2.0 GENERAL SYSTEM DESCRIPTION

2.1 Introduction

, Advanced Dynamics Corp. Ltd. has designed and fabricated a pulper feed system to be installed in the facility.

This system consists of the following equipment:
(refer to the system layout ADCL dwg. BA00-D1-33466)

- Truck Guard c/w Loop Detector
- Infeed Stack Storage Conveyor
- Safety Fences
- Manual Dewiring Conveyor
- Manual Wire Cutter/Tool Balancer
- Destacker c/w Conveyor
- Stacker
- Safety Enclosure
- Outfeed Stack Storage Conveyor

2.2 Drawing List

2.2.1 Mechanical Drawings

ADCL Dwg No.	Description
BA00-D1-33466	GENERAL LAYOUT
MI00-C4-33467	TRUCK GUARD c/w LOOP DETECTOR
DA06-D3-33468	INFEED STACK STORAGE CONVEYOR
GM00-D3-33469	SAFETY FENCES
DA06-D3-33470	MANUAL DEWIRING CONVEYOR
MV00-D3-33471	MANUAL WIRE CUTTER/TOOL BALANCER
GB00-D3-33472	DESTACKER
DS00-D3-33473	STACKER
MI00-D3-33474	SAFETY ENCLOSURE
DA06-D3-33475	OUTFEED STACK STORAGE CONVEYOR

2.2.2 Hydraulic Drawings

Hydraulic drawing numbers have the following prefix: **ZB00-B7-**

ADCL Dwg No./Sheet	Description
33830	60INT – Hydraulic Schematic / Hydraulic Interconnections
33406 (1/2)	60HPU1 – Hydraulic Power Unit / Schematic
33406 (2/2)	60HPU1 – Hydraulic Power Unit / Layout
33484	15HM1 – Hydraulic Schematic / Destacker Hydraulics
33540	16HM1 – Hydraulic Schematic / Bale Stacker Hydraulics

2.2.3 Pneumatic Drawings

Pneumatic drawing numbers have the following prefix: **ZC00-B6-**

ADCL Dwg No./Sheet	Description
33629	13PM1 – Manual Dewiring Conveyor Pneumatic Schematic

2.2.4 Electrical Drawings

Electrical drawing numbers have the following prefix: **ZA00-B8-**

ADCL Dwg No./Sheet	Description
33620	CONTROLS DRAWING LIST
33621	SYSTEM & OPERATION LAYOUT
33622 (1/6)	INSTRUMENT & PANEL LOCATIONS – INFEED STACK STORAGE CONVEYOR, SECTION #11
33622 (2/6)	INSTRUMENT & PANEL LOCATIONS – SAFETY FENCES, SECTION #12
33622 (3/6)	INSTRUMENT & PANEL LOCATIONS – MANUAL DEWIRING CONVEYOR & MANUAL WIRE CUTTER, SECTION #13 & 14
33622 (4/6)	INSTRUMENT & PANEL LOCATIONS – DESTACKER, SECTION #15
33622 (5/6)	INSTRUMENT & PANEL LOCATIONS – BALE STACKER, SECTION #16
33622 (6/6)	INSTRUMENT & PANEL LOCATIONS – OUTFEED STACK STORAGE CONVEYOR, SECTION #19
33623	CABLE DIAGRAM BTW. ENCLOSURES – CONTROL CABLES
33624 (1/4)	PANEL LAYOUT – 80PLC1, EXTERNAL VIEW
33624 (2/4)	PANEL LAYOUT – 80PLC1, INTERNAL VIEW
33624 (3/4)	PANEL LAYOUT – 80PLC1, TERMINAL BLOCK ARRANGEMENT
33624 (4/4)	PANEL LAYOUT – 80PLC1, TERMINAL BLOCK ARRANGEMENT

33625 (1/21)	CONTROL PANEL, WIRING DIAGRAM – 120VAC DIST. & RELAY LOGIC
33625 (2/21)	CONTROL PANEL, WIRING DIAGRAM – 120VAC DIST. & RELAY LOGIC
33625 (3/21)	CONTROL PANEL, WIRING DIAGRAM – SPARE
33625 (4/21)	CONTROL PANEL, WIRING DIAGRAM – SPARE
33625 (5/21)	CONTROL PANEL, WIRING DIAGRAM – SPARE
33625 (6/21)	CONTROL PANEL, WIRING DIAGRAM – SPARE
33625 (7/21)	CONTROL PANEL, WIRING DIAGRAM – SPARE
33625 (8/21)	CONTROL PANEL, WIRING DIAGRAM – SPARE
33625 (9/21)	CONTROL PANEL, WIRING DIAGRAM – SPARE
33625 (10/21)	CONTROL PANEL, WIRING DIAGRAM – SPARE
33625 (11/21)	CONTROL PANEL, WIRING DIAGRAM – I/O MODULE, RACK 00, SLOT 00
33625 (13/21)	CONTROL PANEL, WIRING DIAGRAM – I/O MODULE, RACK 00, SLOT 01
33625 (15/21)	CONTROL PANEL, WIRING DIAGRAM – I/O MODULE, RACK 00, SLOT 02
33625 (16/21)	CONTROL PANEL, WIRING DIAGRAM – I/O MODULE, RACK 00, SLOT 03
33625 (17/21)	CONTROL PANEL, WIRING DIAGRAM – I/O MODULE, RACK 00, SLOT 04
33625 (18/21)	CONTROL PANEL, WIRING DIAGRAM – I/O MODULE, RACK 00, SLOT 05
33625 (19/21)	CONTROL PANEL, WIRING DIAGRAM – I/O MODULE, RACK 00, SLOT 06
33625 (20/21)	CONTROL PANEL, WIRING DIAGRAM – I/O MODULE, RACK 00, SLOT 07
33625 (21/21)	CONTROL PANEL, WIRING DIAGRAM – I/O MODULE, RACK 00, SLOT 08
33626 (1/2)	OPERATOR STATION, LAYOUT & WIRING DIAGRAM – 15PBS1
33626 (2/2)	OPERATOR STATION, LAYOUT & WIRING DIAGRAM – 80PBS1
33627 (1/10)	JUNCTION BOX WIRING DIAGRAM – 10JBC1
33627 (2/10)	JUNCTION BOX WIRING DIAGRAM – 10JBC2
33627 (3/10)	JUNCTION BOX WIRING DIAGRAM – 11JBC1
33627 (4/10)	JUNCTION BOX WIRING DIAGRAM – 12JBC1
33627 (5/10)	JUNCTION BOX WIRING DIAGRAM – 13JBC1
33627 (6/10)	JUNCTION BOX WIRING DIAGRAM – 15JBC1
33627 (7/10)	JUNCTION BOX WIRING DIAGRAM – 15JBC2
33627 (8/10)	JUNCTION BOX WIRING DIAGRAM – 16JBC1
33627 (9/10)	JUNCTION BOX WIRING DIAGRAM – 19JBC1
33627 (10/10)	JUNCTION BOX WIRING DIAGRAM – 60JBC1
33357	TYPICAL LOOP INSTALLATION

2.3 System Capacities, Technical and Performance Data

The pulper feed system was especially designed and fabricated for the requirements and constraints described herein. Each component of the system has certain capacities and limitations, which must be respected under any and all circumstances. Exceeding system ratings could damage the equipment or may create an unsafe, hazardous condition of operation, and will result in void of the equipment warranty.

2.3.1 Equipment Operating Requirements

- Running time : 24hrs/day, 7 days/wk, 365 days/year
- Actual capacity : 150 Bales/shift (8 hrs)
- Design capacity : 200 Bales/shift (8 hrs)

2.3.2 Product Specifications

Product Specifications		
	Minimum	Maximum
Length	32"	34"
Width	28"	30"
Height	16"	20"
Weight	500#	550#
Stack size (wired)		5
Stack size (dewired)		3
Wire pattern	1 x 1	1 x 2

Table 1. Product Specifications

2.3.3 System Operating Environment

The system will be installed in an indoor, dry, non-corrosive, non-freezing environment.