

Report

Scoping Study

H363617-TSO-0006-240-066-0001

2021-08-12	A	Client Review	M. Haapalainen	PP N. Wallace	B. Rustad	Not Required
DATE YYYY-MM-DD	REV.	STATUS	PREPARED BY	CHECKED BY	APPROVED BY	APPROVED BY
				Discipline Lead	Functional Manager	Client

H363617-TSO-0006-240-066-0001, Rev. A,

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Executive Summary

Eagle Gold has experienced a higher percentage of fines, during early operations, than was expected. The ROM particle size distribution (PSD) is different to what was designed for. As such, the secondary/tertiary finer fraction of material is higher than expected. It has been proposed to install a scalping screen to by-pass fines subsequent to the tertiary crushing circuit and transfer fines directly to the heap leach.

This Scoping Study focusses on by-passing of fines by incorporation of a new intermediate scalping screen. The ultimate aim is to improve the overall efficiency of the Eagle Gold Mine processing and material handling facility, by eliminating unnecessary recycling of fines that are suitable to be transported directly to the heap leach. This study has developed a conceptual design to identify the required equipment and modification to the existing layout and developed an Order-of-Magnitude (OoM) CAPEX/OPEX estimate and timeline to execute the next phase of engineering.

This report does not analyse the impact on gold recovery or leach operation for a P50 of 8.5 mm.

Table ES-1 lists new and modified equipment encompassed within the new fines screening facility.

Table ES-1: Equipment List for the Fines Screening Facility

	Description	Equipment No.	Size (mm)	Capacity (tph)	Comment
1	Conveyor, Tertiary Crushing Feed #1 (existing)	3320-CV-016	1829 x 42906	5648	Extended
2	Head Chute	3320-CH-060			New
3	Conveyor, Tertiary Crushing Stockpile Feed (existing)	3330-CV-019	1829 x 64865	5648	Extended
4	Conveyor, Fines screening Bypass	3330-CV-023	1828 x 15375	5648	New
5	Head Chute	3320-CH-061			New
6	Conveyor, Fines Screening Undersize #1	3330-CV-024	1219 x 35920	1541	New
7	Head Chute	3320-CH-062			New
8	Conveyor, Fines Screening Undersize #2	3330-CV-025	1219 x 38750	1541	New
9	Head Chute	3320-CH-063			New
10	Conveyor, Fines Screening Oversize	3330-CV-026	1219 x 19650	2895	New
11	Head Chute	3320-CH-064			New
12	Conveyor, Fines Screening Undersize Bypass	3330-CV-027	1219 x 88200	1541	New
13	Head Chute	3320-CH-065			New
14	Fines Scalping Screen	3340-SC-005	9080 x 5484 x 6855		New

	Description	Equipment No.	Size (mm)	Capacity (tph)	Comment
15	Feed Chute	3340-CH-066	1660 x 3800 x 2250		New
16	Undersize Chute	3340-CH-067	8705 x 4300 x 8520		New
17	Oversize Chute	3340-CH-068	3000 x 4350 x 6500		New
18	Dust Collector & Fan	3340-DC-004		6,000 cfm	New
19	Dustmaster mixer system	3340-MX-002	1750 x 2870 x 1170	20	New

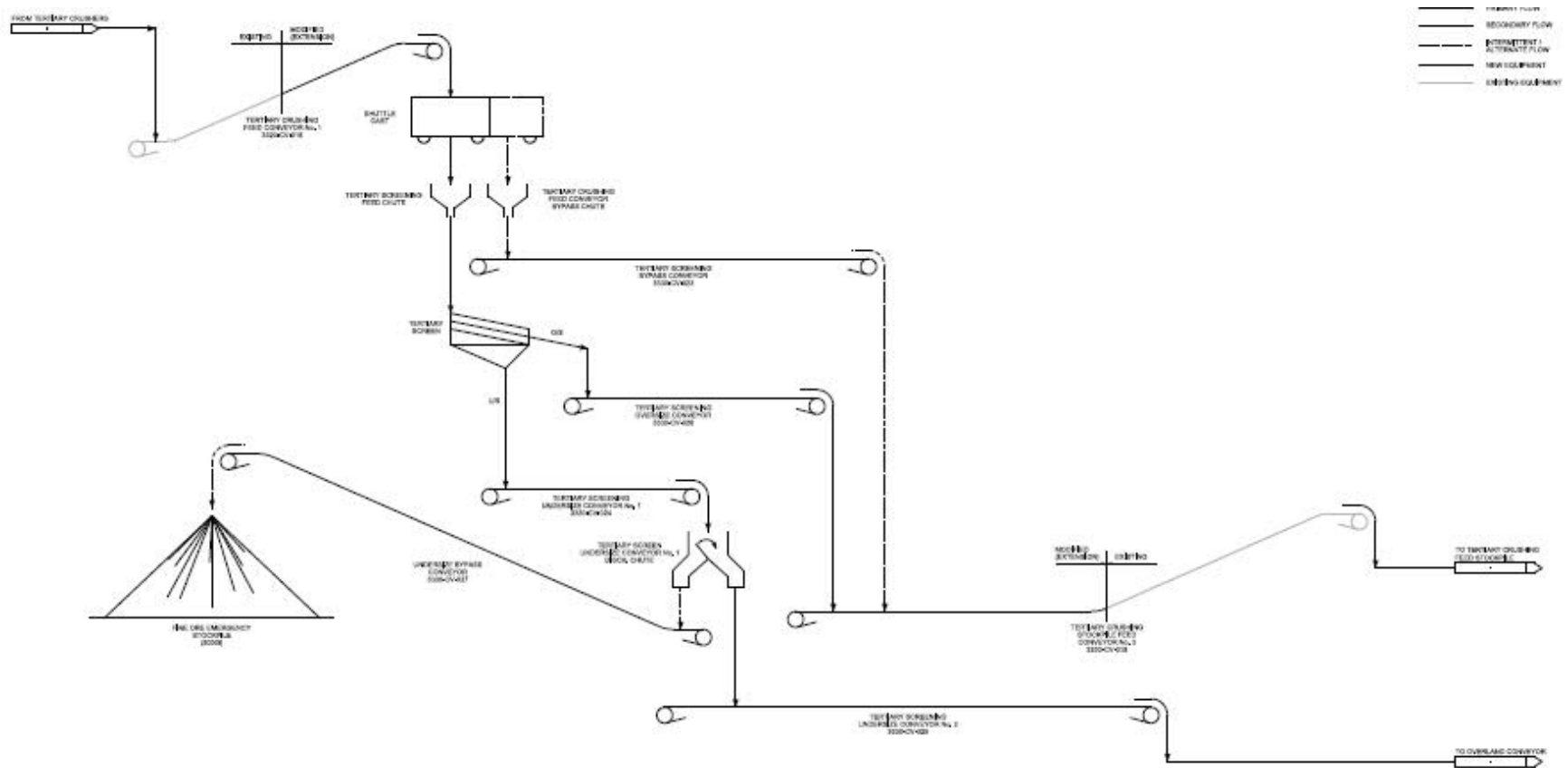


Figure ES-1: Fines Screening Flow Sheet

Bruno simulations were performed on several scenarios, including with agglomeration. The final selected version is reflected in the above flow sheet and validating the concept.

Agglomeration, while conceptually viable, was eliminated from further analysis due to the requirements for drying the pellets during winter operation and the logistical and cost challenges for supplying the amount of binder required.

The Bruno simulation for the selected circuit design is illustrated in Figure ES-2.

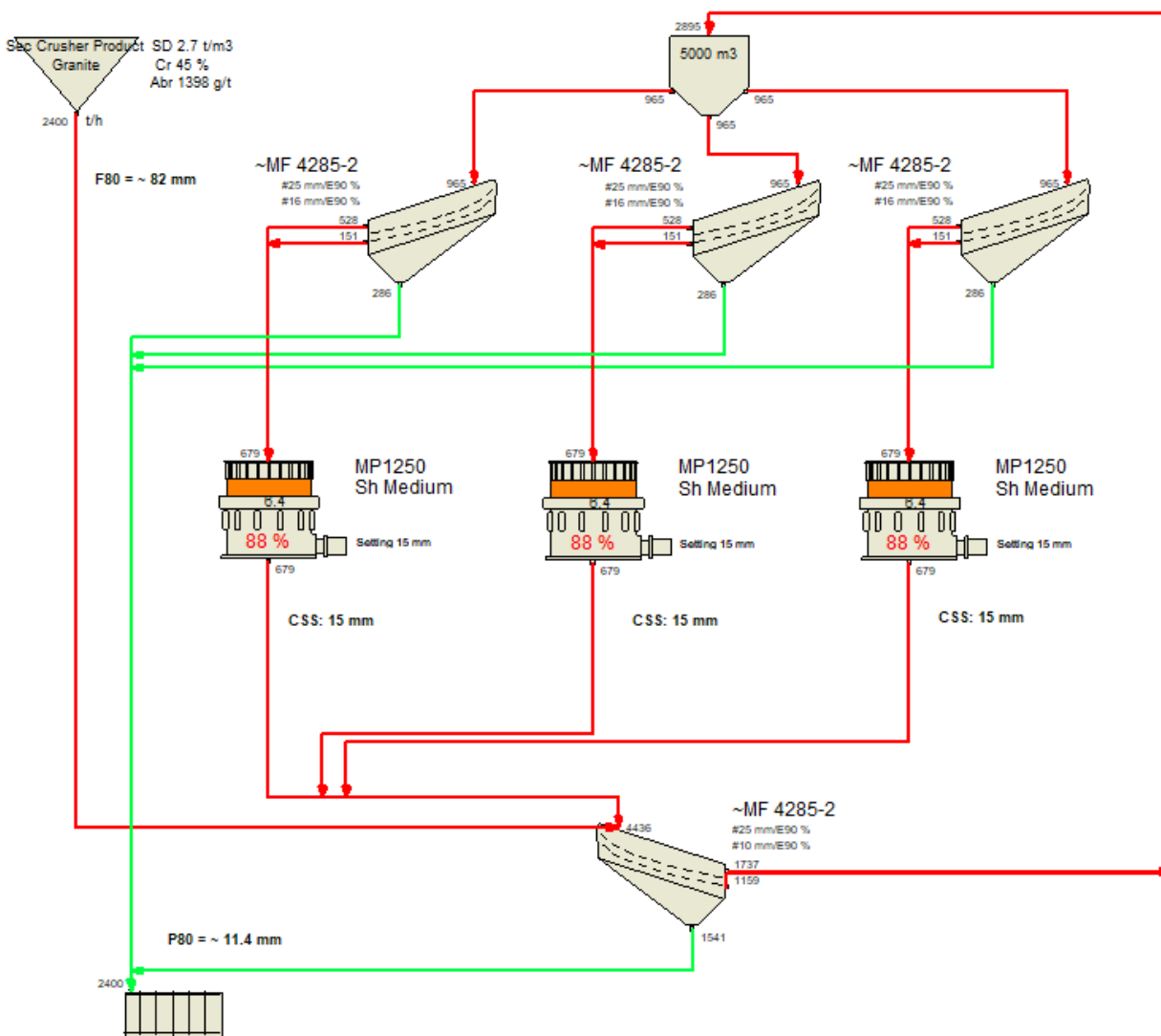


Figure ES-2: Fines Screening Bruno Simulation

CAPEX Order of Magnitude costs were calculated based on the above flow sheet and equipment list and are summarized in Table ES-2.

Table ES-2: CAPEX for the Fines Screening Facility

Capex Cost Estimate - Summary	
Tonne per Year	14,192,640
Description	CAPEX CAD (m)
Screen	2.14
Conveyors	2.92
Screening Facility including OH Crane & Dust collection	5.85
TOTAL FINES SCREENING COST	10.91
CAPITAL SPARES (5%)	0.05
SUB TOTAL (DIRECT COSTS)	10.96
CONSTRUCTION INDIRECTS (15%)	1.64
ENGINEERING AND CONSTRUCTION (18%)	\$1.97
CONTINGENCY (25%)	\$2.74
TOTAL ESTIMATED CAPITAL COST (CDN\$)	\$17.32

OPEX Order of Magnitude costs were calculated based on the above flow sheet and equipment list and are summarized in Table ES-3.

Table ES-3: OPEX for the Fines Screening Facility

Operating Cost Estimate - Summary	
Tonne per Year	14,192,640
Description	OPEXCAD
Fixed Labour	\$281,590
Variable labour	\$0
Maintenance materials	\$37,868
Electrical power costs	\$81,182
Other Utilities (water, sewer, gas)	\$100,000
Indirect Overheads (40% of fixed labour)	\$120,000
Total Fines Screening Operating Costs	\$620,640
Operating Cost per tonne	\$0.04

1. Introduction

Victoria Gold has recently completed construction and commissioning of its Eagle Gold Mine and the secondary/tertiary particle size distribution (PSD) is higher than was expected and designed for. As such, the finer fraction of material is higher than expected.

Hatch has been engaged to perform a study to evaluate the viability and CAPEX/OPEX for the installation of a scalping screen to scalp fines from the secondary/tertiary screen undersize conveyor and transfer fines directly to the heap leach feed overland conveyor.

This study is based on the particle size distribution data provided by Victoria Gold and shown in Figure 1-1 and clarified in the commentary below.

Please see the Particle size distributions attached for the CV19 samples collected

The first sample was a 1ft belt cut on CV19 with only secondary crusher product on the belt. The sample mass was 62 kg.

The second sample was a 1 ft belt cut on CV19 also but with Tertiary 2 and 3 running as well as secondary product. This sample mass was 115 kg.

The <1 Inch material in each sample was split and sieved 4 times per sample.

The particle size of the >1 inch rocks from each sample was calculated from the WipFrag software since we do not have equipment to split and test that coarse of rock. The over and undersize distributions were added together to generate the distributions.

Hatch used these distributions and the throughputs at the time of sampling to determine the size distributions from the Tertiary crushers and calculate recirculating loads in the circuit and select the most suitable screen and conveyors.

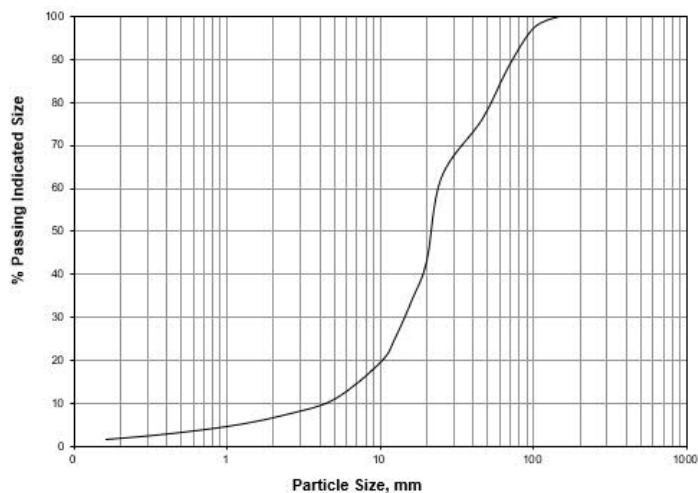
PARTICLE SIZE DISTRIBUTION

Test ID: **SECTER Combined Product 03/30/2021**

TOTAL SAMPLE WEIGHT, g 114,506.00 (Dry)

i	Mesh #	Mesh Opening mm	Retained Weight		Cumm. Passing %
			g	%	
1			0.0	0.0	100.0
2			0.0	0.0	100.0
3			0.0	0.0	100.0
4			0.0	0.0	100.0
5			0.0	0.0	100.0
6			0.0	0.0	100.0
7	147		0.0	0.0	100.0
8	100		3144.6	2.7	97.3
9	68		10516.2	9.2	88.1
10	48		13557.7	11.8	76.2
11	25		15568.1	13.6	62.6
12	20		22401.7	19.6	43.1
13	16		10294.0	9.0	34.1
14	13		9909.5	8.7	25.4
15	10		6556.4	5.7	19.7
16	5		9824.5	8.6	11.1
17	3		3959.6	3.5	7.7
18	1		2655.0	2.3	5.3
19	0		1741.7	1.5	3.8
20	0		1350.3	1.2	2.6
21	0		1017.6	0.9	1.8
22	0		2009.2	1.8	

TOTAL 114506.0 100.0



D₉₀ = 53 mm

D₅₀ = 22 mm

Figure 1-1: Particle Size Distribution Data provided by Victoria Gold

2. Fines Screening Conceptual Layout Development

2.1 Layout Development

The desirability of incorporating the scalping of fines after the secondary/tertiary screen circuit was identified in the previous Technical Limits Review performed by Hatch which also looked at potential locations for this facility. The chosen location and layout allows for the construction of the screening facility without interrupting the operations. This layout only requires tie-in to tertiary crushing feed conveyor 3320-CV-016 and tertiary crushing stockpile feed conveyor 3330-CV-019. These conveyors are both extended. Tie-in for 3320-CV-016 is at the head pulley and drive, which is relocated to the screening facility. The tail pulley of CV-019 is relocated to the new tail position. Sections of new belting will be spliced in to complete the tie-in. It is anticipated that a 2 week shut down will be required to make this tie-in.

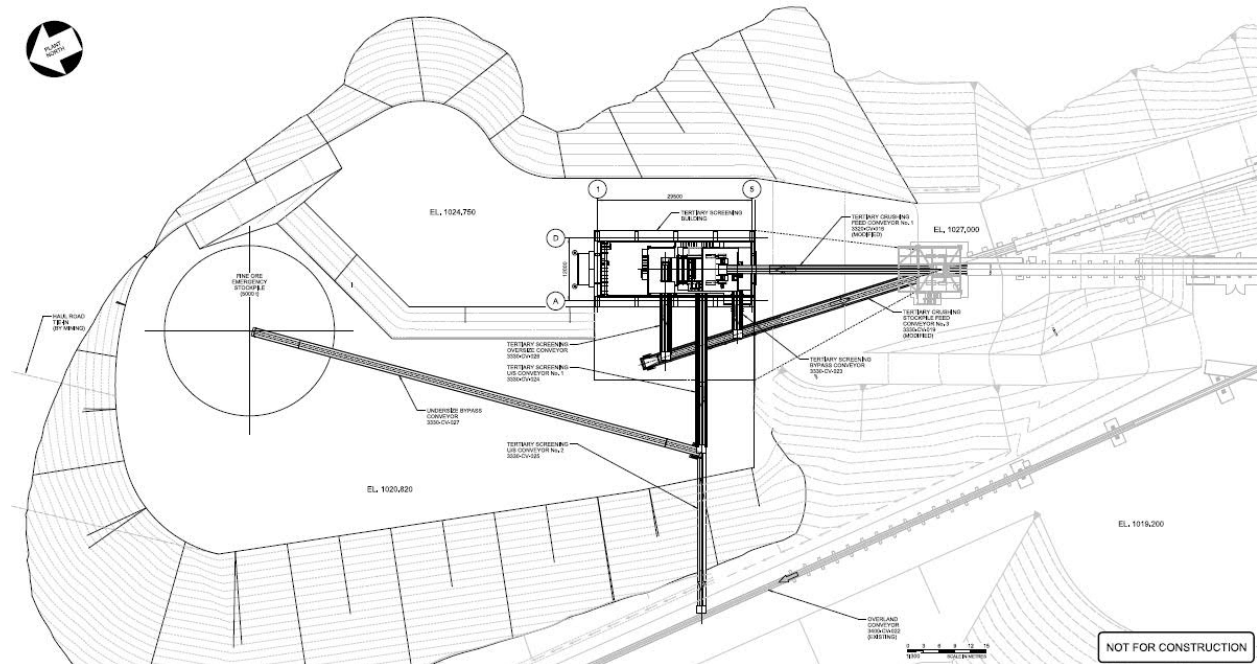


Figure 2-1: Fines Screening Facility Plot Plan

The facility is illustrated in the 3D image in Figure 2-2.

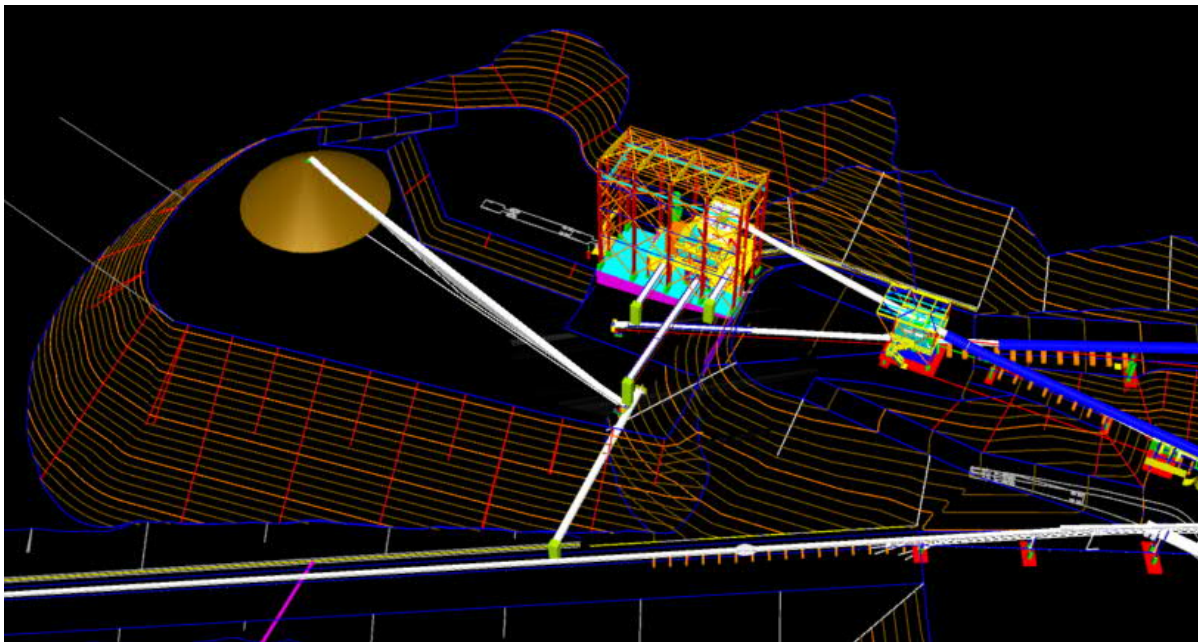


Figure 2-2: Fines Screening Facility 3D Image

2.2 Screening Facility Design

The selected layout and equipment selection is based on the Bruno simulation and to align with existing plant equipment, as they may be suitable and for rationalization of spares. The screen selected is a Mesto MF-4285-2 double deck multi-slope (banana) screen, identical to the current tertiary screens. Similarly the conveyor components, idlers, belting and drives were selected to duplicate the current conveyors. The drives for the new conveyors associated with the screening facility of necessity are unique.

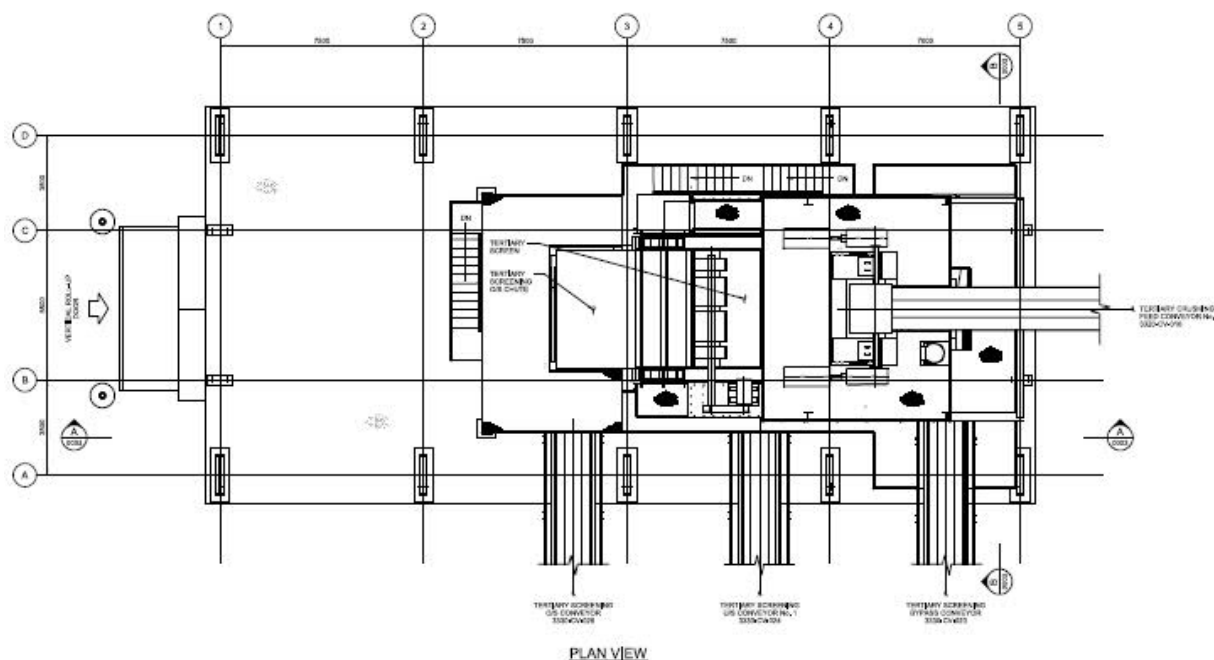
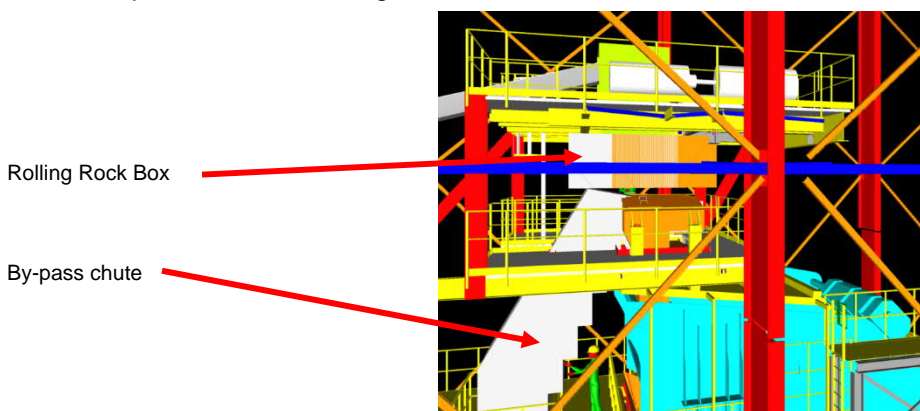
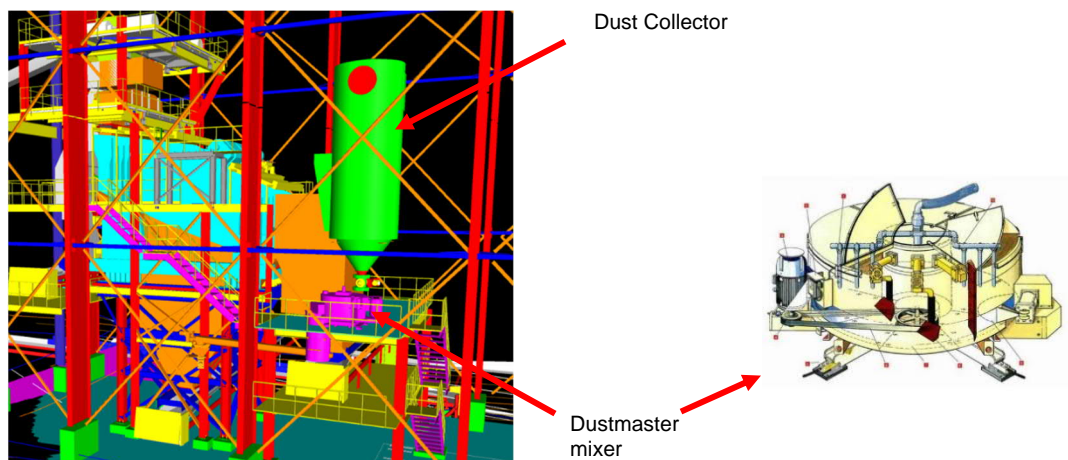


Figure 2-3: Fines Screening Plan at Feed to Screen

To facilitate maintenance of the screen, deck replacements etc., the feed conveyor head chute incorporates a bypass capability utilizing a rolling rock box to direct material to either the screen or the bypass chute to allow material to be sent directly to the fine ore stockpile as per the current arrangement.



A 6,000 cfm dust collector with attendant fan & ducting provides dust collection from the various transfer points and chutes. Dust from the collector hopper is discharged into a Dustmaster mixer system which agglomerates the dust prior to discharging onto the fines transfer conveyor and thence out to the leach pad. This system was chosen to preclude the loss of the dust due to wind as may occur with dry fines in the subsequent conveyor transfer points.



A 10/25 tonne overhead crane is provided to allow for screen maintenance. This crane will also serve the head end drive components for conveyor 3320-CV-016 as well as for chute liner replacement.

2.3 Process Flow Description

The fines scalping screen receives the secondary screen undersize and secondary crusher product plus the tertiary crusher product at 4,436 tph via the extended conveyor 3320-CV-016. The fines scalping double deck screen has a final cut size of 10mm and a calculated P80 of 12mm. The screen oversize of 2,895 tph reports to the transfer conveyor 3330-CV-026 which discharges onto the extended tail of the existing conveyor 3330-CV-019 for transport to the existing fine ore stockpile. For bypassing the screen the rolling rock box directs material onto bypass conveyor 3330-CV-023 which transfers onto conveyor 3330-CV-019. Fines scalping Screen undersize of 1,541 tph reports to the undersize conveyor number 1, 3330-CV-024. The material is transferred either to undersize transfer conveyor number 2, 3330-CV-025 and thence to the leach pad feed overland conveyor 3330-CV-022, or to the undersize bypass conveyor 3330-CV-027 and onto the 5,000 tonne fine ore emergency stockpile. The existing tertiary screen undersize of 858 tph also reports to the overland conveyor via conveyor 3330-CV-017. Total overland conveyor throughput of 2,400 tph reports to the leach pad. The overland conveyor will not need any power increase as the calculated throughput from the Overland Conveyor Company dynamic analysis indicates the current capacity is 2579 t/h.

The flow sheet of fines screening is presented in Appendix D.

Equipment sizes, throughput rates and installed and operating power are listed in Table 2-1.

Table 2-1: Equipment Design Rate and Loading

Equipment #	Description	Throughput (t/h)		Power (hp)	
		Nominal	Design	Installed	Operating
3320-CV-016	Tertiary Crushing Feed Conveyor (1829 belt width)	4707	5648	900	430
3320-CV-019	Tertiary Stockpile Feed Conveyor (1829 belt width)	4707	5648	900	445
3340-SC-005	Tertiary Fines Scalping Screen (4200 x 8500 2 deck)	4472	4436	150	N/A
3330-CV-023	Tertiary Screening By-pass conveyor (1829 belt width)	4436	5648	90	61
3330-CV-024	Tertiary Screening Undersize Conveyor 1 (1219 belt width)	1541	1925	30	13
3330-CV-025	Tertiary Screening Undersize Conveyor 2 (1219 belt width)	1541	1925	55	40
3330-CV-026	Tertiary Screening Oversize Conveyor 2 (1219 belt width)	2895	3320	55	30
3330-CV-027	Tertiary Screening Undersize Bypass Conveyor 1 (1219 belt width)	1541	1925	110	91

3. Capital Cost Estimate

3.1 Basis of Estimate

- Inclusions:
 - ◆ Direct cost estimate for equipment and bulks + 15% growth.
 - ◆ Indirect: 15% of direct costs
 - ◆ EPCM, Construction indirects, Spares, Commissioning, Freight
 - ◆ Contingency: 25% of direct & indirect costs.
- Exclusions:
 - ◆ Site works and site services.
 - ◆ Piping work.
 - ◆ Taxes and Insurance.
 - ◆ Future cost escalation.
 - ◆ Project Benchmarking
 - ◆ Victoria Gold Truck shop.

3.2 Estimate Details

Itemized pricing is based on the following;

1. The screen is identical to the current tertiary screens being a double deck Metso MF 4285-2 and for which budget pricing was solicited from Metso.
2. Conveyor costs were estimated using an in-house Hatch conveyor estimating program that is driven by data base costs for individual components. Drive sizes (horsepower) and component selection is derived from conveyor calculations performed in Sidewinder software.
3. Structural steel quantities were generated by the tool available in the 3D modeling software utilized to generate the models and provides an MTO listing steel in 4 classes; light, medium, heavy & extra heavy for which current truck shop construction unit rates are used.
4. Civil earth works quantities are estimated from a 3D civil model and for which unit rates applied for current the truck shop construction are used.

4. Conclusion and Way Forward

Installing a fines scalping screen between the secondary crusher and screen and the tertiary crusher product conveyor and the fine ore stockpile feed conveyor will result in a potential increase in throughput of the secondary/tertiary crushing and screening system to 2,400 tph and the resultant feed to the leach pad. There are no Technical Limits to prevent the system from achieving the design throughput.

The conceptual layout as developed, allows for the construction of the fines scalping facility complete with all new conveyors, without interruption of the current operation. Conceptually conveyors 3320-CV-016 & 3330-CV-019 can have the required extensions constructed without affecting the operation. These conveyors would have their head pulley & drive and the tail pulley, respectively, moved during final tie-in and immediately prior to the system commissioning. The screening facility equipment can all be pre-commissioned prior to tie-in minimizing the impact to operations.

It is recommended to proceed with detail engineering and procurement of equipment to enable construction starting Q2 of 2022.

Appendix A

Particle Size Distribution Data

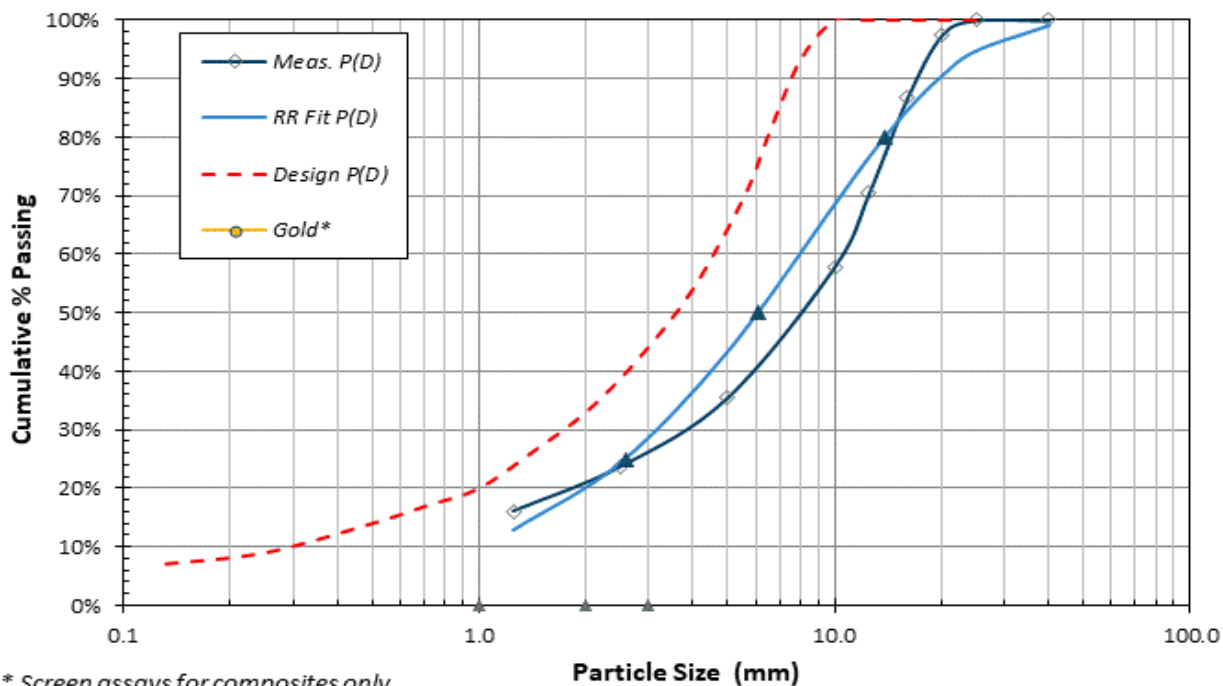
Provided by Victoria Gold

Victoria Gold Eagle Mine

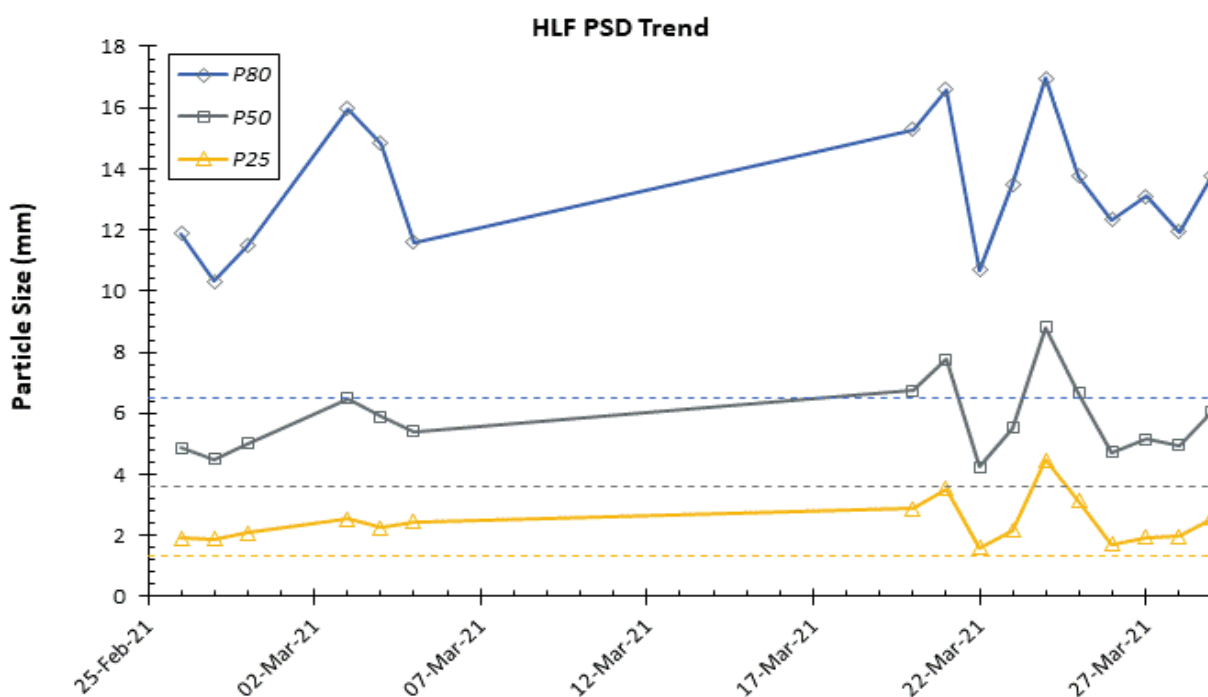
HLF PSD Report

Sample Date: 29-Mar-21
Sample ID: HLF March 29
Location: HLF
Type: Auto
Notes:

%Passing	25%	50%	80%
Calc. Size (mm)	2.6	6.1	13.8



* Screen assays for composites only.



Project : CV19 Belt Cuts
Sample ID : SECTER Combined Product 03/30/2021
Date / Time: 31-Mar-21
Operator : JL
Notes: Secondary Product @ 1400tph
Tertiary 2 Feed @ 1659 tph
Tertiary 3 Feed @ 925 tph
Tert 2 to CV17 @ 454 tph
Tert 3 to CV17 @ 435 tph
CV17 total 889 tph

CV19 total 3095 tph

PARTICLE SIZE DISTRIBUTION

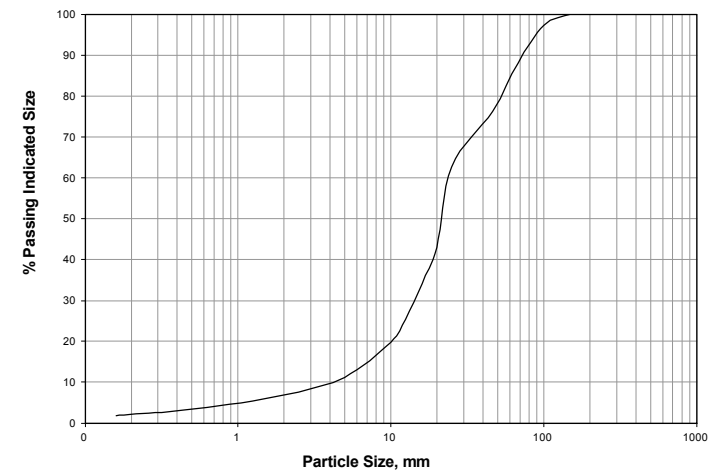
Test ID : SECTER Combined Product 03/30/2021



TOTAL SAMPLE WEIGHT, g 114,506.00 (Dry)

i	Mesh #	Mesh Opening	Retained Weight		Cumm. Passing
		mm	g	%	%
1			0.0	0.0	100.0
2			0.0	0.0	100.0
3			0.0	0.0	100.0
4			0.0	0.0	100.0
5			0.0	0.0	100.0
6			0.0	0.0	100.0
7		147	0.0	0.0	100.0
8		100	3144.6	2.7	97.3
9		68	10516.2	9.2	88.1
10		46	13557.7	11.8	76.2
11		25	15568.1	13.6	62.6
12		20	22401.7	19.6	43.1
13		16	10294.0	9.0	34.1
14		13	9909.5	8.7	25.4
15		10	6556.4	5.7	19.7
16		5	9824.5	8.6	11.1
17		3	3959.6	3.5	7.7
18		1	2655.0	2.3	5.3
19		1	1741.7	1.5	3.8
20		0	1350.3	1.2	2.6
21		0	1017.6	0.9	1.8
22		0	2009.2	1.8	

TOTAL 114506.0 100.0



D₉₀ = 53 mm

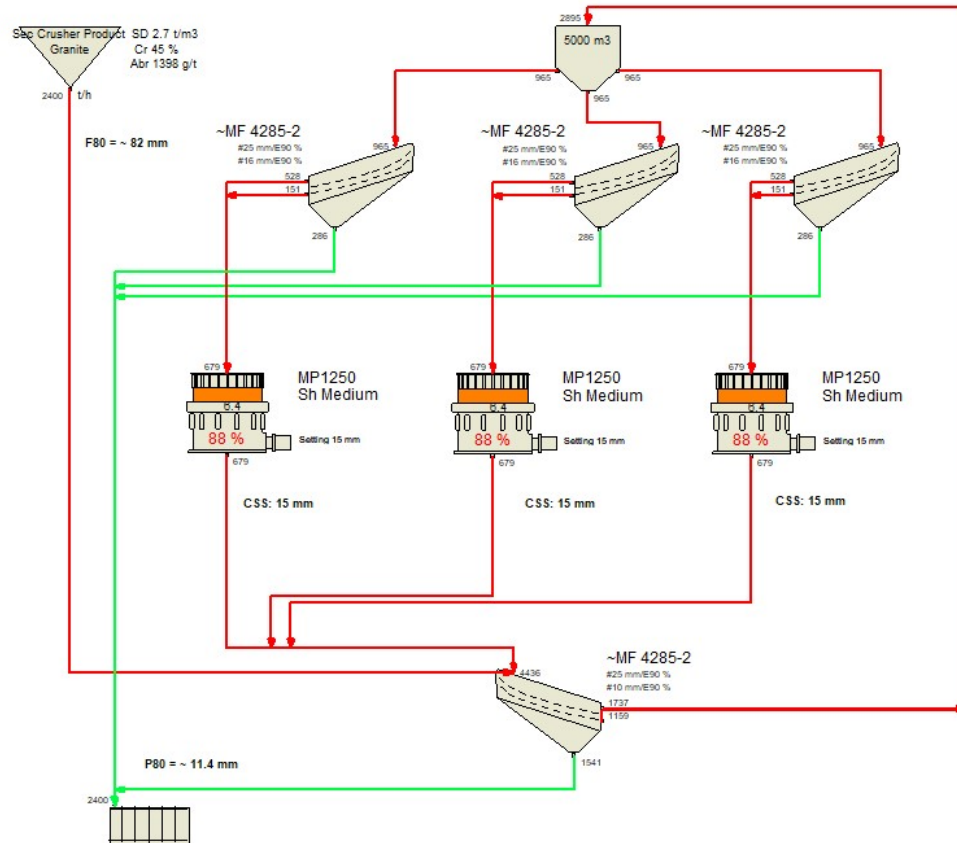
D₅₀ = 22 mm

Notes:

Appendix B

Bruno Simulation

Bruno Simulation – Fines Scalping A Scenario 2



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- **Throughput increased to 2,400 t/h**
- Addition of fines scalping screen with a cut size of 10 mm.
 - P80 of approx. 12 mm.
- **Single screen unit (MF 4285-2) may be required to sustain the additional Circ. Load.**
- **The tonnage sent to the tertiary screens would be reduced in comparison to the base case.**
- Tertiary Crushing Op. Conditions:
 - Tertiary Crusher CSS: 15 mm
 - Screen Top Deck Aperture: 25 mm
 - Screen Bottom Deck Aperture: 16 mm

HATCH

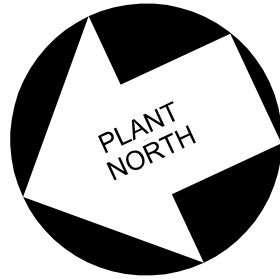
Appendix C

Screening Facility Layout Drawings

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H363617-3330-240-272-0001

DWG. No.



A

B

C

D

E

F

A

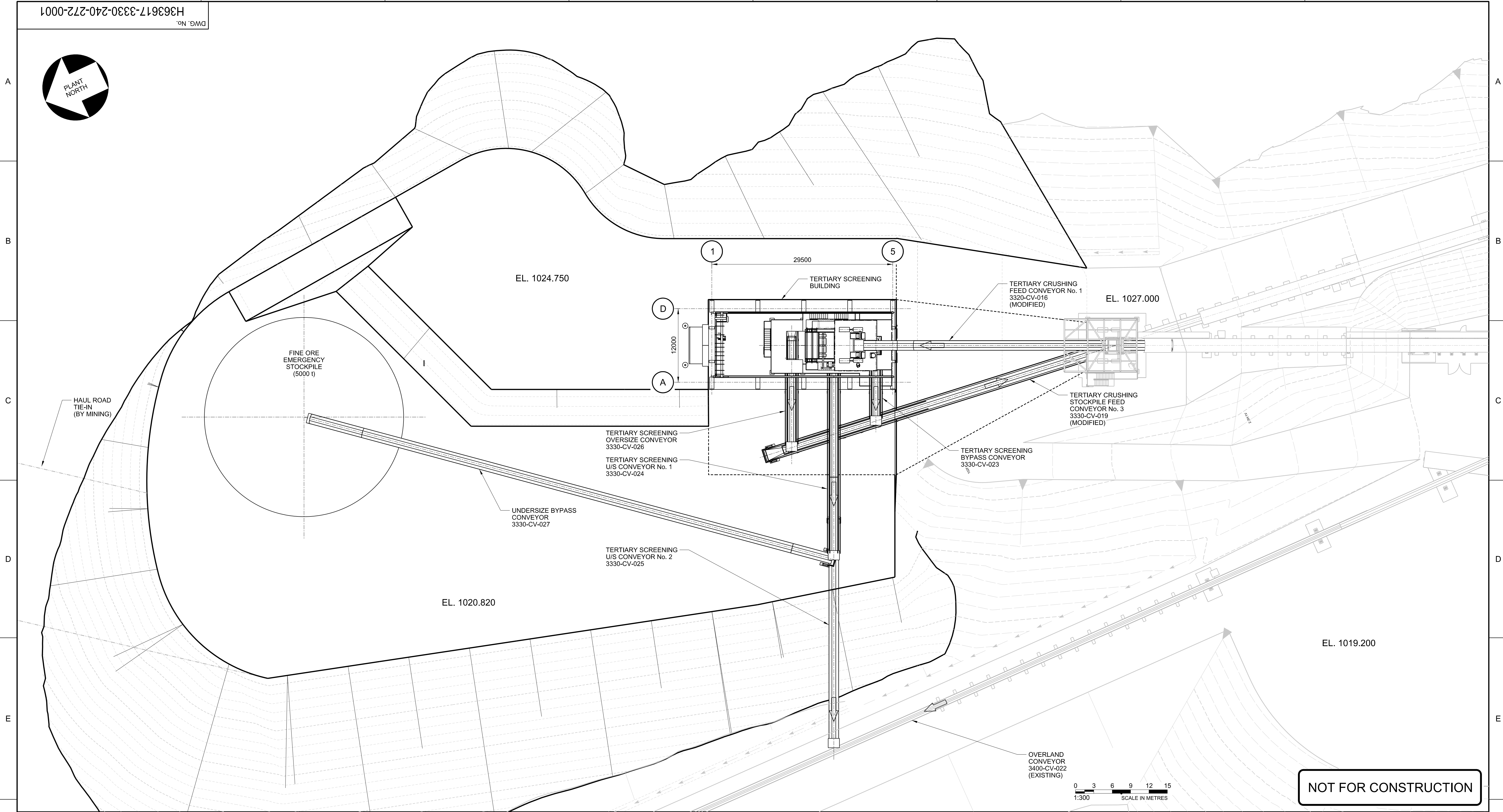
B

C

D

E

F



NOT FOR CONSTRUCTION

0 3 6 9 12 15
1:300 SCALE IN METRES

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Corporation

EAGLE GOLD PROJECT

TRANSFER CONV. & TERT. SCREENING
GENERAL LAYOUT
OVERALL SITE PLAN

DRAFTSPERSON	K. TORIO	NR	2021-05-31
DESIGNER	K. TORIO	NR	2021-05-31
CHECKER	B. ROBINSON		
DESIGN COORD.	B. ROBINSON		
RESP. ENG.	J. MCLEAN		
LEAD DISC. ENG.	J. MCLEAN		
ENG. MANAGER	B. RUSTAD		
PROJ. MANAGER	B. RUSTAD		

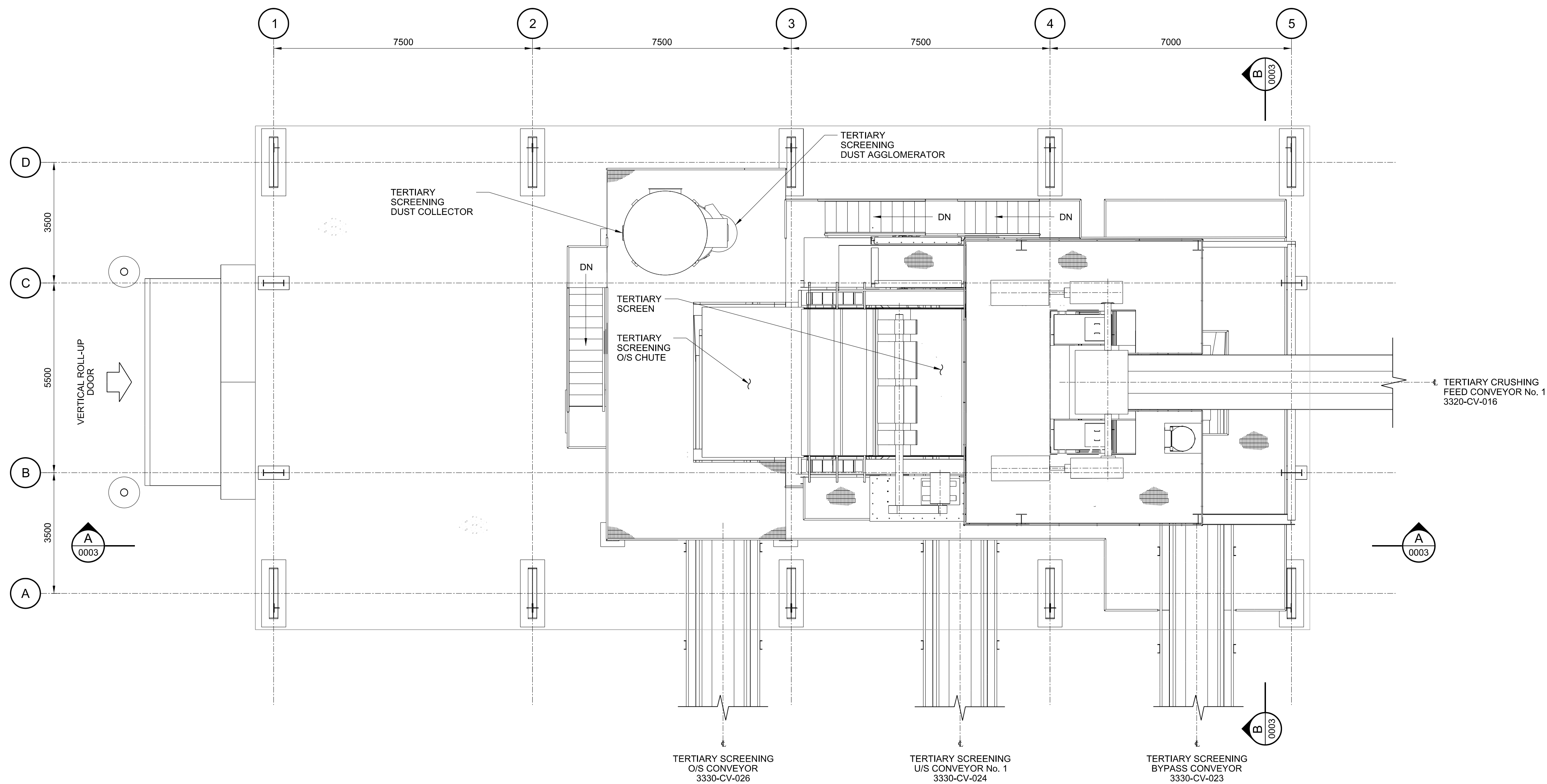
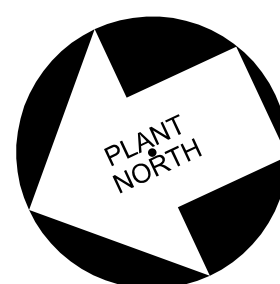
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OR AS NOTED

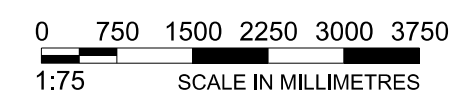
DWG. No.
H363617-3330-240-272-0001

REV
A

SHEET SIZE: D



PLAN VIEW



NOT FOR CONSTRUCTION



EAGLE GOLD PROJECT

TRANSFER CONV. & TERT. SCREENING
GENERAL LAYOUT
PLAN

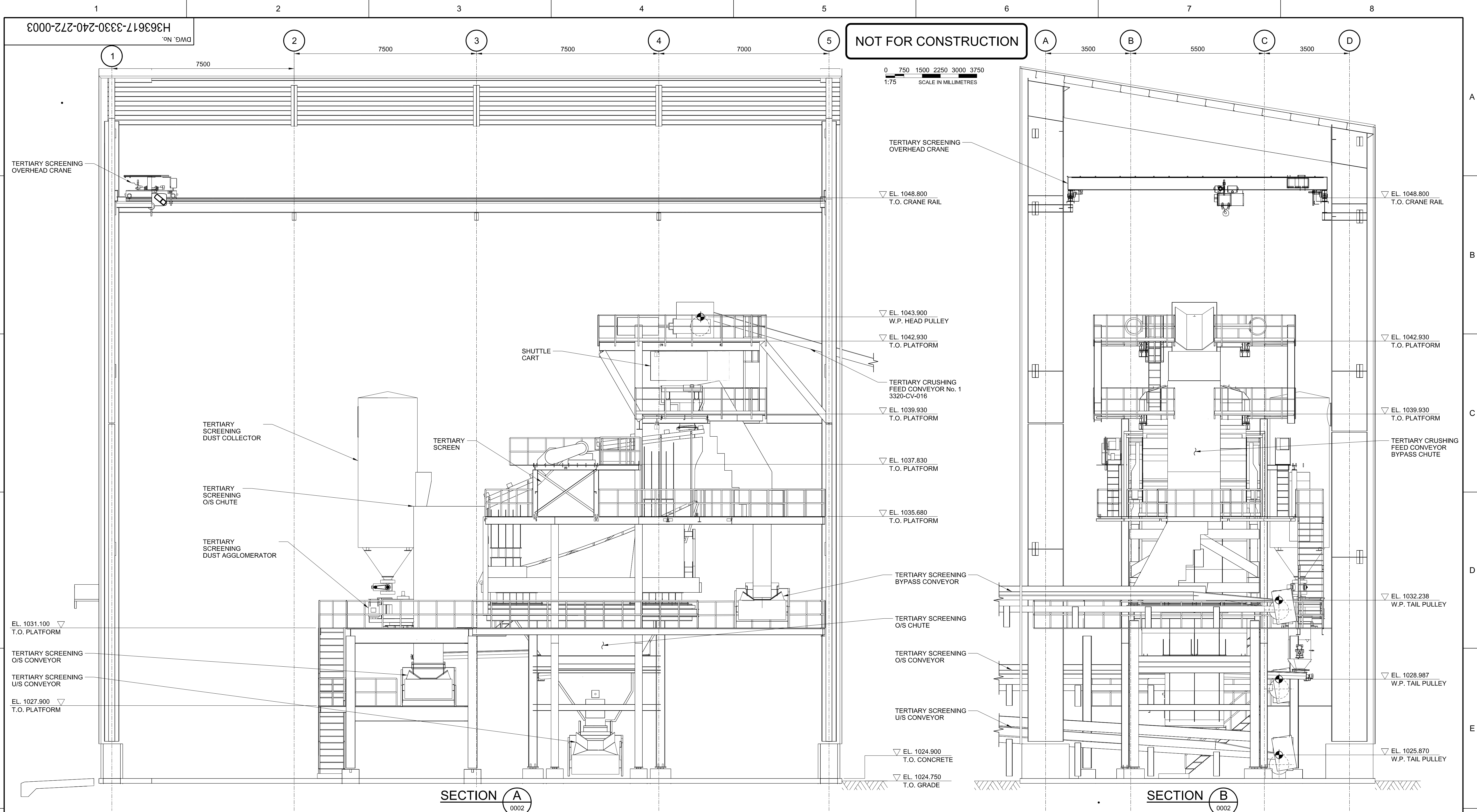
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RE
B

SHEET SIZE: D

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EAGLE GOLD PROJECT

TRANSFER CONV. & TERT. SCREENING
GENERAL LAYOUT
SECTIONS A & B

DRAFTSPERSON	K. TORIO	NR	2021-05-31
DESIGNER	K. TORIO	NR	2021-05-31
CHECKER	B. ROBINSON		
DESIGN COORD.	B. ROBINSON		
RESP. ENG.	J. MCLEAN		
LEAD DISC. ENG.	J. MCLEAN		
ENG. MANAGER	B. RUSTAD		
PROJ. MANAGER	B. RUSTAD		

ROLE	NAME	SIGNATURE & DATE
DRAWING APPROVAL STATUS:	Not Started	

SCALE 1:75 OR AS NOTED	DWG. No. H363617-3330-240-272-0003	REV B
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SHEET SIZE: D

Appendix D

Process Flow Diagram and Updated Mass Balance

Appendix E

CAPEX / OPEX Details

PROJECT NAME:
PROJECT NUMBER:
DATE:
DESIGNER:

Eagle Gold Fines Screening Study
H363617/240/0201

8/3/2021

M. Haapalainen

Capex Cost Estimate - Summary

Tonne per Year	14,192,640 CAPEX CAD
Description	(m)
Screen	2.14
Conveyors	2.92
Screening Facility including OH Crane & Dust collection	5.85
TOTAL FINES SCREENING COST	10.91
CAPITAL SPARES (5%)	0.05
SUB TOTAL (DIRECT COSTS)	10.96
CONSTRUCTION INDIRECTS (15%)	1.64
ENGINEERING AND CONSTRUCTION (18%)	\$1.97
CONTINGENCY (25%)	\$2.74
TOTAL ESTIMATED CAPITAL COST (CDN\$)	\$17.32

Operating Cost Estimate - Summary

Tonne per Year	14,192,640
Description	OPEXCAD
Fixed Labour	\$281,590
Variable labour	\$0
Maintenance materials	\$37,868
Electrical power costs	\$81,182
Other Utilities (water, sewer, gas)	\$100,000
Indirect Overheads (40% of fixed labour)	\$120,000
Total Fines Screening Operating Costs	\$620,640
Operating Cost per tonne	\$0.04

PROJECT NAME:
PROJECT NUMBER:

DATE:
DESIGNER:
ESTIMATE OF CAPITAL COST
CONVEYOR NUMBER:

Eagle Gold Fines Screening Study
H363617/240/0201
8/3/2021
M. Haapalainen
3320-CV-016

DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL MATERIAL	FREIGHT TO JOB SITE	ERECTION AND INSTALLATION	TOTAL COST
Civil/Structural							
Excavation and Grading (62m x 6m wide x 1m)	372	m ³	35	13,000	N/A	4,000	17,000
Mechanical							
72" BW existing conveyor head structure , extended	1	ea	349,592	350,000	4,000	70,000	424,000
Head pulley & drive moved							
additional belt spliced in							
<i>Costing based on ENA BMH estimating spread sheet</i>							
Fire Protection (Ansul LVS)	1	ea	5,250	5,000	N/A	INCL.	5,000
Electrical							
Electrical and Controls	670	kW	250	168,000	N/A	INCL.	168,000
Lighting	62	m	250	16,000	N/A	INCL.	16,000
TOTAL CONVEYOR				539,000			613,000
CAPITAL SPARES (5%)							31,000
SUB TOTAL (DIRECT COSTS)							644,000
CONSTRUCTION INDIRECTS (15%)							97,000
ENGINEERING AND CONSTRUCTION (18%)							116,000
CONTINGENCY (25%)							-
TOTAL ESTIMATED CAPITAL COST (CDN\$)							857,000

PROJECT NAME:
PROJECT NUMBER:

Eagle Gold Fines Screening Study
H363617/240/0201

DATE:
DESIGNER:
ESTIMATE OF CAPITAL COST
CONVEYOR NUMBER:

8/3/2021
M. Haapalainen
3330-CV-019

DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL MATERIAL	FREIGHT TO JOB SITE	ERECTION AND INSTALLATION	TOTAL COST
Civil/Structural							
Excavation and Grading (65m x 6m wide x 1m)	390	m ³	35	14,000	N/A	4,000	18,000
Mechanical							
72" BW conveyor, tail extended ground mounted modules on concrete sleepers, pulley assembly moved & additional belt spliced in.	1	ea	349,592	350,000	4,000	70,000	424,000
<i>Costing based on ENA BMH estimating spread sheet</i>							
Fire Protection (Ansul LVS)	1	ea	5,250	5,000	N/A	INCL.	5,000
Electrical							
Electrical and Controls	670	kW	250	168,000	N/A	INCL.	168,000
Lighting	65	m	250	16,000	N/A	INCL.	16,000
TOTAL CONVEYOR				539,000			613,000
CAPITAL SPARES (5%)							31,000
SUB TOTAL (DIRECT COSTS)							644,000
CONSTRUCTION INDIRECTS (15%)							97,000
ENGINEERING AND CONSTRUCTION (18%)							116,000
CONTINGENCY (25%)							-
TOTAL ESTIMATED CAPITAL COST (CDN\$)							857,000

PROJECT NAME:
PROJECT NUMBER:
DATE:

DESIGNER:
ESTIMATE OF CAPITAL COST
CONVEYOR NUMBER:

Eagle Gold Fines Screening Study
H363617/240/0201
8/3/2021
M. Haapalainen
3330-CV-023

DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL MATERIAL	FREIGHT TO JOB SITE	ERECTION AND INSTALLATION	TOTAL COST
Civil/Structural							
Excavation and Grading (15m x 6m wide x 1m)	90	m ³	35	3,000	N/A	1,000	4,000
Mechanical							
48" BW conveyor, elevated truss mounted 90 kW drives, horizontal tail take-up	1	ea	235,637	236,000	2,000	35,000	273,000
<i>Costing based on ENA BMH estimating spread sheet</i>							
Fire Protection (Ansul LVS)	1	ea	5,250	5,000	N/A	INCL.	5,000
Electrical							
Electrical and Controls	90	kW	250	23,000	N/A	INCL.	23,000
Lighting	15	m	250	4,000	N/A	INCL.	4,000
TOTAL CONVEYOR				268,000			305,000
CAPITAL SPARES (5%)							15,000
SUB TOTAL (DIRECT COSTS)							320,000
CONSTRUCTION INDIRECTS (15%)							48,000
ENGINEERING AND CONSTRUCTION (18%)							58,000
CONTINGENCY (25%)							-
TOTAL ESTIMATED CAPITAL COST (CDN\$)							426,000

PROJECT NAME:
PROJECT NUMBER:
DATE:

DESIGNER:
ESTIMATE OF CAPITAL COST
CONVEYOR NUMBER:

Eagle Gold Fines Screening Study
H363617/240/0201
8/3/2021
M. Haapalainen
3330-CV-024

DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL MATERIAL	FREIGHT TO JOB SITE	ERECTION AND INSTALLATION	TOTAL COST
Civil/Structural							
Excavation and Grading (36m x 6m wide x 1m)	216	m ³	35	8,000	N/A	2,000	10,000
Mechanical							
48" BW conveyor, elevated truss mounted 30 kW drives, horizontal tail take-up	1	ea	248,766	249,000	2,000	50,000	301,000
<i>Costing based on ENA BMH estimating spread sheet</i>							
Fire Protection (Ansul LVS)	1	ea	5,250	5,000	N/A	INCL.	5,000
Electrical							
Electrical and Controls	30	kW	250	8,000	N/A	INCL.	8,000
Lighting	36	m	250	9,000	N/A	INCL.	9,000
TOTAL CONVEYOR				271,000			323,000
CAPITAL SPARES (5%)							16,000
SUB TOTAL (DIRECT COSTS)							339,000
CONSTRUCTION INDIRECTS (15%)							51,000
ENGINEERING AND CONSTRUCTION (18%)							61,000
CONTINGENCY (25%)							-
TOTAL ESTIMATED CAPITAL COST (CDN\$)							451,000

PROJECT NAME:
PROJECT NUMBER:
DATE:

DESIGNER:
ESTIMATE OF CAPITAL COST
CONVEYOR NUMBER:

Eagle Gold Fines Screening Study
H363617/240/0201
8/3/2021
M. Haapalainen
3330-CV-025

DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL MATERIAL	FREIGHT TO JOB SITE	ERECTION AND INSTALLATION	TOTAL COST
Civil/Structural							
Excavation and Grading (39m x 6m wide x 1m)	234	m ³	35	8,000	N/A	2,000	10,000
Mechanical							
48" BW conveyor, elevated truss mounted 55 kW drives, horizontal tail take-up	1	ea	224,474	224,000	2,000	45,000	271,000
<i>Costing based on ENA BMH estimating spread sheet</i>							
Fire Protection (Ansul LVS)	1	ea	5,250	5,000	N/A	INCL.	5,000
Electrical							
Electrical and Controls	55	kW	250	14,000	N/A	INCL.	14,000
Lighting	39	m	250	10,000	N/A	INCL.	10,000
TOTAL CONVEYOR				253,000			300,000
CAPITAL SPARES (5%)							15,000
SUB TOTAL (DIRECT COSTS)							315,000
CONSTRUCTION INDIRECTS (15%)							47,000
ENGINEERING AND CONSTRUCTION (18%)							57,000
CONTINGENCY (25%)							-
TOTAL ESTIMATED CAPITAL COST (CDN\$)							419,000

PROJECT NAME:
PROJECT NUMBER:

DATE:
DESIGNER:
ESTIMATE OF CAPITAL COST
CONVEYOR NUMBER:

Eagle Gold Fines Screening Study
H363617/240/0201
8/3/2021
M. Haapalainen
3330-CV-026

DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL MATERIAL	FREIGHT TO JOB SITE	ERECTION AND INSTALLATION	TOTAL COST
Civil/Structural							
Excavation and Grading (20m x 6m wide x 1m)	120	m ³	35	4,000	N/A	1,000	5,000
Mechanical							
48" BW conveyor, elevated truss mounted	1	ea	184,649	185,000	2,000	37,000	224,000
55 kW drives, horizontal tail take-up							
<i>Costing based on ENA BMH estimating spread sheet</i>							
Fire Protection (Ansul LVS)	1	ea	5,250	5,000	N/A	INCL.	5,000
Electrical							
Electrical and Controls	55	kW	250	14,000	N/A	INCL.	14,000
Lighting	20	m	250	5,000	N/A	INCL.	5,000
TOTAL CONVEYOR				209,000			248,000
CAPITAL SPARES (5%)							12,000
SUB TOTAL (DIRECT COSTS)							260,000
CONSTRUCTION INDIRECTS (15%)							39,000
ENGINEERING AND CONSTRUCTION (18%)							47,000
CONTINGENCY (25%)							-
TOTAL ESTIMATED CAPITAL COST (CDN\$)							346,000

PROJECT NAME:
PROJECT NUMBER:

DATE:
DESIGNER:
ESTIMATE OF CAPITAL COST
CONVEYOR NUMBER:

Eagle Gold Fines Screening Study
H363617/240/0201
8/3/2021
M. Haapalainen
3330-CV-027

DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL MATERIAL	FREIGHT TO JOB SITE	ERECTION AND INSTALLATION	TOTAL COST
Civil/Structural							
Excavation and Grading (90m x 6m wide x 1m)	540	m ³	35	19,000	N/A	6,000	25,000
Mechanical							
48" BW conveyor, elevated truss mounted & 40m of Ground Modules, horizontal tail take-up	1	ea	380,588	381,000	4,000	76,000	461,000
110 kW drives, horizontal tail take-up							
<i>Costing based on ENA BMH estimating spread sheet</i>							
Fire Protection (Ansul LVS)	1	ea	5,250	5,000	N/A	INCL.	5,000
Electrical							
Electrical and Controls	110	kW	250	28,000	N/A	INCL.	28,000
Lighting	90	m	250	23,000	N/A	INCL.	23,000
TOTAL CONVEYOR				437,000			517,000
CAPITAL SPARES (5%)							26,000
SUB TOTAL (DIRECT COSTS)							543,000
CONSTRUCTION INDIRECTS (15%)							81,000
ENGINEERING AND CONSTRUCTION (18%)							98,000
CONTINGENCY (25%)							-
TOTAL ESTIMATED CAPITAL COST (CDN\$)							722,000

PROJECT NAME:
PROJECT NUMBER:

Eagle Gold Fines Screening Study
H363617/240/0201

DATE:

8/3/2021

DESIGNER:

M. Haapalainen

ESTIMATE OF CAPITAL COST

EQUIPMENT NUMBER:

3340-SC-005

DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL MATERIAL	FREIGHT TO JOB SITE	ERECTION AND INSTALLATION	TOTAL COST
Civil/Structural							
Foundation (90m x 6m wide x 1m)	540	m ³	35	19,000	N/A	6,000	25,000
Screen Metso MF4.2 x 8.5 9080 x 5484 x 6855	1	ea	1,089,814	1,090,000	11,000	218,000	1,319,000
<i>Costing based on Metso Quotation, quoted in USD & converted to CAD exchange rate used =</i>	1.2353824		882,167				
Feed Chute	6722	kg	12	81,000	N/A	INCL.	81,000
Undersize Chute	35517	kg	12	426,000	N/A	INCL.	426,000
Oversize Chute	23722	kg	12	285,000	N/A	INCL.	285,000
Electrical							
Electrical and Controls	110	kW	250	28,000	N/A	INCL.	28,000
Lighting	12	m	250	3,000	N/A	INCL.	3,000
TOTAL SCREEN				1,913,000			2,142,000
CAPITAL SPARES (5%)							107,000
SUB TOTAL (DIRECT COSTS)							2,249,000
CONSTRUCTION INDIRECTS (15%)							337,000
ENGINEERING AND CONSTRUCTION (18%)							405,000
CONTINGENCY (25%)							-
TOTAL ESTIMATED CAPITAL COST (CDN\$)							2,991,000

PROJECT NAME:
PROJECT NUMBER:
DATE:
DESIGNER:
ESTIMATE OF CAPITAL COST
FACILITY NUMBER:

Eagle Gold Fines Screening Study
H363617/240/0201
8/3/2021
M. Haapalainen
3340-XX-00X

DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL MATERIAL	FREIGHT TO JOB SITE	ERECTION AND INSTALLATION	TOTAL COST
Civil/Structural							
Excavation, 32.5m x 152m x 4m	210	m ³	15	3,000	N/A	1,000	4,000
Structural fill, 29.5m x 12m x 4m	1,416	m ³	30	42,000	N/A	13,000	55,000
Screen Foundation (12m x 20m x 4m)	960	m ³	2,300	2,208,000	N/A	662,000	2,870,000
Building Foundations	354	m ³	2,300	814,000	N/A	244,000	1,058,000
Floor Slab	177	m ³	2,300	407,000	N/A	122,000	529,000
Building Steel							
Light	4	t	8,030	31,000	-	6,000	37,000
Medium	27	t	7,480	199,000	2,000	40,000	241,000
Heavy	20	t	5,510	113,000	1,000	23,000	137,000
Extra Heavy	11	t	4,630	50,000	1,000	10,000	61,000
		1,416					
Cladding	2854	m ²	120	342,000	N/A	INCL.	342,000
Bag House & Fan (Donaldson Torit)	1	ea	158,100	158,000	N/A	INCL.	158,000
Ducting work	1	allowance	60,000	60,000	N/A	INCL.	60,000
10/25 tonne OH crane	1	ea	178,850	179,000	N/A	INCL.	179,000
Electrical							
Electrical and Controls	110	kW	250	28,000	N/A	INCL.	28,000
Lighting	354	m ²	250	89,000	N/A	INCL.	89,000
TOTAL BUILDING				4,723,000			5,848,000
CAPITAL SPARES (5%)							292,000
SUB TOTAL (DIRECT COSTS)							6,140,000
CONSTRUCTION INDIRECTS (15%)							921,000
ENGINEERING AND CONSTRUCTION (18%)							1,105,000
CONTINGENCY (25%)							-
TOTAL ESTIMATED CAPITAL COST (CDN\$)							8,166,000

PROJECT NAME: Eagle Gold Fines Screening Study
PROJECT NUMBER: H363617/240/0201
DATE: 8/3/2021
DESIGNER: M. Haapalainen
OPERATING COST DETAIL SHEET

Fixed Management and Labour Costs	# people	hours/year	total hours	Average Rate (\$/hr)	OPEX
Management					
Manager	0	2,080	0	\$ 76.92	\$ -
Superintendents	0	2,080	0	\$ 65.38	\$ -
Support	0	2,080	0	\$ 30.77	\$ -
Contract Service	0	2,080	0	\$ 30.77	\$ -
Fixed Labour					
Supervision	0	2,080	0	\$ 65.38	\$ -
Crusher Operator	0	2,080	0	\$ 53.85	\$ -
Conveyor Operator	0	2,080	0	\$ 53.85	\$ -
Stacking Operator	0	2,080	0	\$ 53.85	\$ -
Maintenance	2	2,080	4,160	\$ 67.69	\$ 281,590
Total Fixed Labour Costs					\$ 281,590

15,206,400 Tonne per Year

Variable O&M Labour Costs		Product Handled (MT)	Hours / Mt	total hours	Rate (\$/hr)	OPEX	
Operations							
Crusher to stacking	15.0	0	0	\$53.85	\$0		
Conveying to stacking	15.0	0	0	\$53.85	\$0		
Stacking	15.0	0	0	\$53.85	\$0		
1.5 x Shift Premium	(Estimated at 35% of total Operating time)			0	\$53.85	\$0	
2.0 x Shift Premium	(Estimated at 25% of total Operating time)			0	\$53.85	\$0	
Maintenance							
5% of fixed labour	4.0	208	0	\$60.00	\$0		
Total Variable Labour Costs							\$0

* (1%struct + 2%mech&elect + 1%mech&elect per 1000 hours)

Maintenance Materials & Contract Maint Costs	% of CAPEX	CAPEX (\$M)	total hours	OPEX
Fixed				
Structural	1.0%	\$0.11	n/a	\$ 1,096
Mechanical	5.5%	\$0.60	n/a	\$ 33,165
Electrical	1.5%	\$0.16	n/a	\$ 2,467
Variable (10% per 1000hrs)				
Mechanical	0.5%	\$0.55	416	\$ 1,140
Average Maintenance Materials and Contractor Costs per Year				\$ 37,868

15,206,400 Tonne per Year

	Installed Power (kW)	Utilization (%)	Operating Hrs	Energy Cost (\$/kW-hr)	Total Electrical Costs (\$)
Loaded condition	272	70%	4,140	\$ 0.100	\$ 78,816
Unloaded (empty belts)	100	20%	1,183	\$ 0.100	\$ 2,365
Electrical Power Costs					\$ 81,182

Belt Conveyor Budget Maker 2.0

Conveyor no: 16

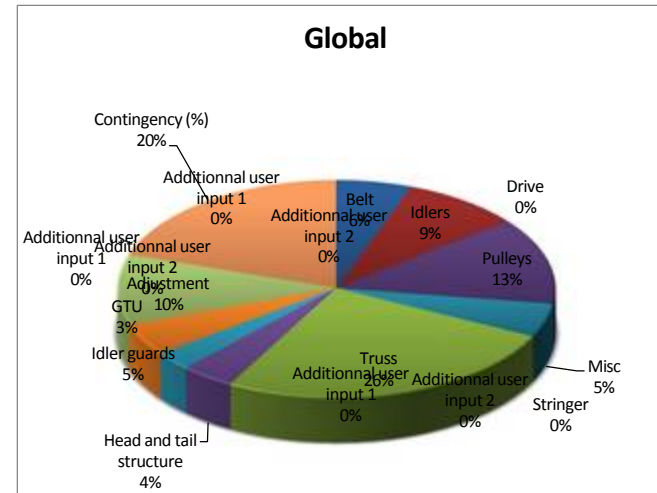
Estimated by:

M.Haapalainen

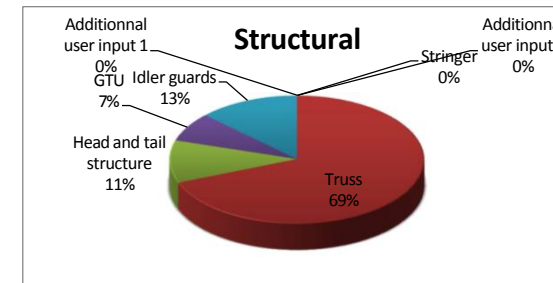
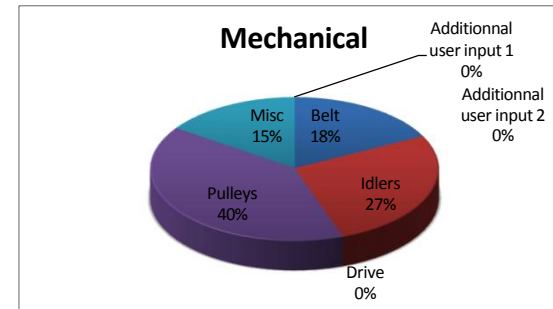
Date:

06.07.21

Specification	Input
Belt Width (in)	72
Drive power (ea)	900
Qty drives	0
Steel cord belts (yes=1,n no=2)	2
Length of stand alone stringer (ft)	0
Length of truss (ft)	140
Qty of truss bents	1
Average height of truss bents	37
Length of opened gallery (ft)	0
Add stringers in gallery (yes=1, no=2)	
Cladding footage (ft2)	0
Insulation footage (ft2)	0
Qty of gallery bents	0
Average height of truss bents	0
Length of tubular gallery (ft)	0
Add stringers in gallery (yes=1, no=2)	
Insulation footage (ft2)	0
Qty of gallery bents	0
Average height of truss bents	0
Total conveyor length (ft)	140



Components	Automated costs		Override
Mechanicals	Cost	\$/ft	\$/ft or \$
Belt	\$24,790	\$89	
Idlers	\$38,229	\$273	
Drive	\$0	-	
Pulleys	\$56,367	-	
Misc	\$21,864	-	
Additional user input 1			
Additional user input 2			
Sub-total Mechanical	\$141,250	\$1,009	
Structural	Cost	\$/ft	
Stringer	\$0	\$161	
Truss	\$112,243	\$802	
Head and tail structure	\$17,500	-	
GTU	\$12,000		
Idler guards	\$21,000	\$150	
Additional user input 1			
Additional user input 2			
Sub-total Structural	\$162,743	\$1,162	
Others	Cost	%	
Adjustment	\$45,599	15%	
Additional user input 1			
Additional user input 2			
Sub-total Others	\$45,599	\$326	
Sub-Total	\$349,592	\$2,497	%
Contingency (%)	\$87,398		25%
TOTAL	\$436,991	\$ 3,121	



Belt Conveyor Budget Maker 2.0

Conveyor no: 19

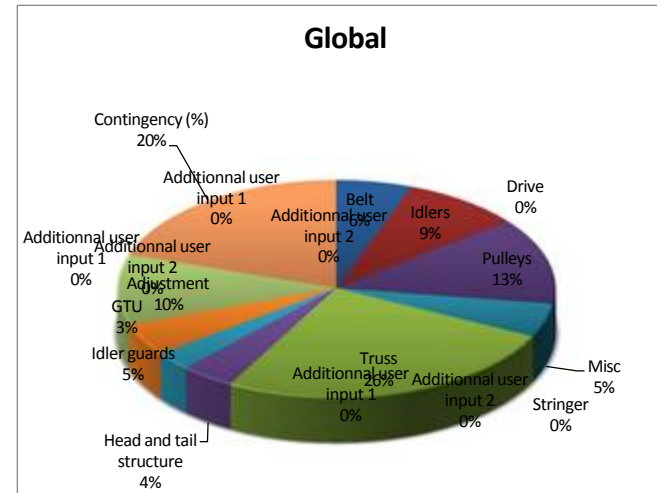
Estimated by:

M.Haapalainen

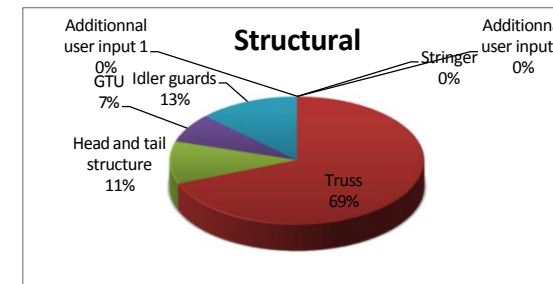
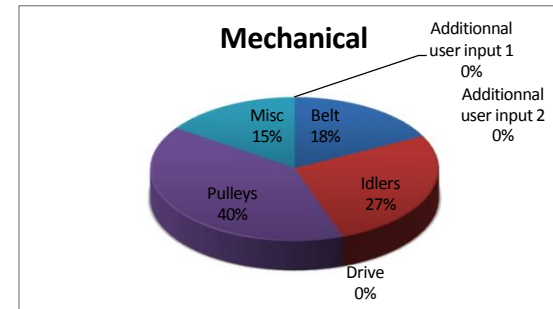
Date:

06.07.21

Specification	Input
Belt Width (in)	72
Drive power (ea)	900
Qty drives	0
Steel cord belts (yes=1,n no=2)	2
Length of stand alone stringer (ft)	0
Length of truss (ft)	140
Qty of truss bents	1
Average height of truss bents	37
Length of opened gallery (ft)	0
Add stringers in gallery (yes=1, no=2)	
Cladding footage (ft2)	0
Insulation footage (ft2)	0
Qty of gallery bents	0
Average height of truss bents	0
Length of tubular gallery (ft)	0
Add stringers in gallery (yes=1, no=2)	
Insulation footage (ft2)	0
Qty of gallery bents	0
Average height of truss bents	0
Total conveyor length (ft)	140



Components	Automated costs		Override
Mechanicals	Cost	\$/ft	\$/ft or \$
Belt	\$24,790	\$89	
Idlers	\$38,229	\$273	
Drive	\$0	-	
Pulleys	\$56,367	-	
Misc	\$21,864	-	
Additional user input 1			
Additional user input 2			
Sub-total Mechanical	\$141,250	\$1,009	
Structural	Cost	\$/ft	
Stringer	\$0	\$161	
Truss	\$112,243	\$802	
Head and tail structure	\$17,500	-	
GTU	\$12,000		
Idler guards	\$21,000	\$150	
Additional user input 1			
Additional user input 2			
Sub-total Structural	\$162,743	\$1,162	
Others	Cost	%	
Adjustment	\$45,599	15%	
Additional user input 1			
Additional user input 2			
Sub-total Others	\$45,599	\$326	
Sub-Total	\$349,592	\$2,497	%
Contingency (%)	\$87,398		25%
TOTAL	\$436,991	\$ 3,121	



Belt Conveyor Budget Maker 2.0

Conveyor no: 23

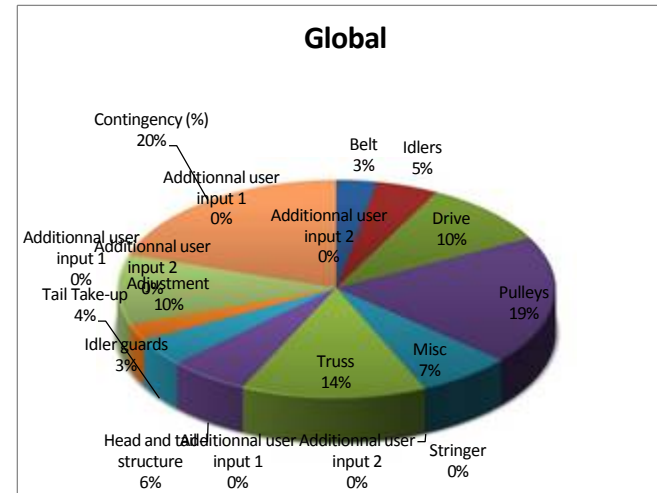
Estimated by:

M.Haapalainen

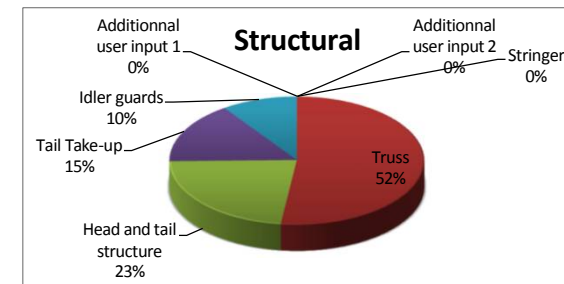
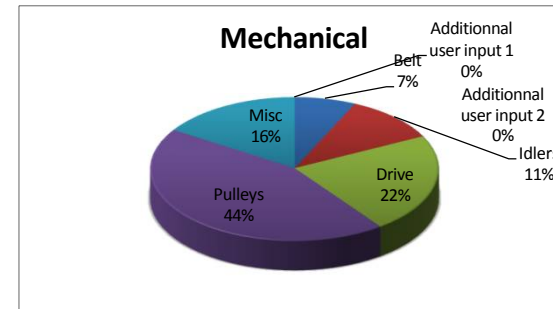
Date:

06.07.21

Specification	Input
Belt Width (in)	72
Drive power (ea)	120
Qty drives	1
Steel cord belts (yes=1,n no=2)	2
Length of stand alone stringer (ft)	0
Length of truss (ft)	50
Qty of truss bents	3
Average height of truss bents	12
Length of opened gallery (ft)	0
Add stringers in gallery (yes=1, no=2)	
Cladding footage (ft2)	0
Insulation footage (ft2)	0
Qty of gallery bents	0
Average height of truss bents	0
Length of tubular gallery (ft)	0
Add stringers in gallery (yes=1, no=2)	
Insulation footage (ft2)	0
Qty of gallery bents	0
Average height of truss bents	0
Total conveyor length (ft)	50



Components	Automated costs		Override
Mechanicals	Cost	\$/ft	\$/ft or \$
Belt	\$8,854	\$89	
Idlers	\$13,653	\$273	
Drive	\$28,530	-	
Pulleys	\$56,367	-	
Misc	\$20,411	-	
Additional user input 1			
Additional user input 2			
Sub-total Mechanical	\$127,815	\$2,556	
Structural	Cost	\$/ft	
Stringer	\$0	\$161	
Truss	\$40,087	\$802	
Head and tail structure	\$17,500	-	
Tail Take-up	\$12,000		
Idler guards	\$7,500	\$150	
Additional user input 1			
Additional user input 2			
Sub-total Structural	\$77,087	\$1,542	
Others	Cost	%	
Adjustment	\$30,735	15%	
Additional user input 1			
Additional user input 2			
Sub-total Others	\$30,735	\$615	
Sub-Total	\$235,637	\$4,713	%
Contingency (%)	\$58,909		25%
TOTAL	\$294,547	\$ 5,891	



Belt Conveyor Budget Maker 2.0

Conveyor no: 24

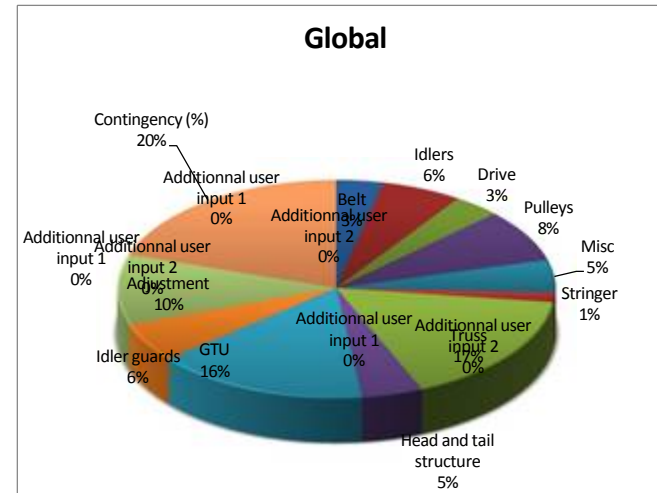
Estimated by:

M.Haapalainen

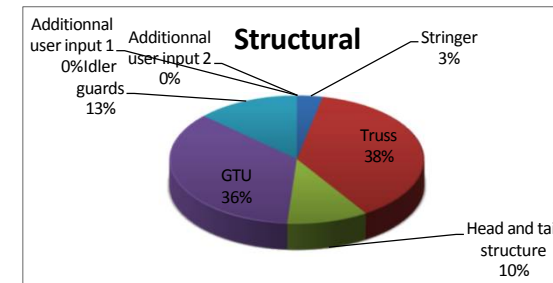
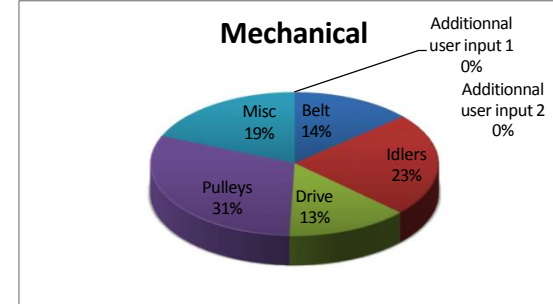
Date:

06.07.21

Specification	Input
Belt Width (in)	48
Drive power (ea)	50
Qty drives	1
Steel cord belts (yes=1, no=2)	2
Length of stand alone stringer (ft)	40
Length of truss (ft)	80
Qty of truss bents	4
Average height of truss bents	20
Length of opened gallery (ft)	0
Add stringers in gallery (yes=1, no=2)	
Cladding footage (ft2)	0
Insulation footage (ft2)	0
Qty of gallery bents	0
Average height of truss bents	0
Length of tubular gallery (ft)	0
Add stringers in gallery (yes=1, no=2)	
Insulation footage (ft2)	0
Qty of gallery bents	0
Average height of truss bents	0
Total conveyor length (ft)	120



Components	Automated costs		Override
Mechanicals	Cost	\$/ft	\$/ft or \$
Belt	\$10,830	\$45	
Idlers	\$18,670	\$156	
Drive	\$10,807	-	
Pulleys	\$24,430	-	
Misc	\$14,969	-	
Additional user input 1			
Additional user input 2			
Sub-total Mechanical	\$79,706	\$664	
Structural	Cost	\$/ft	
Stringer	\$4,498	\$112	
Truss	\$51,438	\$643	
Head and tail structure	\$14,000	-	
GTU	\$48,675		
Idler guards	\$18,000	\$150	
Additional user input 1			
Additional user input 2			
Sub-total Structural	\$136,611	\$1,138	
Others	Cost	%	
Adjustment	\$32,448	15%	
Additional user input 1			
Additional user input 2			
Sub-total Others	\$32,448	\$270	
Sub-Total	\$248,766	\$2,073	%
Contingency (%)	\$62,191		25%
TOTAL	\$310,957	\$ 2,591	



Belt Conveyor Budget Maker 2.0

Conveyor no: 26

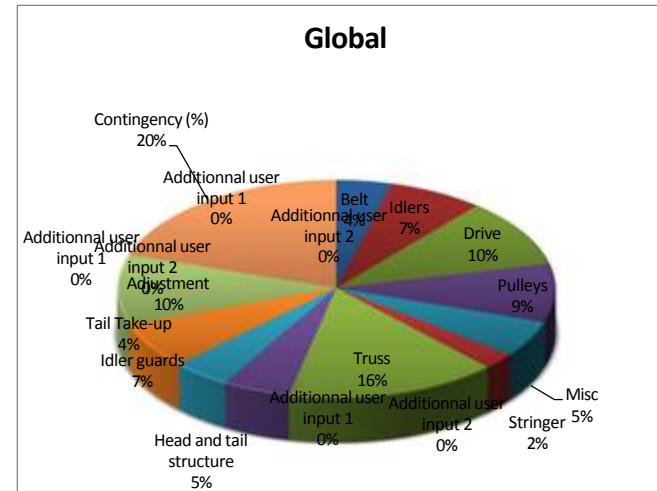
Estimated by:

M.Haapalainen

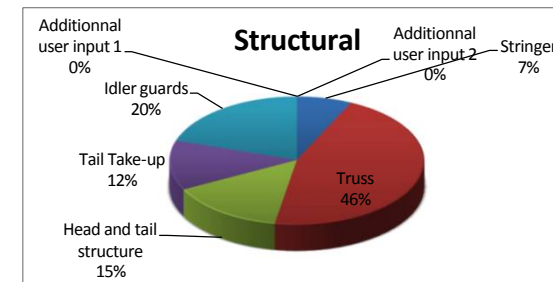
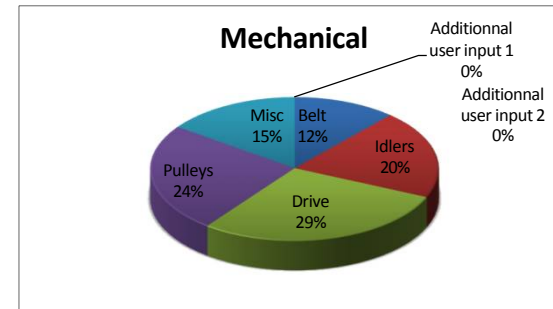
Date:

06.07.21

Specification	Input
Belt Width (in)	48
Drive power (ea)	100
Qty drives	1
Steel cord belts (yes=1,n no=2)	2
Length of stand alone stringer (ft)	60
Length of truss (ft)	68
Qty of truss bents	4
Average height of truss bents	12
Length of opened gallery (ft)	0
Add stringers in gallery (yes=1, no=2)	
Cladding footage (ft2)	0
Insulation footage (ft2)	0
Qty of gallery bents	0
Average height of truss bents	0
Length of tubular gallery (ft)	0
Add stringers in gallery (yes=1, no=2)	
Insulation footage (ft2)	0
Qty of gallery bents	0
Average height of truss bents	0
Total conveyor length (ft)	128



Components	Automated costs		Override
Mechanicals	Cost	\$/ft	\$/ft or \$
Belt	\$11,552	\$45	
Idlers	\$19,915	\$156	
Drive	\$28,530	-	
Pulleys	\$24,430	-	
Misc	\$15,098	-	
Additional user input 1			
Additional user input 2			
Sub-total Mechanical	\$99,525	\$778	
Structural	Cost	\$/ft	
Stringer	\$6,747	\$112	
Truss	\$43,723	\$643	
Head and tail structure	\$14,000	-	
Tail Take-up	\$12,000		
Idler guards	\$19,200	\$150	
Additional user input 1			
Additional user input 2			
Sub-total Structural	\$95,670	\$747	
Others	Cost	%	
Adjustment	\$29,279	15%	
Additional user input 1			
Additional user input 2			
Sub-total Others	\$29,279	\$229	
Sub-Total	\$224,474	\$1,754	%
Contingency (%)	\$56,119		25%
TOTAL	\$280,593	\$ 2,192	



Belt Conveyor Budget Maker 2.0

Conveyor no: 26

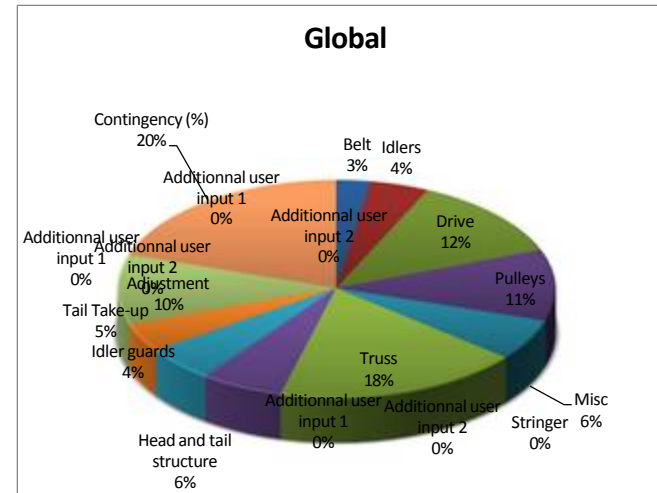
Estimated by:

M.Haapalainen

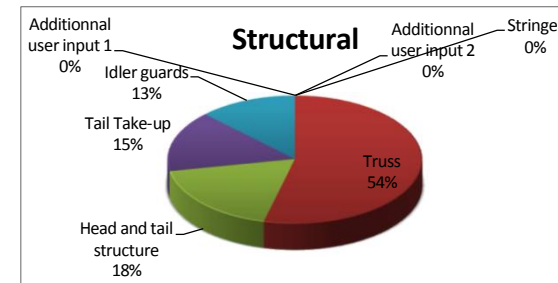
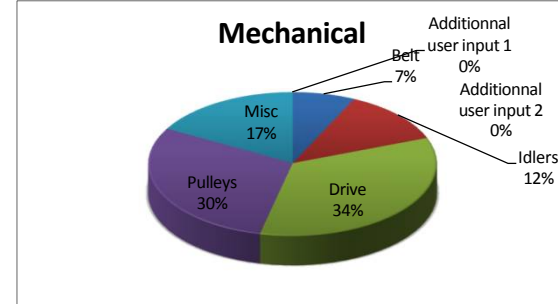
Date:

06.07.21

Specification	Input
Belt Width (in)	48
Drive power (ea)	100
Qty drives	1
Steel cord belts (yes=1,n no=2)	2
Length of stand alone stringer (ft)	0
Length of truss (ft)	65
Qty of truss bents	3
Average height of truss bents	12
Length of opened gallery (ft)	0
Add stringers in gallery (yes=1, no=2)	
Cladding footage (ft2)	0
Insulation footage (ft2)	0
Qty of gallery bents	0
Average height of truss bents	0
Length of tubular gallery (ft)	0
Add stringers in gallery (yes=1, no=2)	
Insulation footage (ft2)	0
Qty of gallery bents	0
Average height of truss bents	0
Total conveyor length (ft)	65



Components	Automated costs		Override
Mechanicals	Cost	\$/ft	\$/ft or \$
Belt	\$5,866	\$45	
Idlers	\$10,113	\$156	
Drive	\$28,530	-	
Pulleys	\$24,430	-	
Misc	\$14,081	-	
Additional user input 1			
Additional user input 2			
Sub-total Mechanical	\$83,021	\$1,277	
Structural	Cost	\$/ft	
Stringer	\$0	\$112	
Truss	\$41,794	\$643	
Head and tail structure	\$14,000	-	
Tail Take-up	\$12,000		
Idler guards	\$9,750	\$150	
Additional user input 1			
Additional user input 2			
Sub-total Structural	\$77,544	\$1,193	
Others	Cost	%	
Adjustment	\$24,085	15%	
Additional user input 1			
Additional user input 2			
Sub-total Others	\$24,085	\$371	
Sub-Total	\$184,649	\$2,841	%
Contingency (%)	\$46,162		25%
TOTAL	\$230,811	\$ 3,551	



Belt Conveyor Budget Maker 2.0

Conveyor no: 27

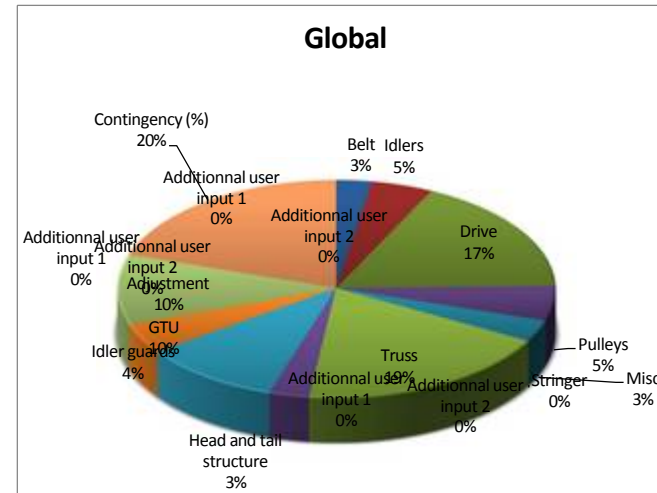
Estimated by:

M.Haapalainen

Date:

06.07.21

Specification	Input
Belt Width (in)	48
Drive power (ea)	300
Qty drives	1
Steel cord belts (yes=1,n no=2)	2
Length of stand alone stringer (ft)	0
Length of truss (ft)	140
Qty of truss bents	6
Average height of truss bents	12
Length of opened gallery (ft)	0
Add stringers in gallery (yes=1, no=2)	0
Cladding footage (ft2)	0
Insulation footage (ft2)	0
Qty of gallery bents	0
Average height of truss bents	0
Length of tubular gallery (ft)	0
Add stringers in gallery (yes=1, no=2)	0
Insulation footage (ft2)	0
Qty of gallery bents	0
Average height of truss bents	0
Total conveyor length (ft)	140



Components	Automated costs		Override
Mechanicals	Cost	\$/ft	\$/ft or \$
Belt	\$12,635	\$45	
Idlers	\$21,782	\$156	
Drive	\$83,115	-	
Pulleys	\$24,430	-	
Misc	\$15,292	-	
Additional user input 1			
Additional user input 2			
Sub-total Mechanical	\$157,254	\$1,123	
Structural	Cost	\$/ft	
Stringer	\$0	\$112	
Truss	\$90,017	\$643	
Head and tail structure	\$14,000	-	
GTU	\$48,675		
Idler guards	\$21,000	\$150	
Additional user input 1			
Additional user input 2			
Sub-total Structural	\$173,692	\$1,241	
Others	Cost	%	
Adjustment	\$49,642	15%	
Additional user input 1			
Additional user input 2			
Sub-total Others	\$49,642	\$355	
Sub-Total	\$380,588	\$2,718	%
Contingency (%)	\$95,147		25%
TOTAL	\$475,734	\$ 3,398	

