5Mm Extend, 11.74m Ret	1	1	44.7	44.7	460	0.945		0.8	0.82	5%	57.7	57.7	46.1	47.3	37.8	16.6
220	LU 003	LUBE UNIT	SAG MILL TRUNNION HIGH PRESSURE		1	1	55.9	55.9	460	0.945		0.8	0.82	94%	72.1	72.1	57.7	59.2	47.3	389.7
220	LU 004	LUBE UNIT	SAG MILL TRUNNION LOW PRESSURE		1	1	7.5	7.5	460	0.945		0.8	0.82	94%	9.7	9.7	7.7	7.9	6.3	52.3
220	LU 005	LUBE UNIT	BALL MILL TRUNNION HIGH PRESSURE		1	1	55.9	55.9	460	0.945		0.8	0.82	94%	72.1	72.1	57.7	59.2	47.3	389.7
220	LU 006	LUBE UNIT	BALL MILL TRUNNION LOW PRESSURE		1	1	7.5	7.5	460	0.945		0.8	0.82	94%	9.7	9.7	7.7	7.9	6.3	52.3
220	MM 001	MILL	SAG	9.75m dia x 4.04 m EGL	1	1	Y	8203	13,800	0.96		0.95	0.85	94%	10,052.7	10,052.7	9,550.1	8,544.8	8,117.6	66,843.2
220	MM 002	MILL	BALL	6.7 m dia. x 10.21m long	1	1	9321	9321	13,800	0.96		0.95	0.87	94%	11,160.2	11,160.2	10,602.2	9,709.4	9,223.9	75,953.3
220	MS 001	MAGNET	BALL LOADING		1	1	11.2	11.2	460	0.945		0.8	0.82	94%	14.5	14.5	11.6	11.9	9.5	78.1
220	MS 002	MAGNET	SAG MILL OVERSIZE TRAMP METAL		1	1	11.2	11.2	460	0.945		0.8	0.82	94%	14.5	14.5	11.6	11.9	9.5	78.1
220	MS 003	MAGNET	SAG MILL OVERSIZE TRANSFER TRAMP METAL		1	1	11.2	11.2	460	0.945		0.8	0.82	94%	14.5	14.5	11.6	11.9	9.5	78.1
220	PU 007	PUMP	CYCLONE FEED	21 x 12	1	1	Y	1118.6	4,000	0.93		0.8	0.875	94%	1,374.6	1,374.6	1,099.7	1,202.8	962.2	7,923.4
220	PU 008	PUMP	CYCLONE FEED - STANDBY	21 x 12	1	0	Y	1118.6	4,000	0.93		0.8	0.875	94%	1,374.6	-	-	-	-	-
220	PU 009	PUMP	GRINDING AREA SUMP	8"	1	1	29.8	29.8	460	0.945	Y	0.8	0.82	20%	38.5	38.5	30.8	31.5	25.2	44.2
22	SN 001	SCREEN	SAG MILL DISCHARGE		1	1	56	56	460	0.945		0.8	0.82	94%	72.3	72.3	57.8	59.3	47.4	390.4
22	SN 002	SCREEN	SAG MILL DISCHARGE - SPARE		1	0	56	56	460	0.945		0.8	0.82	94%	72.3	-	-	-	-	-
220	XX 009	MISCELLANEOUS	BOLT REMOVAL TOOL	1000 lb	1	1	44.7	44.7	460	0.945		0.8	0.82	5%	57.7	57.7	46.1	47.3	37.8	16.6
AREA: 230 FLOTATION AND REGRIND							5,482.7							4,287.6 34,998.8						
230	CK 001	CRANE	FLOTATION AREA OVERHEAD	10 TONNE	1	1	22.4	22.4	460	0.945		0.8	0.82	20%	28.9	28.9	23.1	19.0	19.0	33.2
230	FC 001	FLOTATION CELL	BULK ROUGHER/SCAVENGER #1	100m3	1	1	112	112	460	0.945		0.88	0.82	94%	144.5	144.5	127.2	104.3	104.3	858.8
230	FC 002	FLOTATION CELL	BULK ROUGHER/SCAVENGER #2	100m3	1	1	112	112	460	0.945		0.88	0.82	94%	144.5	144.5	127.2	104.3	104.3	858.8
230	FC 003	FLOTATION CELL	BULK ROUGHER/SCAVENGER #3	100m3	1	1	112	112	460	0.945		0.88	0.82	94%	144.5	144.5	127.2	104.3	104.3	858.8
230	FC 004	FLOTATION CELL	BULK ROUGHER/SCAVENGER #4	100m3	1	1	112	112	460	0.945		0.88	0.82	94%	144.5	144.5	127.2	104.3	104.3	858.8
230	FC 005	FLOTATION CELL	BULK ROUGHER/SCAVENGER #5	100m3	1	1	112	112	460	0.945		0.88	0.82	94%	144.5	144.5	127.2	104.3	104.3	858.8
230	FC 006	FLOTATION CELL	BULK ROUGHER/SCAVENGER #6	100m3	1	1	112	112	460	0.945		0.88	0							

Equipment Number	Equipment Type	Equipment Description	Size / Capacity	Qty	Op.	VS	Installed kW Each	Total Instd kW	Motor Rating	Motor Eff	Emerg Power	% Draw	PF	Op. Time %	Installed kVA	Peak kVA Draw	Running kVA	Peak kW	Running kW	MWhr/Year					
230	FC	027	FLOTATION CELL	1ST CLEANER SCAVENGER # 5	50 m3	1	1	75	75	460	0.945	0.80	0.82	94%	96.8	96.8	77.4	63.5	63.5	522.8					
230	FC	028	FLOTATION CELL	1ST CLEANER SCAVENGER # 6	50 m3	1	1	75	75	460	0.945	0.80	0.82	94%	96.8	96.8	77.4	63.5	63.5	522.8					
230	FC	029	FLOTATION CELL	1ST CLEANER SCAVENGER # 7	50 m3	1	1	75	75	460	0.945	0.80	0.82	94%	96.8	96.8	77.4	63.5	63.5	522.8					
230	FC	030	FLOTATION CELL	1ST CLEANER SCAVENGER # 8	50 m3	1	1	75	75	460	0.945	0.80	0.82	94%	96.8	96.8	77.4	63.5	63.5	522.8					
230	FC	031	FLOTATION CELL	2 ND CLEANER # 1	5.1 m3	1	1	15	15	460	0.945	0.80	0.82	94%	19.4	19.4	15.5	12.7	12.7	104.6					
230	FC	032	FLOTATION CELL	2 ND CLEANER # 2	5.1 m3	1	1	15	15	460	0.945	0.70	0.82	94%	19.4	19.4	13.6	11.1	11.1	91.5					
230	FC	033	FLOTATION CELL	2 ND CLEANER # 3	5.1 m3	1	1	15	15	460	0.945	0.70	0.82	94%	19.4	19.4	13.6	11.1	11.1	91.5					
230	FC	034	FLOTATION CELL	2 ND CLEANER # 4	5.1 m3	1	1	15	15	460	0.945	0.70	0.82	94%	19.4	19.4	13.6	11.1	11.1	91.5					
230	FC	035	FLOTATION CELL	2 ND CLEANER # 5	5.1 m3	1	1	15	15	460	0.945	0.70	0.82	94%	19.4	19.4	13.6	11.1	11.1	91.5					
230	FC	036	FLOTATION CELL	2 ND CLEANER # 6	5.1 m3	1	1	15	15	460	0.945	0.70	0.82	94%	19.4	19.4	13.6	11.1	11.1	91.5					
230	FC	037	FLOTATION CELL	2 ND CLEANER # 7	5.1 m3	1	1	15	15	460	0.945	0.70	0.82	94%	19.4	19.4	13.6	11.1	11.1	91.5					
230	FC	041	FLOTATION CELL	3 RD CLEANER # 1	5.1 m3	1	1	15	15	460	0.945	0.70	0.82	94%	19.4	19.4	13.6	11.1	11.1	91.5					
230	FC	042	FLOTATION CELL	3 RD CLEANER # 2	5.1 m3	1	1	15	15	460	0.945	0.70	0.82	94%	19.4	19.4	13.6	11.1	11.1	91.5					
230	FC	043	FLOTATION CELL	3 RD CLEANER # 3	5.1 m3	1	1	15	15	460	0.945	0.70	0.82	94%	19.4	19.4	13.6	11.1	11.1	91.5					
230	FC	044	FLOTATION CELL	3 RD CLEANER # 4	5.1 m3	1	1	15	15	460	0.945	0.70	0.82	94%	19.4	19.4	13.6	11.1	11.1	91.5					
230	FC	045	FLOTATION CELL	3 RD CLEANER # 5	5.1 m3	1	1	15	15	460	0.945	0.70	0.82	94%	19.4	19.4	13.6	11.1	11.1	91.5					
230	LU	007	LUBE UNIT	REGRIND MILL # 1		1	1	7.8	7.8	460	0.945	0.80	0.82	94%	10.1	10.1	8.1	6.6	6.6	54.4					
230	LU	008	LUBE UNIT	REGRIND MILL # 2		1	1	7.8	7.8	460	0.945	0.80	0.82	94%	10.1	10.1	8.1	6.6	6.6	54.4					
230	MM	003	MILL	REGRIND TOWER # 1	4.27 m x 6.87 m	1	1	745	745	4,000	0.93	0.80	0.875	94%	915.5	915.5	732.4	640.9	640.9	5,277.1					
230	MM	004	MILL	REGRIND TOWER # 2	4.27 m x 6.87 m	1	1	745	745	4,000	0.93	0.80	0.875	94%	915.5	915.5	732.4	640.9	640.9	5,277.1					
230	PU	010	PUMP	REGRIND CYCLONE FEED	21 x 12	1	1	223.7	223.7	4,000	0.917	0.40	0.855	94%	285.3	285.3	114.1	97.6	97.6	803.5					
230	PU	011	PUMP	REGRIND CYCLONE FEED - STANDBY	21 x 12	1	0	223.7	223.7	4,000	0.917	0.40	0.855	94%	285.3	-	-	-	-	-					
230	PU	012	PUMP	REGRIND CIRCULATION	150mm	1	1	74.6	74.6	460	0.945	0.80	0.82	94%	96.3	96.3	77.0	63.2	63.2	520.0					
230	PU	013	PUMP	REGRIND CIRCULATION	150mm	1	1	74.6	74.6	460	0.945	0.80	0.82	94%	96.3	96.3	77.0	63.2	63.2	520.0					
230	PU	014	PUMP	REGRIND MILL AREA SUMP	6"	1	1	22.4	22.4	460	0.945	Y	0.80	0.82	20%	28.9	28.9	23.1	19.0	19.0	33.2				
230	PU	015	PUMP	1 ST CLEANER FEED	12 x 10	1	1	93.2	93.2	460	0.945	0.80	0.82	94%	120.3	120.3	96.2	78.9	78.9	649.7					
230	PU	016	PUMP	2 ST CLEANER FEED - STANDBY	12 x 10	1	0	93.2	93.2	460	0.945	0.80	0.82	94%	120.3	-	-	-	-	-					
230	PU	017	PUMP	1 ST CLEANER CONCENTRATE	6 x 4	1	1	18.6	18.6	460	0.945	0.40	0.82	94%	24.0	24.0	9.6	7.9	7.9	64.8					
230	PU	018	PUMP	2 ST CLEANER CONCENTRATE - STANDBY	6 x 4	1	0	18.6	18.6	460	0.945	0.40	0.82	94%	24.0	-	-	-	-	-					
230	PU	019	PUMP	2 ND CLEANER CONCENTRATE	6 x 4	1	1	18.6	18.6	460	0.945	0.40	0.82	94%	24.0	24.0	9.6	7.9	7.9	64.8					
230	PU	020	PUMP	2 ND CLEANER CONCENTRATE - STANDBY	6 x 4	1	0	18.6	18.6	460	0.945	0.40	0.82	94%	24.0	-	-	-	-	-					
230	PU	021	PUMP	FINAL CONCENTRATE	6 x 4	1	1	14.9	14.9	460	0.945	0.40	0.82	94%	19.2	19.2	7.7	6.3	6.3	51.9					
230	PU	022	PUMP	FINAL CONCENTRATE - STANDBY	6 x 4	1	0	14.9	14.9	460	0.945	0.40	0.82	94%	19.2	-	-	-	-	-					
230	PU	023	PUMP	FINAL CLEANER AREA SUMP	3"	1	1	11.2	11.2	460	0.945	Y	0.80	0.82	20%	14.5	14.5	11.6	9.5	9.5	16.6				
230	PU	024	PUMP	REGRIND CIRCULATION - SPARE	150mm	1	0	74.6	74.6	460	0.945	0.80	0.82	94%	96.3	-	-	-	-	-					
230	PU	028	PUMP	ROUGHER CONCENTRATE SAMPLE TRANSFER		1	1	1.5	1.5	460	0.945	0.80	0.82	94%	1.9	1.9	1.5	1.3	1.3	10.5					
230	PU	029	PUMP	ROUGHER/SCAVENGER TAILINGS SAMPLE TRANSFER		1	1	1.5	1.5	460	0.945	0.80	0.82	94%	1.9	1.9	1.5	1.3	1.3	10.5					
230	PU	030	PUMP	FINAL CONCENTRATE SAMPLE TRANSFER		1	1	1.5	1.5	460	0.945	0.80	0.82	94%	1.9	1.9	1.5	1.3	1.3	10.5					
230	PU	031	PUMP	CLEANER SCAVENGER TAILS SAMPLE TRANSFER		1	1	1.5	1.5	460	0.945	0.80	0.82	94%	1.9	1.9	1.5	1.3	1.3	10.5					
230	PU	033	PUMP	ON STREAM ANALYZER SAMPLE RETURN		1	1	1.5	1.5	460	0.945	0.80	0.82	94%	1.9	1.9	1.5	1.3	1.3	10.5					
230	SA	001	SAMPLER	GRINDING CYCLONE OVERFLOW		1	1	0.75	0.75	460	0.945	0.80	0.82	94%	1.0	1.0	0.8	0.6	0.6	5.2					
230	SA	002	SAMPLER	ROUGHER CONCENTRATE		1	1	0.75	0.75	460	0.945	0.80	0.82	94%	1.0	1.0	0.8	0.6	0.6	5.2					
230	SA	003	SAMPLER	ROUGHER/SCAVENGER TAILINGS		1	1	0.75	0.75	460	0.945	0.80	0.82	94%	1.0	1.0	0.8	0.6	0.6	5.2					
230	SA	004	SAMPLER	FINAL CONCENTRATE		1	1	0.75	0.75	460	0.945	0.80	0.82	94%	1.0	1.0	0.8	0.6	0.6	5.2					
230	SA	005	SAMPLER	CLEANER SCAVENGER TAILS		1	1	0.75	0.75	460	0.945	0.80	0.82	94%	1.0	1.0	0.8	0.6	0.6	5.2					
AREA: 240 CONCENTRATE DEWATERING							67.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.0	313.0		
240	PU	037	PUMP	COPPER CONCENTRATE THICKENER U/F	2 x 1.5	1	1	18.6	18.6	460	0.945	Y	0.80	0.82	94%	24.0	24.0	19.2	15.7	15.7	129.7				
240	PU	038	PUMP	COPPER CONCENTRATE THICKENER U/F - STANDBY	2 x 1.5	1	0	18.6	18.6	460	0.945	0.80	0.82	94%	24.0	-	-	-	-	-					
240	PU	039	PUMP	COPPER CONCENTRATE THICKENER O/F	3 x 2	1	1	3.7	3.7	460	0.945	Y	0.80	0.82	94%	4.8	4.8	3.8	3.1	3.1	25.8				
240	PU	040	PUMP	COPPER CONCENTRATE THICKENER O/F - STANDBY	3 x 2	1	0	3.7	3.7	460	0.945	0.80	0.82	94%	4.8	-	-	-	-	-					
240	PU	043	PUMP	COPPER CONCENTRATE THICKENER AREA SUMP	4"	1	1	18.6	18.6	460	0.945	Y	0.80	0.82	94%	24.0	24.0	19.2	15.7	15.7	129.7				
240	TH	001	THICKENER	COPPER CONCENTRATE	20 m dia.	1	1	4	4	460	0.945	Y	0.80	0.82	94%	5.2	5.2	4.1	3.4	3.4	27.9				
AREA: 250 FILTER PLANT							792.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	503.2	2,008.4
250	AG	002	AGITATOR	COPPER CONCENTRATE FILTER FEED TANK		1	1	18.6	18.6	460	0.945	Y	0.80	0.82	85%	24.0	24.0	19.2	15.7	15.7	117.2				
250	CK	006	CRANE	FILTER BUILDING UNDERSLUNG CRANE	7m SPAN, 9.5m LIFT / 5 TONNE	1	1	6.1	6.1	460	0.945	0.80	0.82	20%	7.9	7.9	6.3	5.2	5.2	9.0					
250	CO	003	COMPRESSOR	FILTER DRYING		1	1	160	160	460	0.945	0.80	0.82	25%	206.5	206.5	165.2	135.4	135.4	296.6					
250	CO	004	COMPRESSOR	FILTER PRESSING		1	1	110	110	460	0.945	0.80	0.82	85%	142.0	142.0	113.6	93.1	93.1	693.4					
250	CV	007	CONVEYOR	COPPER CONCENTRATE STOCKPILE FEED	0.533m x 68.2 m x 12.9m LIFT	1	1	3.7	3.7	460	0.945	0.80	0.82	85%	4.8	4.8	3.8	3.1	3.1	23.3					
250	FE	006	FEEDER	COPPER CONCENTRATE FILTER DISCHARGE		1	1	7.5	7.5	460	0.945	0.80	0.82	85%	9.7	9.7	7.7	6.3	6.3	47.3					
250	FL	001	FILTER	COPPER CONCENTRATE PRESSURE	3.2m DIA. 8 DISC / 28.5 MTPH	1	1	90	90	460	0.945	0.80	0.82	85%	116.1	116.1	92.9	76.2	76.2	567.3					
250	PU	047	PUMP	COPPER CONCENTRATE FILTER FEED		1	1	90	90	460	0.945	0.80	0.82	15%	116.1	116.1	92.9	76.2	76.2	100.1					
250	PU	048	PUMP	COPPER CONCENTRATE FILTER FEED - STANDBY		1	0	90	90	460	0.945	0.80	0.82	15%	116.1	-	-	-	-	-					
250	PU	049	PUMP	COPPER FILTER CLOTH WASH WATER	MODEL 55 OH KROGH 1.5 x 9	1	1	18.5	18.5	460	0.945	0.80	0.82	15%	23.9	23.9	19.1	15.7	15.7	20.6					
250	PU	050	PUMP	COPPER FILTER CLOTH WASH WATER - Standby	MODEL 55 OH KROGH 1.5 x 9	1	0	18.5	18.5	460	0.945	0.80	0.82	15%	23.9	-	-	-	-	-					
250	PU	051	PUMP	COPPER FILTER MANIFOLD FLUSH	NASH MODEL 904L2	1	1	90	90	460	0.945	0.80	0.82	20%	116.1	116.1	92.9	76.2	76.2	133.5					
250	PU	052	PUMP	COPPER FILTER MANIFOLD FLUSH-STANDBY		1	0	90	90	460	0.945	0.80	0.82	85%	116.1	-	-	-	-	-					
AREA: 260 REAGENTS HANDLING AND STORAGE							1,695.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	761.2	5,922.5
260	AG	005	AGITATOR	XANTHATE MIX TANK		1	1	2.2	2.2	460	0.945	0.80	0.82	94%</											

Equipment Number	Equipment Type	Equipment Description	Size / Capacity	Qty	Op.	VS	Installed kW Each	Total Instd kW	Motor Rating	Motor Eff	Emerg Power	% Draw	PF	Op. Time %	Installed kVA	Peak kVA Draw	Running kVA	Peak kW	Running kW	MWhr/Year		
260	PU	076	PUMP	FROTHER METERING # 1	1	1	Y	0.37	0.37	460	0.945		0.80	0.82	94%	0.5	0.5	0.4	0.3	0.3	2.6	
260	PU	077	PUMP	FROTHER METERING # 2	1	1	Y	0.37	0.37	460	0.945		0.80	0.82	94%	0.5	0.5	0.4	0.3	0.3	2.6	
260	PU	078	PUMP	FROTHER METERING # 3	1	1	Y	0.37	0.37	460	0.945		0.80	0.82	94%	0.5	0.5	0.4	0.3	0.3	2.6	
260	PU	079	PUMP	FROTHER METERING # 4	1	1	Y	0.37	0.37	460	0.945		0.80	0.82	94%	0.5	0.5	0.4	0.3	0.3	2.6	
260	PU	080	PUMP	FROTHER METERING # 5	1	1	Y	0.37	0.37	460	0.945		0.80	0.82	94%	0.5	0.5	0.4	0.3	0.3	2.6	
260	PU	081	PUMP	FROTHER METERING # 6	1	1	Y	0.37	0.37	460	0.945		0.80	0.82	94%	0.5	0.5	0.4	0.3	0.3	2.6	
260	PU	082	PUMP	FROTHER AREA SUMP	1	1		7.5	7.5	460	0.945		0.80	0.82	10%	9.7	9.7	7.7	6.3	6.3	5.6	
260	AG	007	AGITATOR	TEST REAGENT MIX TANK	1	1		2.2	2.2	460	0.945		0.80	0.82	94%	2.8	2.8	2.3	1.9	1.9	15.3	
260	AG	008	AGITATOR	TEST REAGENT DAY TANK	1	1		2.2	2.2	460	0.945		0.80	0.82	94%	2.8	2.8	2.3	1.9	1.9	15.3	
260	FA	013	FAN	TEST REAGENT TANKS EXHAUST	1	1		0.75	0.75	460	0.945		0.80	0.82	94%	1.0	1.0	0.8	0.6	0.6	5.2	
260	PU	083	PUMP	TEST REAGENT DAY TANK TRANSFER	1	1		2.2	2.2	460	0.945		0.80	0.82	75%	2.8	2.8	2.3	1.9	1.9	12.2	
260	PU	084	PUMP	TEST REAGENT DAY TANK TRANSFER - STANDBY	1	0		2.2	2.2	460	0.945		0.80	0.82	75%	2.8	-	-	-	-	-	
260	PU	085	PUMP	TEST REAGENT HEAD TANK TRANSFER	1	1		2.2	2.2	460	0.945		0.80	0.82	75%	2.8	2.8	2.3	1.9	1.9	12.2	
260	PU	086	PUMP	TEST REAGENT HEAD TANK TRANSFER - STANDBY	1	0		2.2	2.2	460	0.945		0.80	0.82	75%	2.8	-	-	-	-	-	
260	PU	087	PUMP	TEST REAGENT METERING # 1	1	1	Y	0.37	0.37	460	0.945		0.80	0.82	94%	0.5	0.5	0.4	0.3	0.3	2.6	
260	PU	088	PUMP	TEST REAGENT METERING # 2	1	1	Y	0.37	0.37	460	0.945		0.80	0.82	94%	0.5	0.5	0.4	0.3	0.3	2.6	
260	PU	089	PUMP	TEST REAGENT METERING # 3	1	1	Y	0.37	0.37	460	0.945		0.80	0.82	94%	0.5	0.5	0.4	0.3	0.3	2.6	
260	PU	090	PUMP	TEST REAGENT METERING # 4	1	1	Y	0.37	0.37	460	0.945		0.80	0.82	94%	0.5	0.5	0.4	0.3	0.3	2.6	
260	PU	091	PUMP	TEST REAGENT METERING # 5	1	1	Y	0.37	0.37	460	0.945		0.80	0.82	94%	0.5	0.5	0.4	0.3	0.3	2.6	
260	PU	092	PUMP	TEST REAGENT METERING # 6	1	1	Y	0.37	0.37	460	0.945		0.80	0.82	94%	0.5	0.5	0.4	0.3	0.3	2.6	
260	PU	093	PUMP	TEST REAGENT AREA SUMP	1	1		7.5	7.5	460	0.945		0.80	0.82	10%	9.7	9.7	7.7	6.3	6.3	5.6	
260	AG	009	AGITATOR	FLOCCULANT MIX TANK	1	1		1.5	1.5	460	0.945		0.80	0.82	94%	1.9	1.9	1.5	1.3	1.3	10.5	
260	PU	095	PUMP	FLOCCULANT TRANSFER	1	1		2.2	2.2	460	0.945		0.80	0.82	94%	2.8	2.8	2.3	1.9	1.9	15.3	
260	PU	096	PUMP	FLOCCULANT TRANSFER - STANDBY	1	0		2.2	2.2	460	0.945		0.80	0.82	94%	2.8	-	-	-	-	-	
260	PU	097	PUMP	FLOCCULANT DISTRIBUTION	1	1	Y	0.75	0.75	460	0.945		0.80	0.82	94%	1.0	1.0	0.8	0.6	0.6	5.2	
260	PU	098	PUMP	FLOCCULANT DISTRIBUTION - STANDBY	1	0	Y	0.75	0.75	460	0.945		0.80	0.82	94%	1.0	-	-	-	-	-	
260	PU	099	PUMP	FLOCCULANT AREA SUMP	1	1		7.5	7.5	460	0.945		0.80	0.82	10%	9.7	9.7	7.7	6.3	6.3	5.6	
260	PK	001	D	BIN	LIME ACTIVATOR	1	1		1.1	1.1	460	0.945		0.80	0.82	94%	1.4	1.4	1.1	0.9	0.9	7.7
260	PK	001	E	FEEDER	LIME SCREW	1	1	Y	0.75	0.75	460	0.945		0.80	0.82	94%	1.0	1.0	0.8	0.6	0.6	5.2
260	PK	001	F	SLAKER	LIME DETENTION	1	1		1.5	1.5	460	0.945		0.80	0.82	94%	1.9	1.9	1.5	1.3	1.3	10.5
260	PK	001	H	PUMP	LIME SLAKER DISCHARGE	1	1		1.5	1.5	460	0.945		0.80	0.82	94%	1.9	1.9	1.5	1.3	1.3	10.5
260	PK	001	I	PUMP	LIME SLAKER DISCHARGE - STANDBY	1	0		1.5	1.5	460	0.945		0.80	0.82	94%	1.9	-	-	-	-	-
260	AG	010	AGITATOR	LIME SLURRY STORAGE TANK	1	1		7.5	7.5	460	0.945		0.80	0.82	94%	9.7	9.7	7.7	6.3	6.3	52.3	
260	PU	100	PUMP	LIME SLURRY LOOP	1	1		5.6	5.6	460	0.945		0.80	0.82	94%	7.2	7.2	5.8	4.7	4.7	39.0	
260	PU	101	PUMP	LIME SLURRY LOOP - STANDBY	1	0		5.6	5.6	460	0.945		0.80	0.82	94%	7.2	-	-	-	-	-	
260	PU	102	PUMP	LIME AREA SUMP	1	1		7.5	7.5	460	0.945		0.80	0.82	10%	9.7	9.7	7.7	6.3	6.3	5.6	
260	BL	001	BLOWER	FLOTATION AIR # 1	1	1		596.6	596.6	4,000	0.93		0.80	0.865	94%	741.6	741.6	593.3	513.2	513.2	4,225.9	
260	BL	003	BLOWER	FLOTATION AIR # 2 - STANDBY	1	0		596.6	596.6	4,000	0.93		0.80	0.865	94%	741.6	-	-	-	-	-	
260	CO	005	COMPRESSOR	PLANT AIR	1	1		186.4	186.4	460	0.945	Y	0.80	0.82	94%	240.5	240.5	192.4	157.8	157.8	1,299.4	
260	CO	006	COMPRESSOR	PLANT AIR - STANDBY	1	0		186.4	186.4	460	0.945		0.80	0.82	94%	240.5	-	-	-	-	-	
260	PU	105	PUMP	COMPRESSOR AREA SUMP	1	1		7.5	7.5	460	0.945		0.80	0.82	10%	9.7	9.7	7.7	6.3	6.3	5.6	
AREA: 650 WATER SUPPLY AND DISTRIBUTION								2,520.4												1,352.3	11,612.5	
650	PU	110	PUMP	RECLAIM WATER VERTICLE TURBINE	1	1		298.2	298.2	4,000	0.93		0.80	0.865	100%	370.7	370.7	296.6	256.5	256.5	2,247.1	
650	PU	111	PUMP	RECLAIM WATER VERTICLE TURBINE	1	1		298.2	298.2	4,000	0.93		0.80	0.865	100%	370.7	370.7	296.6	256.5	256.5	2,247.1	
650	PU	112	PUMP	RECLAIM WATER VERTICLE TURBINE	1	1		298.2	298.2	4,000	0.93		0.80	0.865	100%	370.7	370.7	296.6	256.5	256.5	2,247.1	
650	PU	113	PUMP	RECLAIM WATER VERTICLE TURBINE - STANDBY	1	0		298.2	298.2	4,000	0.93		0.80	0.865	100%	370.7	-	-	-	-	-	
650	PU	114	PUMP	FRESH WATER DISTRIBUTION	1	1		18.6	18.6	460	0.945	Y	0.80	0.82	100%	24.0	24.0	19.2	15.7	15.7	137.9	
650	PU	115	PUMP	FRESH WATER DISTRIBUTION - STANDBY	1	0		18.6	18.6	460	0.945		0.80	0.82	100%	24.0	-	-	-	-	-	
650	PU	116	PUMP	FIRE WATER REFILL PORTABLE SUBMERSIBLE	1	1		29.8	29.8	460	0.945		0.80	0.82	10%	38.5	38.5	30.8	25.2	25.2	22.1	
650	PU	117	PUMP	PROCESS WATER DISTRIBUTION	1	1		596.8	596.8	4,000	0.93		0.80	0.865	100%	741.9	741.9	593.5	513.4	513.4	4,497.2	
650	PU	118	PUMP	PROCESS WATER DISTRIBUTION-STANDBY	1	0		596.8	596.8	4,000	0.93		0.80	0.865	100%	741.9	-	-	-	-	-	
650	PU	120	PUMP	GLAND SEAL WATER	1	1		11.2	11.2	460	0.945	Y	0.80	0.82	100%	14.5	14.5	11.6	9.5	9.5	83.1	
650	PU	121	PUMP	GLAND SEAL WATER-STANDBY	1	0		11.2	11.2	460	0.945		0.80	0.82	100%	14.5	-	-	-	-	-	
650	PU	135	PUMP	FRESH WATER WELL	1	1		18.6	18.6	460	0.945		0.80	0.82	85%	24.0	24.0	19.2	15.7	15.7	117.2	
650	PU	136	PUMP	FRESH WATER WELL - STANDBY	1	0		18.6	18.6	460	0.945		0.80	0.82	85%	24.0	-	-	-	-	-	
650	PU	137	PUMP	POTABLE WATER	1	1		3.7	3.7	460	0.945		0.80	0.82	50%	4.8	4.8	3.8	3.1	3.1	13.7	
650	PU	138	PUMP	POTABLE WATER - STANDBY	1	0		3.7	3.7	460	0.945		0.80	0.82	50%	4.8	-	-	-	-	-	
ANCILLARY FACILITIES								1,200.0												1,000.0	8,760.0	
				ADMINISTRATION/WAREHOUSE																		
				ADMIN OFFICES				1200	1200					100%					1,200.0	1,000.0	8,760.0	
				WASHROOMS																		
				ENGINEERING OFFICES																		
				FIRST AID CLINIC																		
				WAREHOUSE																		
				LABORATORY																		
				GATEHOUSE/WEIGHSCALE																		
				FUEL STORAGE																		
				CONCENTRATE FILT. PLNT STOR. & LOADOUT																		
				YARD LIGHTING																		
				MINE MAINTENANCE FACILITY																		
				HEAVY VEHICLE SHOP																		
				OFFICES																		
				DRY																		
				FUEL TANKS, REC & DISPEN.																		
				YARD LIGHTING																		
				CONCENTRATOR FACILITIES																		
				OFFICES																		
				LUNCH ROOM																		
				MET LAB																		
				REAGENT PREP</																		