FROM CONVEYOR #11

FROM CONVEYOR #8

(CONTINUED FROM DWG #017-00-E4)

BELT ALIGNMENT SWITCH (FS)
(ALARM) FHS-ZS-0018-01
(STOP) FHS-ZS-0018-02

BELT ALIGNMENT SWITCH (NS)
(ALARM) FHS-ZS-0018-03
(STOP) FHS-ZS-0018-04

200 TPH

200 TPH

ZERO SPEED SWITCH
(FS) FHS-SSL-0026

SAFETY STOP SWITCHES
(FS) FHS-HS-0021-01
FHS-HS-0021-02

SAFETY STOP SWITCH
(FS) FHS-HS-0021-03
FHS-HS-0021-04

CONVEYOR #9
FHS-CNV-0020

200 TPH

GTU OVER TRAVEL
FHS-ZS-0018-13

BELT ALIGNMENT SWITCH (FS)
(ALARM) FHS-ZS-0018-05
(STOP) FHS-ZS-0018-06

BELT ALIGNMENT SWITCH (NS)
(ALARM) FHS-ZS-0018-07
(STOP) FHS-ZS-0018-08

DAMAGED BELT DETECTOR SWITCH
(FS) FHS-YS-0025-02
FHS-YS-0025-03

DAMAGED BELT DETECTOR SWITCH
(NS) FHS-YS-0025-04
FHS-YS-0025-05

SAFETY STOP SWITCH
(FS) FHS-HS-0021-05
FHS-HS-0021-06

BELT ALIGNMENT SWITCH (FS)
(ALARM) FHS-ZS-0018-09
(STOP) FHS-ZS-0018-10

BELT ALIGNMENT SWITCH (NS)
(ALARM) FHS-ZS-0018-11
(STOP) FHS-ZS-0018-12

BOILER BUILDING
WARNING HORN/LIGHT
FHS-EA-0008

(100) 460/3/60
FHS-MR-0036-01 FHS-HE-0010-01
FHS-MR-0036-02 FHS-HE-0010-02

HOA/E-STOP PANEL
FHS-CP-0034

PLUGGED CHUTE SWITCH
FHS-YS-0025-01

PLUGGED CHUTE SWITCH CONTROL UNIT
(CONVEYOR #9 DISCHARGE)
FHS-YIC-0029

200 TPH

460/3/60 (13/4)
FHS-MR-0037

METERING BIN POSITION SWITCH
FHS-ZS-0019-01

CONVEYOR #10 POSITION SWITCH
FHS-ZS-0019-02

POSITION INDICATOR
FHS-ZI-0004

HOA/ E-STOP PANEL
FHS-CP-0035

PLUGGED CHUTE SWITCH CONTROL UNIT
FHS-YIC-0030

PLUGGED CHUTE SWITCH
FHS-YS-0026-03

PLUGGED CHUTE SWITCH
CONTROL UNIT
FHS-YIC-0031

2-WAY SPLITTER GATE #3
FHS-SP-0019

200 TPH

PLUGGED CHUTE SWITCH
FHS-YS-0026-01

PLUGGED CHUTE SWITCH
FHS-YS-0026-02

TO METERING BIN #2
(BY OTHERS)

2

460/3/60 (20)
FHS-MR-0038-01
FHS-MR-0038-02

BOILER FEED FLEX I/O PANEL
FHS-CP-0039

1

HOA/ E-STOP PANEL
FHS-CP-0036

BELT ALIGNMENT SWITCH (FS)
FHS-ZS-0020-07 (ALARM)
FHS-ZS-0020-08 (STOP)

BELT ALIGNMENT SWITCH (NS)
FHS-ZS-0020-05 (ALARM)
FHS-ZS-0020-06 (STOP)

200 TPH

PLUGGED CHUTE SWITCH CONTROL UNIT
FHS-YIC-0032

SAFETY STOP SWITCH
(FS) FHS-HS-0022-01
FHS-HS-0022-02

BELT ALIGNMENT SWITCH (FS)
FHS-ZS-0020-03 (ALARM)
FHS-ZS-0020-04 (STOP)

BELT ALIGNMENT SWITCH (NS)
FHS-ZS-0020-01 (ALARM)
FHS-ZS-0020-02 (STOP)

CONVEYOR #10
FHS-CNV-0021

ZERO SPEED SWITCH
FHS-SSL-0027 (FS)

PLUGGED CHUTE SWITCH
FHS-YS-0027-01

2

TO METERING BIN #1
(BY OTHERS)

DAMAGED BELT DETECTOR SWITCH
FHS-YS-0027-02 (FS)
FHS-YS-0027-03

DAMAGED BELT DETECTOR SWITCH
FHS-YS-0027-04 (NS)
FHS-YS-0027-05

REVERSE AIR
SOLENOID VALVE
FHS-SOV-0007

DUST COLLECTOR #2
6000 CFM
FHS-SP-0020

DIFFERENTIAL
PRESSURE SWITCH
FHS-PDSH-0002-01
FHS-PDSL-0002-02

(20) 460/3/60
FHS-MR-0039-01

3/4 NPT CONNECTION
SUPPLY 10.9 SCFM OF CLEAN
DRY AIR @ 100 PSI

ROTARY AIRLOCK
FHS-SP-0021

HIGH LEVEL SWITCH
FHS-LSH-0013

DUST COLLECTION
HOA/E-STOP PANEL
FHS-CP-0037

ZERO SPEED SWITCH (AIR LOCK)
FHS-SSL-0028

(1) 460/3/60
FHS-MR-0039-02

TO METERING BIN #1

DUST COLLECTOR #3
2000 CFM
FHS-SP-0022

REVERSE AIR
SOLENOID VALVE
FHS-SOV-0008

DIFFERENTIAL
PRESSURE SWITCH
FHS-PDSH-0003-01
FHS-PDSL-0003-02

3/4 NPT CONNECTION,
SUPPLY 7.3 SCFM OF CLEAN
DRY AIR @ 100 PSI

460/3/60 (7.5)
FHS-MR-0040

DUST COLLECTION
HOA/E-STOP PANEL
FHS-CP-0038

TO METERING BIN #2

NOTES:

1.) WORK THIS DRAWING WITH DRAWINGS #017-00-E1 THRU E4.

SAFETY:
Although safety engineering is an important aspect of all Wolf Material Handling Systems products, compliance with safety standards, including OSHA and other Federal, State, and Local Codes or regulations is the responsibility of the user. Placement of guards and other safety equipment is often dependent upon the area and use to which the equipment is put. A safety study should be made of the application, and additional guards and warning signs should be installed wherever appropriate.

This project shall be erected per the AISC code of Standard Practice specifically paragraph 7.12 as follows:
Normal erection of operations include the correction of minor misfits by moderate amounts of reaming, chipping, welding, or cutting, and the drawing of elements into line through the use of drift pins. Errors which can not be corrected by the foregoing means or which require major changes in member configuration are to be reported to the owner and fabricator by the erector, or enable whoever is responsible either to correct the error or to approve the most efficient and economic method of correction to be used by others.
NO BACK CHARGES WILL BE ACCEPTED UNLESS APPROVED IN WRITING BY THIS OFFICE.

NOTE:
Installers to take all necessary steps and precautions to insure that all equipment components are properly lubricated, aligned, trained, tightened and installed properly prior to start up of equipment.

FABRICATION TOLERANCES
UNLESS NOTED
FRACTIONS ±1/16"
DECIMAL ±0.01"
ANGULAR ±1/2°

NO.	DATE	REVISION	BY
2	07/10/12	REVISED METERING BIN NUMBERS	TB
1	04/06/12	GENERAL REVISIONS	TB
0	08/02/11	ISSUED FOR CONSTRUCTION	TB

Wolf
Material Handling Systems
19096 INDUSTRIAL BOULEVARD, ELK RIVER, MN 55330
(763) 576-9040 FAX: (763) 576-9070

CUSTOMER:

USER: GAINESVILLE RENEWABLE ENERGY CENTER
GAINESVILLE, FL

DESCRIPTION: 100 MW BIOMASS FACILITY
PROCESS AND INSTRUMENTATION DIAGRAM

DESIGNED BY: JAY HOUGHTON	DATE: 03/31/11	SCALE: NONE	
DRAWN BY: TOM BERNING	DATE: 05/05/11	PROPOSAL NO.:	
CHECKED BY: JAY HOUGHTON	DATE: 06/06/10	JOB NO.: 11-017	
APPROVED BY: ARLIN WOLF	DWG NO.: 017-00-E5	REV.: 2	

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