42.3
63.2
51.341
FUEL HOPPER
Hot exhaust enters Heat Exchanger
spiral shell water heat-exchanger flows around & up
insulation
hot exhaust cools & falls
Combustion chamber
Hot gasification air enters hearth
heated air enters combustion zone
Producer gas enters combustion zone
exhaust flue
gasification air enters heating ducts
coalbed grate rotating and
adjustable up-down
Ash cleanout & View Door
Ash collection
condensate plenum
Primary gasification air intakes
Secondary combustion air intakes
Section A-A
cool gasification air in
A
A
Roundy Gasifier-H2O heater
Air/Gas/Water flow path diagram
SIZE A
DATE 12/18/11
DWG NAME Gasifier-boiler Flow.icd
REV
SCALE
drawn by Larry Dobson
SHEET 1

DESCRIPTION - NOTES			
overview of gasifier fundamentals & nomenclature			
SIZE A	DATE 12/8/11	DWG NAME Gasifier-boiler Flow.icd	REV
SCALE	drawn by Larry Dobson		SHEET 2

DESCRIPTION - NOTES			
details of control mechanisms			
SIZE A	DATE 12/18/11	DWG NAME Gasifier-boiler Flow.icd	REV
SCALE	drawn by Larry Dobson		SHEET 3