MAJOR COMPONENTS			
1	Control Panel	21	N/A
2	Entrance Panel	22	Handholes (6) 3.25" x 4.5"
3	Blower Motor - 20 HP	23	Front Sight Port
4	Air Compressor - 5 HP	24	Rear Sight Port
5	Combustion Safeguard Control - CB780E	25	Burner
6	Flame Scanner- Infrared	26	Alarm
7	Pressure Control - Operating Limit	27	Low Fire Hold Control
8	Pressure Control - High Limit (Manual Reset)	28	N/A
9	Pressure Control - Modulating	29	N/A
10	Main Low Water Column - Levelmaster II	30	Front Head Junction Box
11	Auxiliary Low Water Cutoff - Warrick 3C-2	31	Bottom Blowdown Piping
12	Steam Gauge	32	Surface Blowoff Piping
13	N/A	33	N/A
14	Stack Thermometer	34	N/A
15	Safety Valve (2) Set @ 150#	35	N/A
16	Gas Train	36	N/A
17	Fuel Oil Piping Terminal	37	N/A
18	Fuel Oil Pump Assembly	38	N/A
19	Manway 12" x 16"	39	N/A
20	N/A	40	N/A

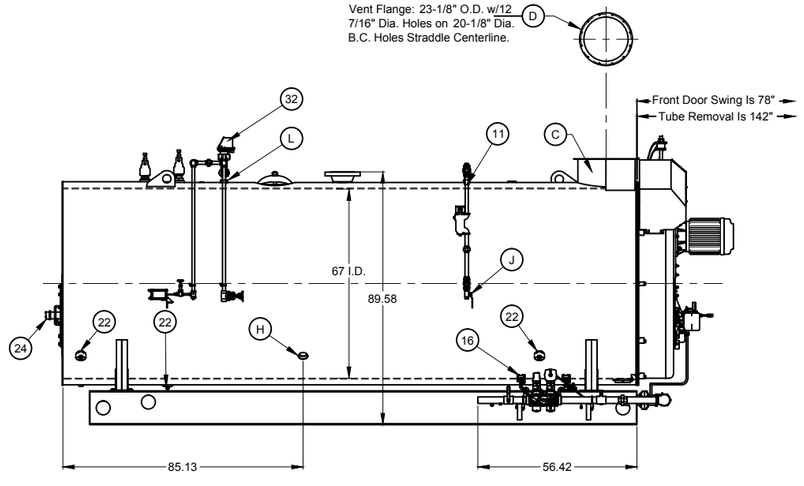
SERVICE CONNECTIONS	
A	Electric - Main Power Supply- 460 / 3 / 60
B	N/A
C	Exhaust Vent Pipe - 20" OD
D	Vent Flange (See Detail)
E	Steam Outlet - 6" 300# R.F. Flange
F	N/A
G	N/A
H	Feedwater - (2) 2.0 NPT
I	Bottom Blowdown - (2) 1.5 NPT
J	Water Column Blowdown - 0.75 NPT
K	Gauge Glass Blowdown - 0.25 NPT
L	Surface Blowoff - 1.0 NPT
M	N/A
N	Main Gas - 2.0
O	Minimum Inlet Gas Pressure Required is 55" w.c. Maximum Inlet Gas Pressure Required PSI: TBD Rating - 12,246 (cfh) MBtu
P	Oil Inlet - 0.75 NPT (75 PSI Required at Inlet) Rating - 87.5 gph
Q	Oil Outlet - 0.75 NPT
R	Chemical Feed - 1.0 NPT
S	Safety Valve - (1) Kunkle 6010GFE 1.25X1.5 FPT (Outlet)
T	Safety Valve - (1) Kunkle 6010HGE 1.5X2.0 FPT (Outlet)

BOILER SPECIFICATIONS
Boiler Designation - CBEX ELITE 200 300
Design Pressure - 150 ST
Design Rating -300 hp
Emissions - 60 ppm
Fuel(s) - No. 2 Oil and Natural Gas
Steam Capacity - 10,350 # stm/hr @212 deg F
Fireside Heating Surface - 860 Sq. Ft.
Dry Weight - 18,540 LB
Normal Water Weight - 12,190 LB
Gallons (Operating) - 1,462
Code Compliance - N/A

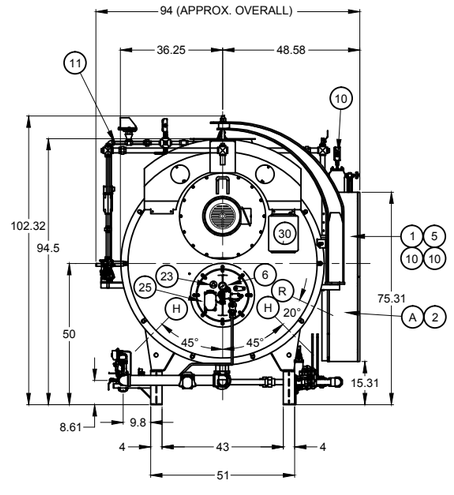
NOTES

* Boiler is Designed and Constructed in Accordance with the ASME Boiler and Pressure Vessel Code - Section 1 High Pressure Boiler
* This Unit Complies with Insurance Underwriters Requirement for None Specified
* The Boiler Package is painted with High Temperature Light Blue Enamel
* The Burner Operation is Full Modulating
* The Boiler Burner Package Has A UL Label

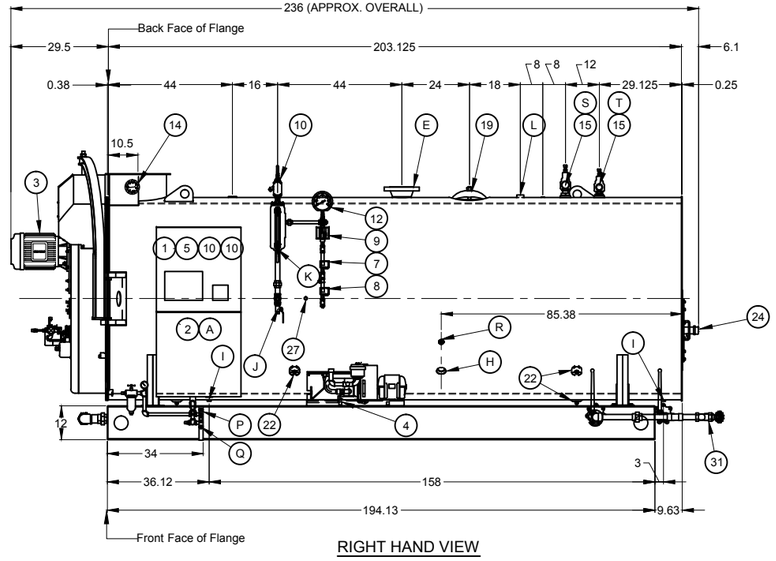
This Boiler Is Provided with:
1. Control Circuit Transformer
2. Welded End Caps on Baserails



LEFT HAND VIEW



FRONT VIEW



RIGHT HAND VIEW

THIS DRAWING IS PROPERTY OF CLEAVER-BROOKS DIVISION
IT IS SUBJECT TO CHANGE WITHOUT NOTICE, AND IS NOT TO BE COPIED OR USED IN ANY WAY DETRIMENTAL TO THE COMPANY.

REVISIONS

00	-	-	-

CAUTION

DIMENSIONS SHOWN ARE APPROXIMATE AND SHOULD NOT BE USED IN RESTRICTIVE LAYOUTS OR TO PREFABRICATE ASSEMBLIES UNLESS CLEAVER-BROOKS HAS BEEN CONSULTED. IT IS STRONGLY RECOMMENDED THAT THE CUSTOMER REQUEST AS-BUILT CERTIFIED DRAWINGS FOR THESE CASES.

WARNING

LIFTING LUGS PROVIDED ON THE VESSEL SHALL ONLY BE USED TO LIFT THE VESSEL WHEN IT IS DRY.

WARNING

CHANGES, MODIFICATIONS OR ALTERATIONS ARE STRICTLY PROHIBITED.

CHANGES TO THIS DRAWING AND SUBSEQUENT MODIFICATION OF EQUIPMENT COULD RESULT IN DAMAGE TO THE EQUIPMENT AND/OR SERIOUS PERSONAL INJURY.

PRELIMINARY

PRELIMINARY

DIMENSIONAL DIAGRAM

SIZE D

SHT 01 OF 02

SCALE N.T.S.

DATE 12/21/11

DRAWN H L J

CHECKED BY M S T

CleaverBrooks

MODEL	FUEL	SIZE	PRESSURE	CAPACITY
CBEX ELITE	200	300	150ST	
VOLTS 460	PHASE 3	HERTZ 60	WIRE 3	INSURANCE N/A

DRWG. NO. CBEX ELITE 300 HP 150 00