MODEL 5000
USER'S MANUAL

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Overview

The Model 5000 controls temperature, carbon, and quench with a touch screen operator interface.

There is an indicator light on the top of the enclosure. When a cycle is running, the green light will be lit. Once the cycle finishes, the yellow light will be lit. If there is an alarm, the red light will be lit. More than one light can be lit at a time. On the front of the enclosure there is a horn and a bell. The horn will sound for alarms while the bell will sound for the end of a cycle. There are two green indicator lights on the front of the enclosure. The green light on the left is lit when atmosphere gas is enabled. The green light on the right is lit when Event 1 is running. The three red switches allow the operator to silence alarms if the unit is alarming. On the left is a switch for a Furnace Overtemp alarm. In the middle is a switch for Alarms 1 and 2. On the right is a switch for the Quench Overtemp.

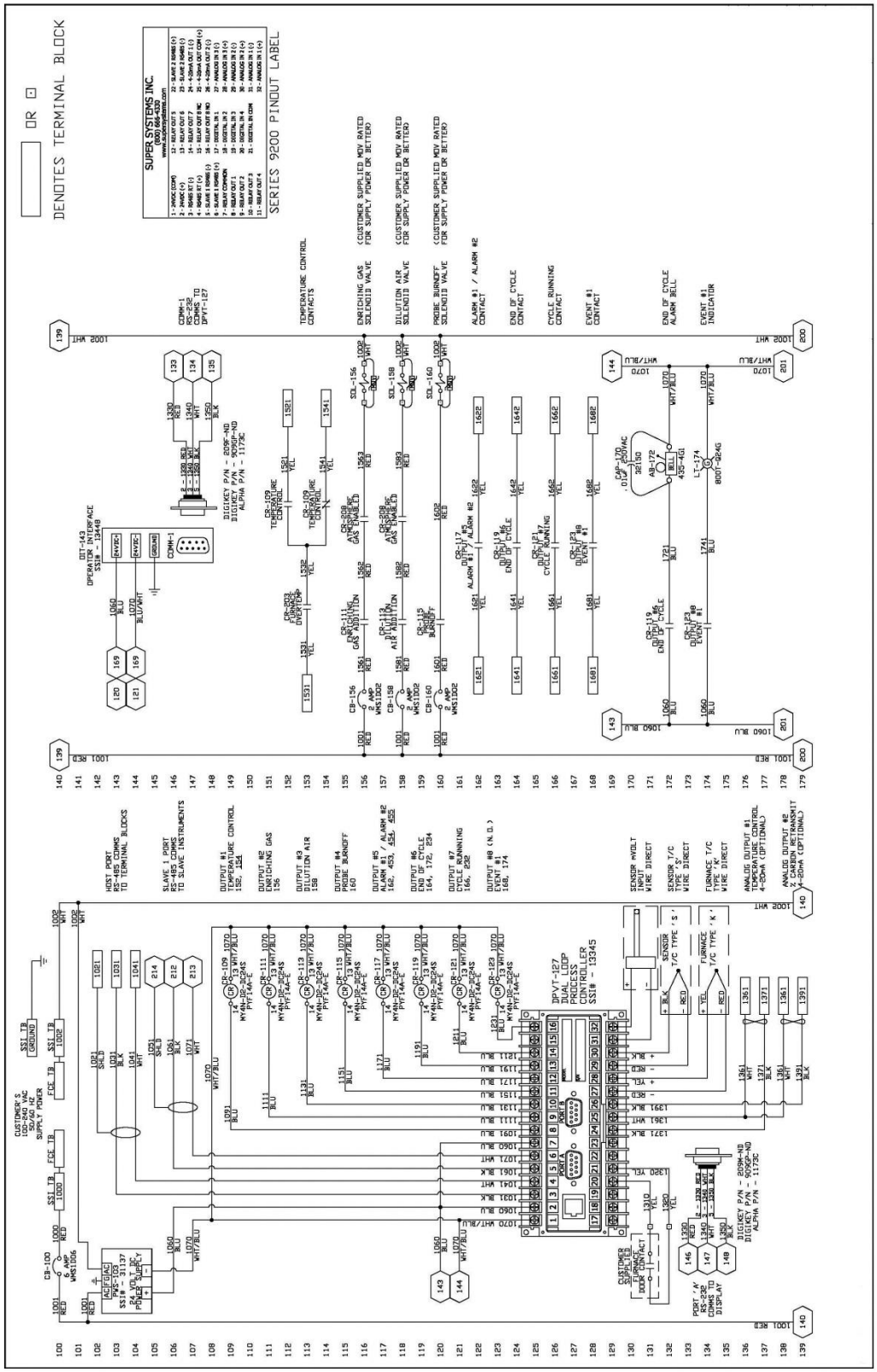
For information on the touch screen operator interface, please reference the *Series 9205 Operational Manual.* For information on the overtemp controllers, please reference the *7SL High Limit* manual. For information on the temperature controller, please see the *7EK Temperature Controller* manual.

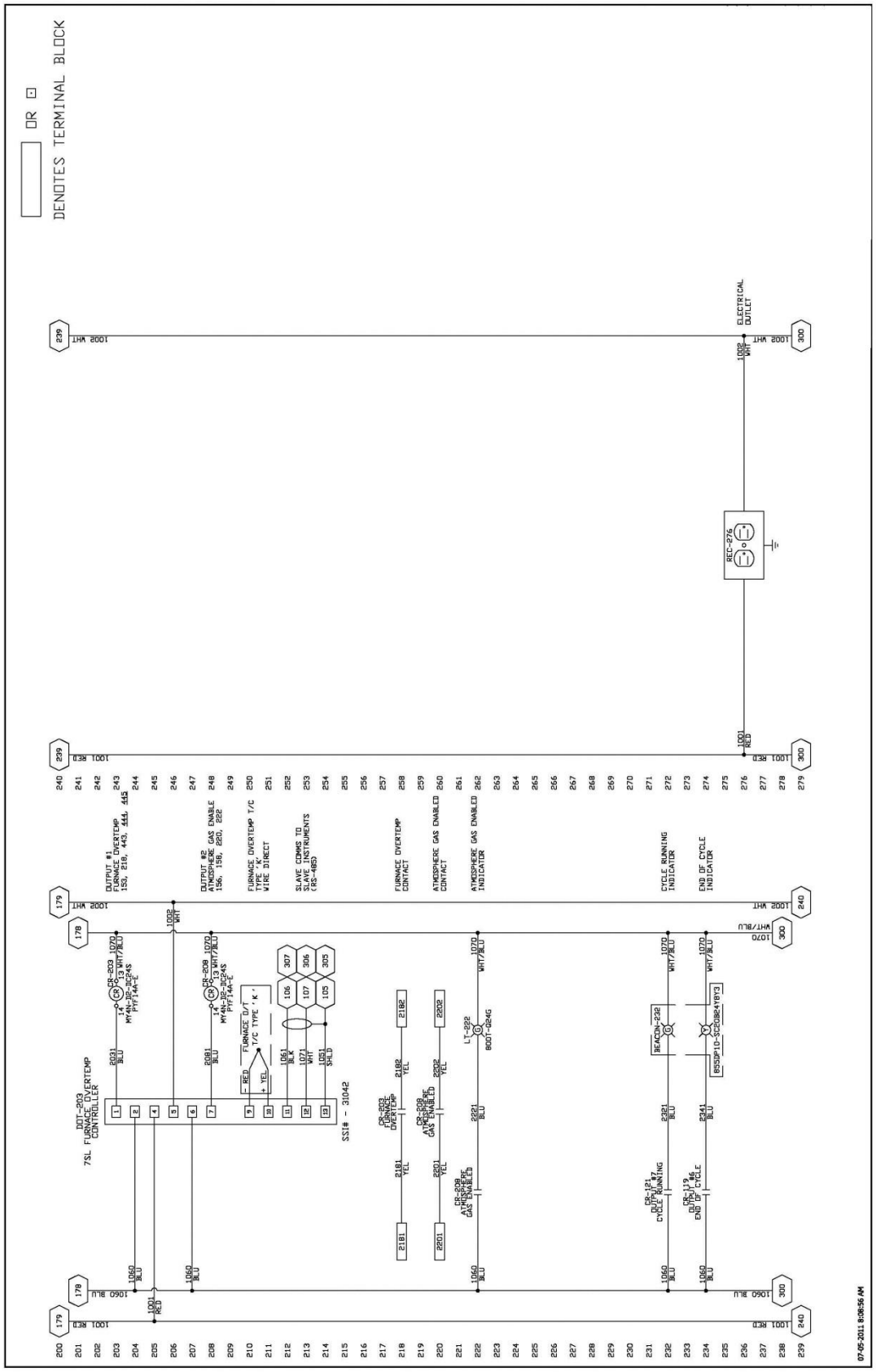
Spare Parts

The following is a list of spare parts recommended for the Model 5000.

P/N	Description
31135	Power Supply 24V DC
32123	24V DC Isolation Relay
32117	24V DC Isolation Relay Sockets
13339	Utility Software
13335	Flash Card
13333	Flash Card Reader
13443	9205 Controller
13448	5.7” Operator Interface
31042	Model 7SL Hi-Limit
31080	Model 7EK

Model 5000 Electrical Drawings and Plumbing Connections




DENOTES TERMINAL BLOCK
DR
ELECTRICAL OUTLET
REC-276
DOT-203 7SL FURNACE OVERTEMP CONTROLLER
OUTPUT #1 FURNACE OVERTEMP 153, 218, 443, 444, 445
OUTPUT #2 ATMOSPHERE GAS ENABLE 156, 158, 220, 222
FURNACE OVERTEMP T/C TYPE 'K' WIRE DIRECT
SLAVE COMMS TO SLAVE INSTRUMENTS (RS-485)
FURNACE OVERTEMP CONTACT
ATMOSPHERE GAS ENABLED CONTACT
ATMOSPHERE GAS ENABLED INDICATOR
CYCLE RUNNING INDICATOR
END OF CYCLE INDICATOR
SSI# - 31042
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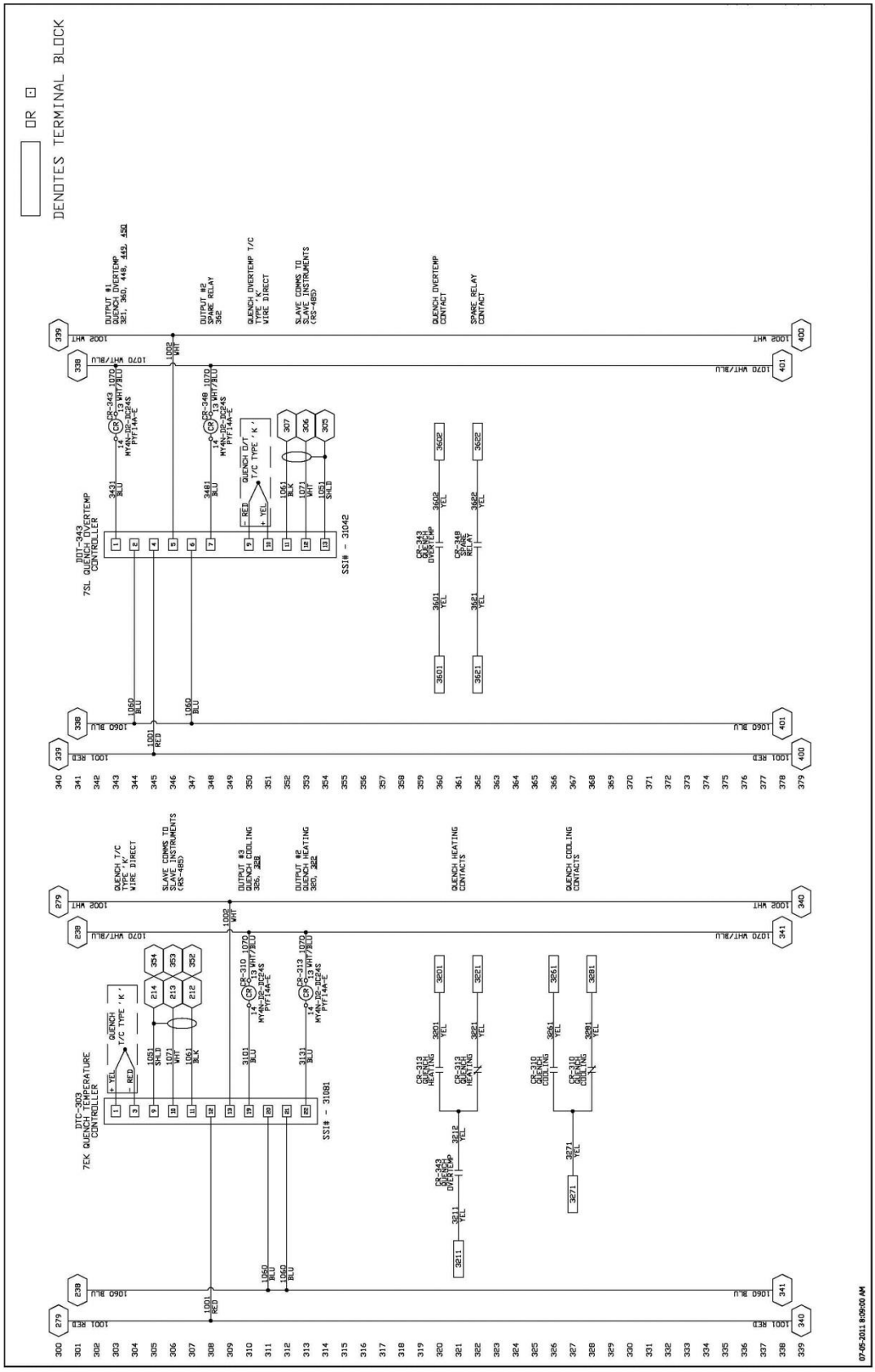
DENOTES TERMINAL BLOCK
OR
DTC-343
7SL QUENCH OVERTEMP
CONTROLLER
SSI# - 31042
DTC-309
7EK QUENCH TEMPERATURE
CONTROLLER
SSI# - 31081
OUTPUT #1
QUENCH OVERTEMP
321, 360, 448, 449, 450
OUTPUT #2
SPARE RELAY
362
QUENCH OVERTEMP T/C
TYPE 'K'
WIRE DIRECT
SLAVE COMMS TO
SLAVE INSTRUMENTS
(RS-485)
QUENCH OVERTEMP
CONTACT
SPARE RELAY
CONTACT
QUENCH T/C
TYPE 'K'
WIRE DIRECT
SLAVE COMMS TO
SLAVE INSTRUMENTS
(RS-485)
OUTPUT #3
QUENCH COOLING
326, 328
OUTPUT #2
QUENCH HEATING
325, 327
QUENCH HEATING
CONTACTS
QUENCH COOLING
CONTACTS
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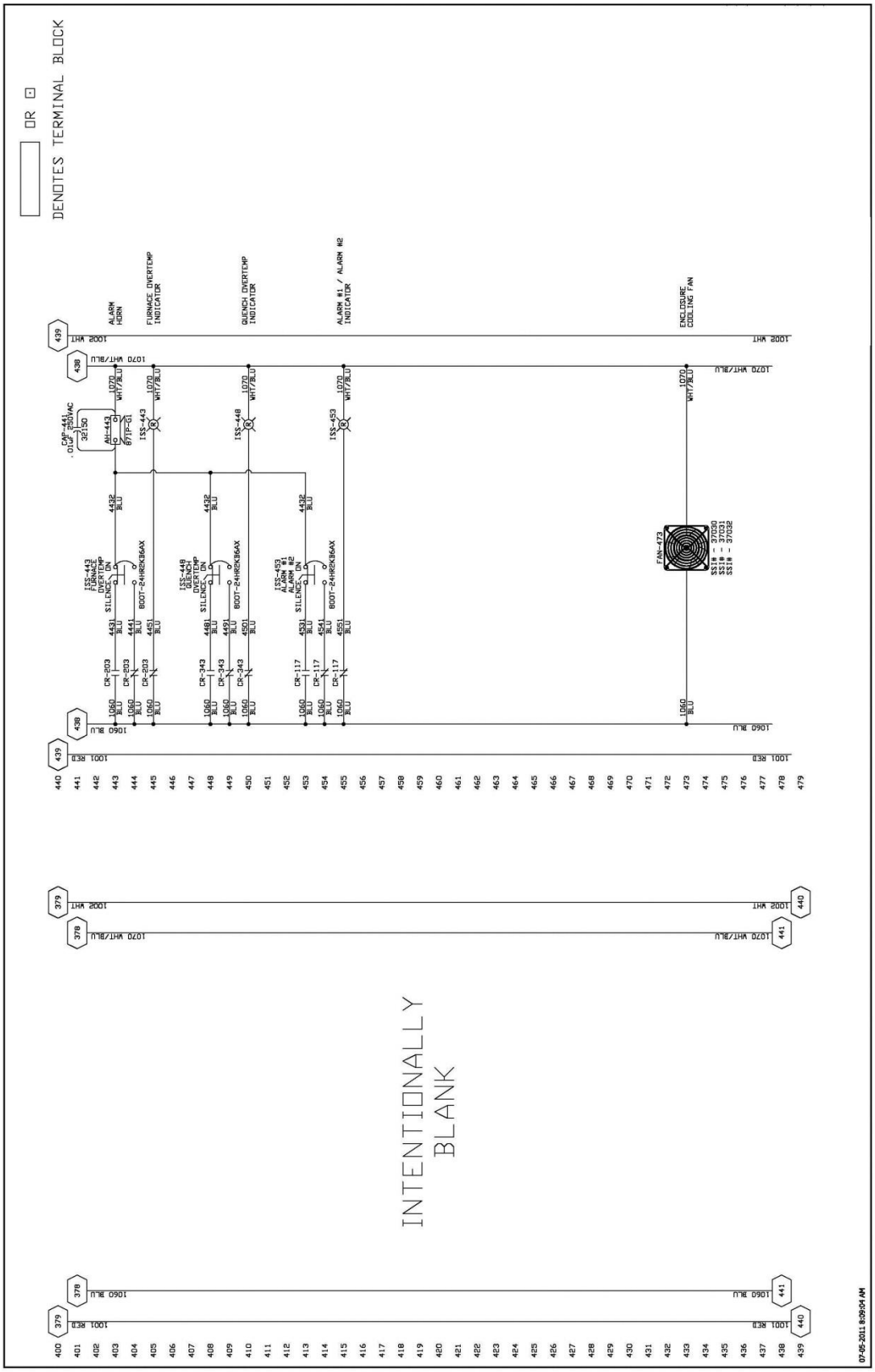
DR
DENOTES TERMINAL BLOCK
ALARM HORN
FURNACE OVERTEMP INDICATOR
QUENCH OVERTEMP INDICATOR
ALARM #1 / ALARM #2 INDICATOR
ENCLOSURE COOLING FAN
CAP-441 .01uF 250VAC 32150
AH-443 671P-G1
ISS-443
ISS-448
ISS-453
FAN-473
SS1# - 37030
SS1# - 37031
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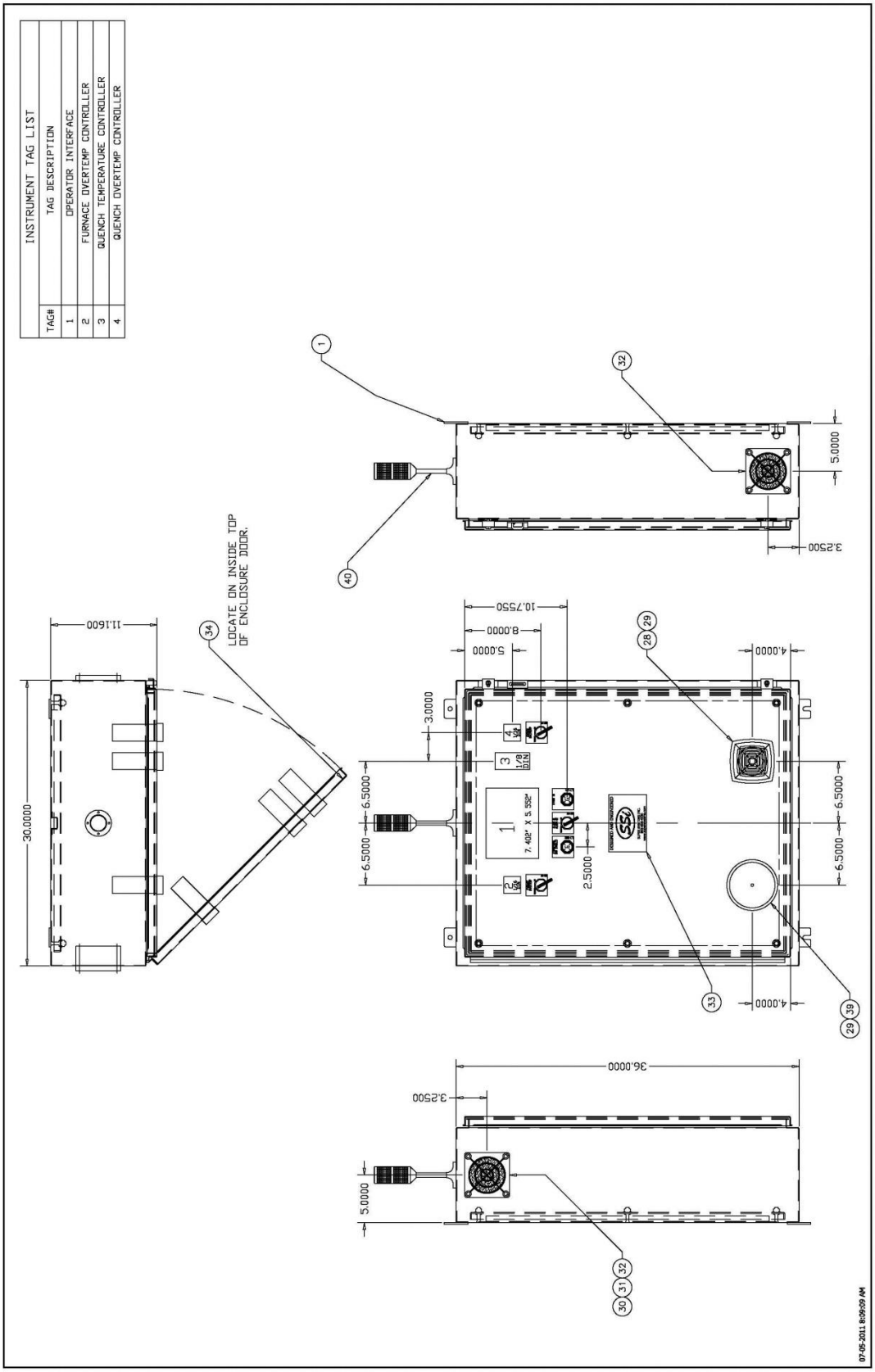
INSTRUMENT TAG LIST
TAG# | TAG DESCRIPTION
1 | OPERATOR INTERFACE
2 | FURNACE OVERTEMP CONTROLLER
3 | QUENCH TEMPERATURE CONTROLLER
4 | QUENCH OVERTEMP CONTROLLER
LOCATE ON INSIDE TOP OF ENCLOSURE DOOR.
11.1600
30.0000
10.7550
8.0000
5.0000
4.0000
3.0000
6.5000
2.5000
3.2500
36.0000
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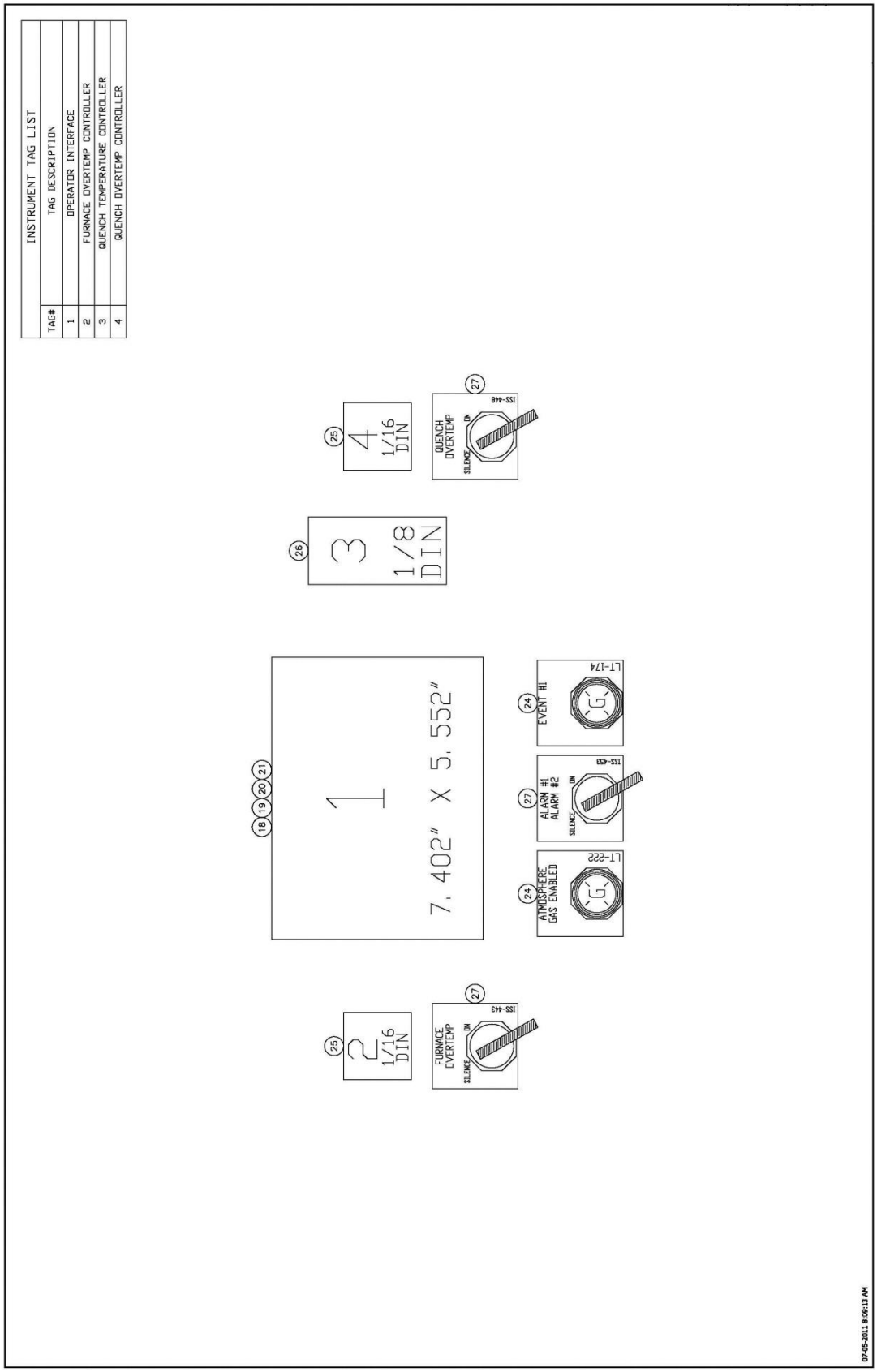
INSTRUMENT TAG LIST
TAG# | TAG DESCRIPTION
1 | OPERATOR INTERFACE
2 | FURNACE OVERTEMP CONTROLLER
3 | QUENCH TEMPERATURE CONTROLLER
4 | QUENCH OVERTEMP CONTROLLER
1
7.402" X 5.552"
18 19 20 21
2
1/16 DIN
25
FURNACE OVERTEMP
SILENCE
ON
SS-443
27
3
1/8 DIN
26
4
1/16 DIN
25
QUENCH OVERTEMP
SILENCE
ON
SS-448
27
ATMOSPHERE GAS ENABLED
24
LT-222
ALARM #1 ALARM #2
SILENCE
ON
SS-453
27
EVENT #1
24
LT-174
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Revision History

Rev.	Description	Date	MCO #
-	Initial Release	5-8-2012	2098