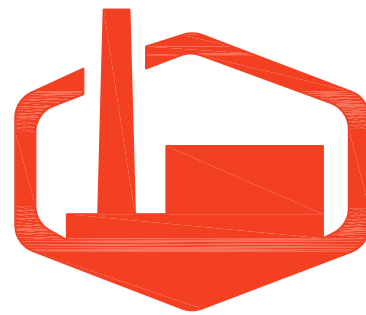




**DULUTH ENERGY
SYSTEMS**

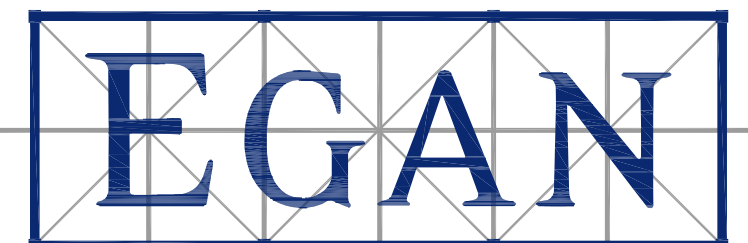
ONE LAKE PLACE DRIVE
DULUTH, MN 55802-1189

BURNER MANAGEMENT SYSTEM DULUTH STEAM BOILER #2

REV C

JOB# 424997

CONTROL SYSTEM DESIGNED AND BUILT BY



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D:\District Energy\Duluth Fireye Panels\Drawings\424997-1_100IDX.dwg 11/14/2016 11:57:35 AM

LIST OF DRAWINGS		
SHT	REVISION	DRAWING DESCRIPTIONS
01	C	ELECTRICAL SCHEMATIC
02	C	ELECTRICAL SCHEMATIC
03	C	ELECTRICAL SCHEMATIC
04	C	ELECTRICAL SCHEMATIC
05	C	SAFETY CIRCUIT SCHEMATIC
06	C	SAFETY CIRCUIT SCHEMATIC & PLC IO MODULE
07	C	PLC IO MODULES
08	A	ELECTRICAL SCHEMATIC
09	A	CONTROL PANEL LAYOUT
10	C	BACKPANEL LAYOUT
11	A	PANELVIEW ENCLOSURE

SYMBOL LEGEND	
■	FIELD
▲	FUEL TRAIN
M	MOTOR CONTROL
B	BMS PANEL
R	REMOTE PANEL
⊙	TERMINAL
◇	REFERENCE TO EXPANSION MODULE
----	FIELD WIRING
*	WIRING BY FIELD ELECTRICAL CONTRACTOR

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LEGEND	
—————	PANEL WIRING
-----	FIELD WIRING
⊗	PANEL TERMINAL
⊠	FIELD DEVICE TERMINAL



Dwg#: 424997 Egan #: 424997
Voltage 120V Ph: 1 Hz: 60
Total FLA: 8.8
Largest Motor FLA: N/A
SCCR: 5 KA
Enclosure type: 12

Enclosure openings must be filled by equipment marked with the same Type rating as enclosure. Use 75° deg. C copper wire minimum.

Fuse Chart:	
DESCRIPTION	AMPERAGE (A.)
105F	2A
106F	6A
702F	3A
803F	2A
806F	6A



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**DULUTH ENERGY
SYSTEMS**

ONE LAKE PLACE DRIVE
DULUTH, MN 55802-1189

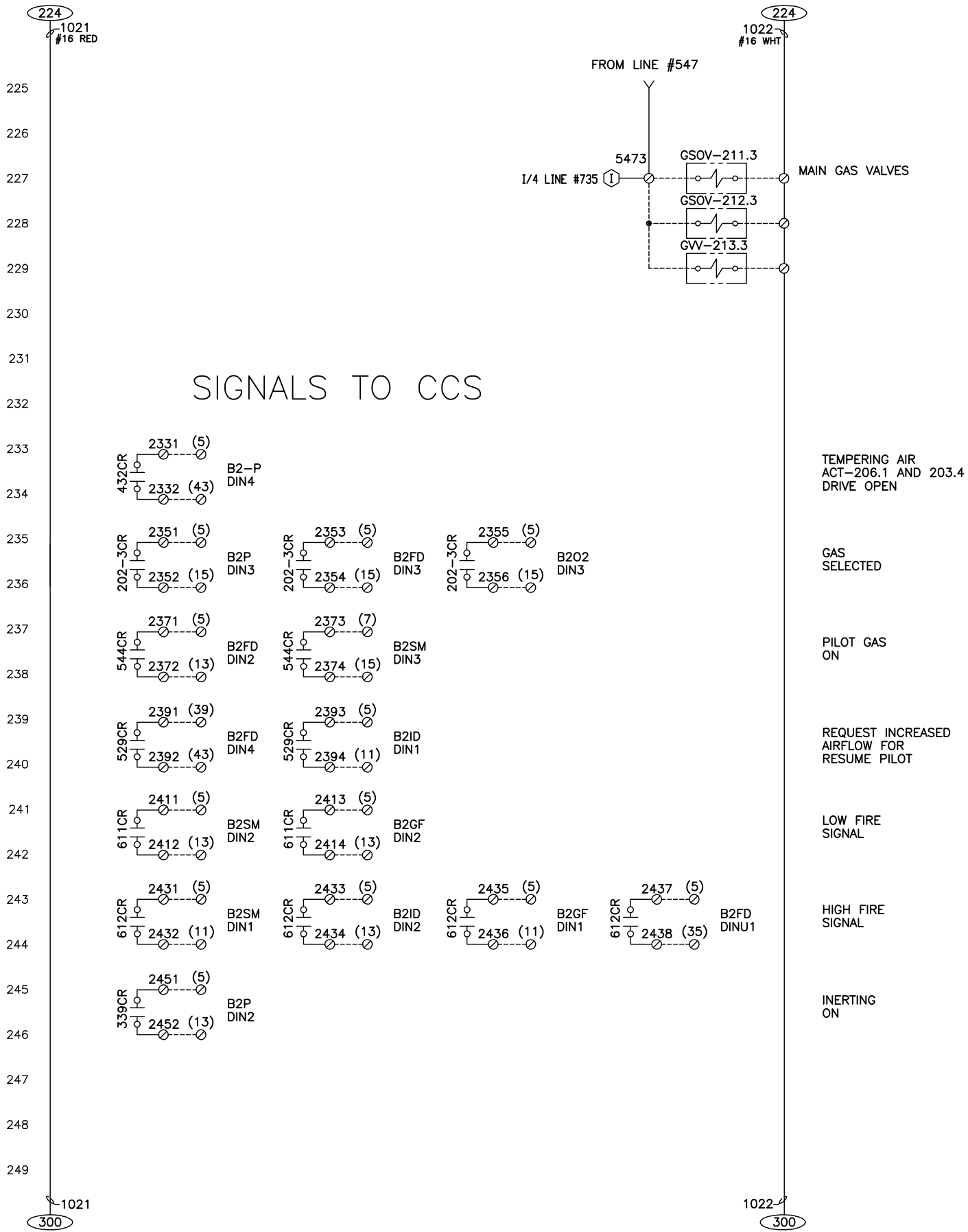
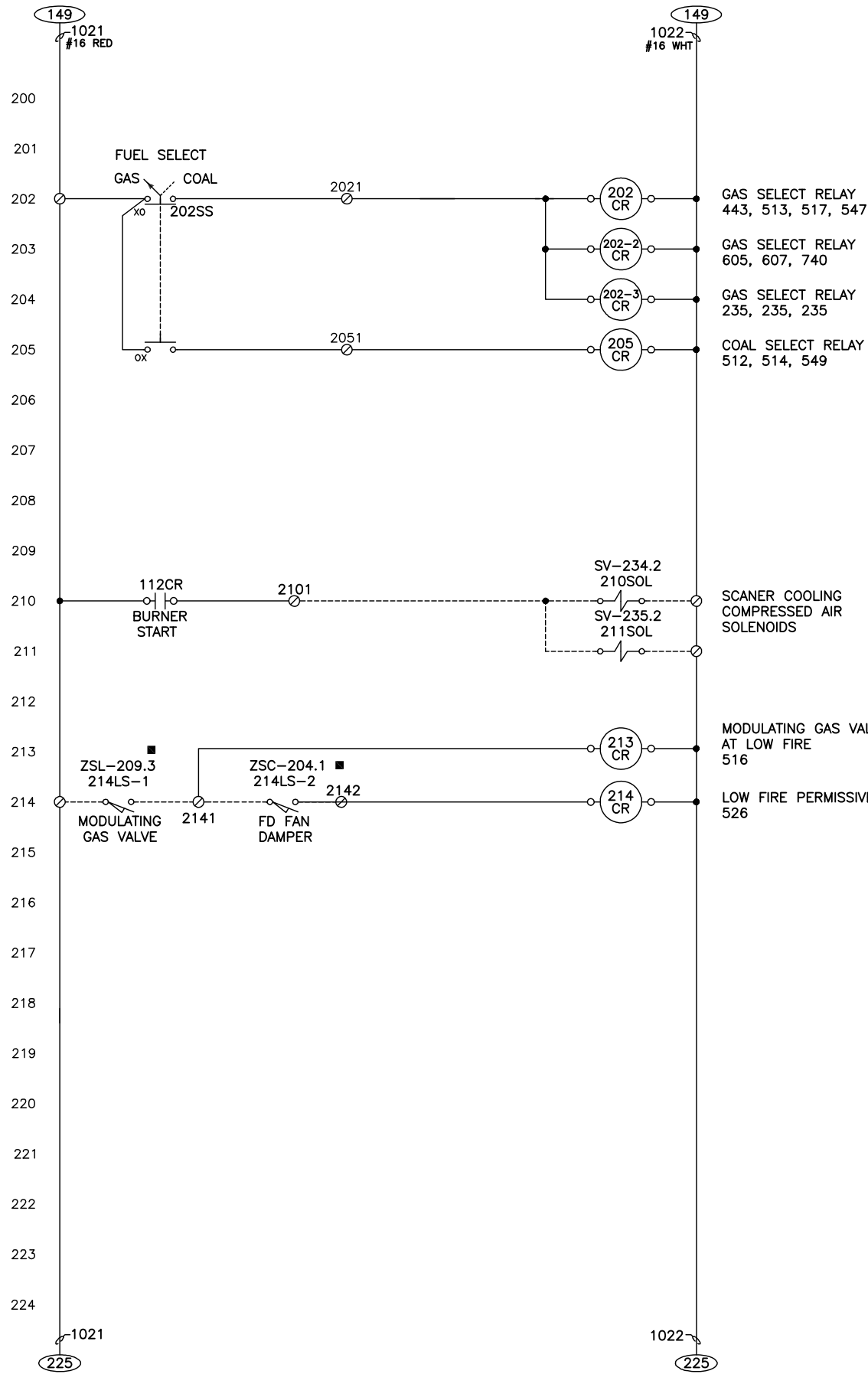
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INDEX SHEET	BURNER MANAGEMENT SYSTEM DULUTH STEAM BOILER #2	MAIN PANEL	JOB NO. : 424997	
			DRAWN BY : MDT	
			APPROVED : M. THOMAS	
			MDT	11/14/16
REV	DESCRIPTION	MDT	MDT	DATE
A	ASBUILT BURNER PANEL UPGRADE	MDT	MDT	08/16/16

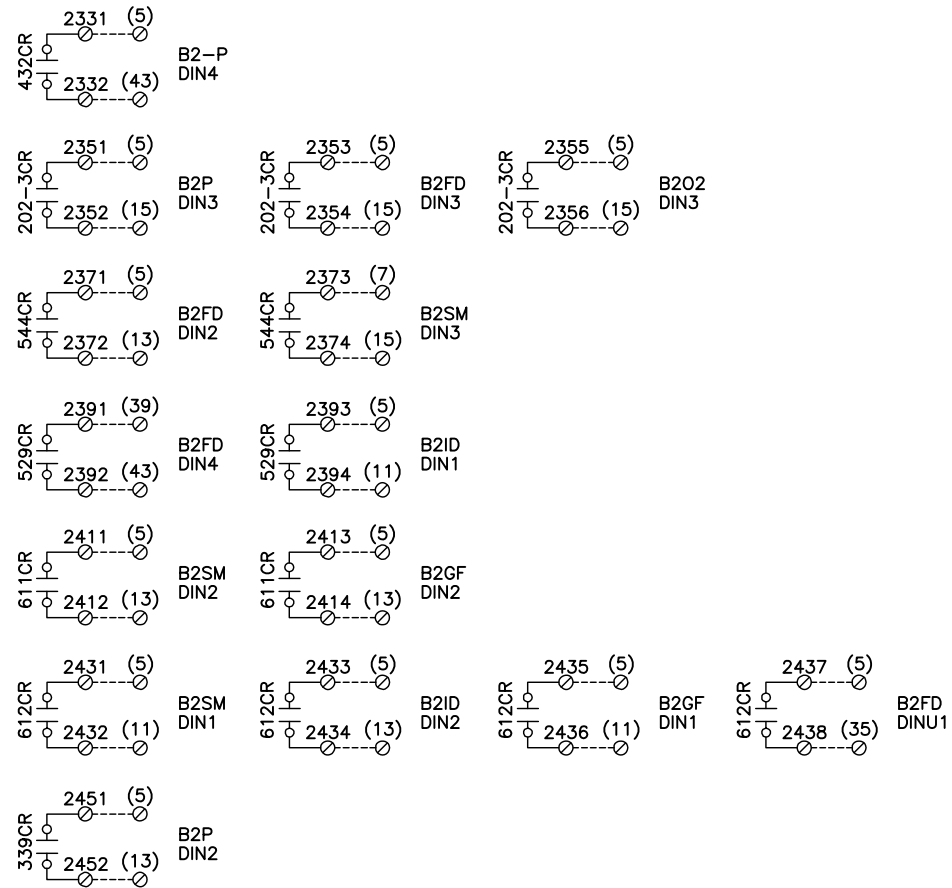
DWG. NO.
424997-1_100IDX
SHEET NO.
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DWG. NO.	424997-1_01
SHEET NO.	01

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SIGNALS TO CCS



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STANDARDS

DULUTH ENERGY
SYSTEMS



JOB NO. : 424997		DRAWN BY : MDT		APPROVED : M. THOMAS	
REV	C	ASBUILT	MDT	11/14/16	DATE
	B	202-3CR ADDED	MDT	08/31/16	DATE
	D	B2SM DIN3 SIGNAL ADDED	MDT	11/22/16	DATE
	REV	DESCRIPTION	DRWN	APPROVED	DATE
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ELECTRICAL SCHEMATIC
BURNER MANAGEMENT SYSTEM
DULUTH STEAM BOILER #2

DWG. NO.
424997-1_02

SHEET NO.
02

DULUTH ENERGY
SYSTEMS



JOB NO. : 424997		DRAWN BY : MDT		APPROVED : M. THOMAS	
REV	C	ASBUILT	MDT	11/14/16	DATE
	B	202-3CR ADDED	MDT	08/31/16	DATE
	D	B2SM DIN3 SIGNAL ADDED	MDT	11/22/16	DATE
	REV	DESCRIPTION	DRWN	APPROVED	DATE
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ELECTRICAL SCHEMATIC
BURNER MANAGEMENT SYSTEM
DULUTH STEAM BOILER #2

DWG. NO.
424997-1_02

SHEET NO.
02

DULUTH ENERGY
SYSTEMS



JOB NO. : 424997		DRAWN BY : MDT		APPROVED : M. THOMAS	
REV	C	ASBUILT	MDT	11/14/16	DATE
	B	202-3CR ADDED	MDT	08/31/16	DATE
	D	B2SM DIN3 SIGNAL ADDED	MDT	11/22/16	DATE
	REV	DESCRIPTION	DRWN	APPROVED	DATE
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ELECTRICAL SCHEMATIC
BURNER MANAGEMENT SYSTEM
DULUTH STEAM BOILER #2

DWG. NO.
424997-1_02

SHEET NO.
02

DULUTH ENERGY
SYSTEMS



JOB NO. : 424997		DRAWN BY : MDT		APPROVED : M. THOMAS	
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	REV	DESCRIPTION	DRWN	APPROVED	DATE
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ELECTRICAL SCHEMATIC
BURNER MANAGEMENT SYSTEM
DULUTH STEAM BOILER #2

DWG. NO.
424997-1_02

SHEET NO.
02

DULUTH ENERGY
SYSTEMS



JOB NO. : 424997		DRAWN BY : MDT		APPROVED : M. THOMAS	
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ELECTRICAL SCHEMATIC
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DULUTH STEAM BOILER #2

DWG. NO.
424997-1_02

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DULUTH ENERGY
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DULUTH ENERGY
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DULUTH ENERGY
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DULUTH STEAM BOILER #2

DWG. NO.
424997-1_02

SHEET NO.
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DULUTH ENERGY
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ELECTRICAL SCHEMATIC
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DULUTH STEAM BOILER #2

DWG. NO.
424997-1_02

SHEET NO.
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DULUTH ENERGY
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JOB NO. : 424997		DRAWN BY : MDT		APPROVED : M. THOMAS	
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ELECTRICAL SCHEMATIC
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DULUTH STEAM BOILER #2

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424997-1_02

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DULUTH ENERGY
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ELECTRICAL SCHEMATIC
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DULUTH ENERGY
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DULUTH STEAM BOILER #2

DWG. NO.
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DULUTH ENERGY
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	REV	DESCRIPTION	DRWN	APPROVED	DATE
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BURNER MANAGEMENT SYSTEM
DULUTH STEAM BOILER #2

DWG. NO.
424997-1_02

SHEET NO.
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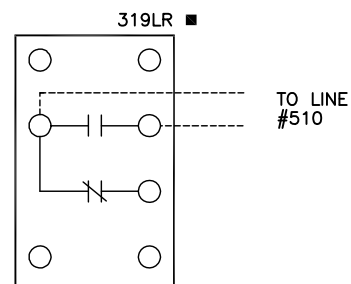
DULUTH ENERGY
SYSTEMS



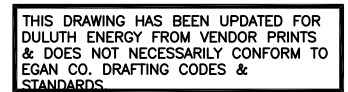
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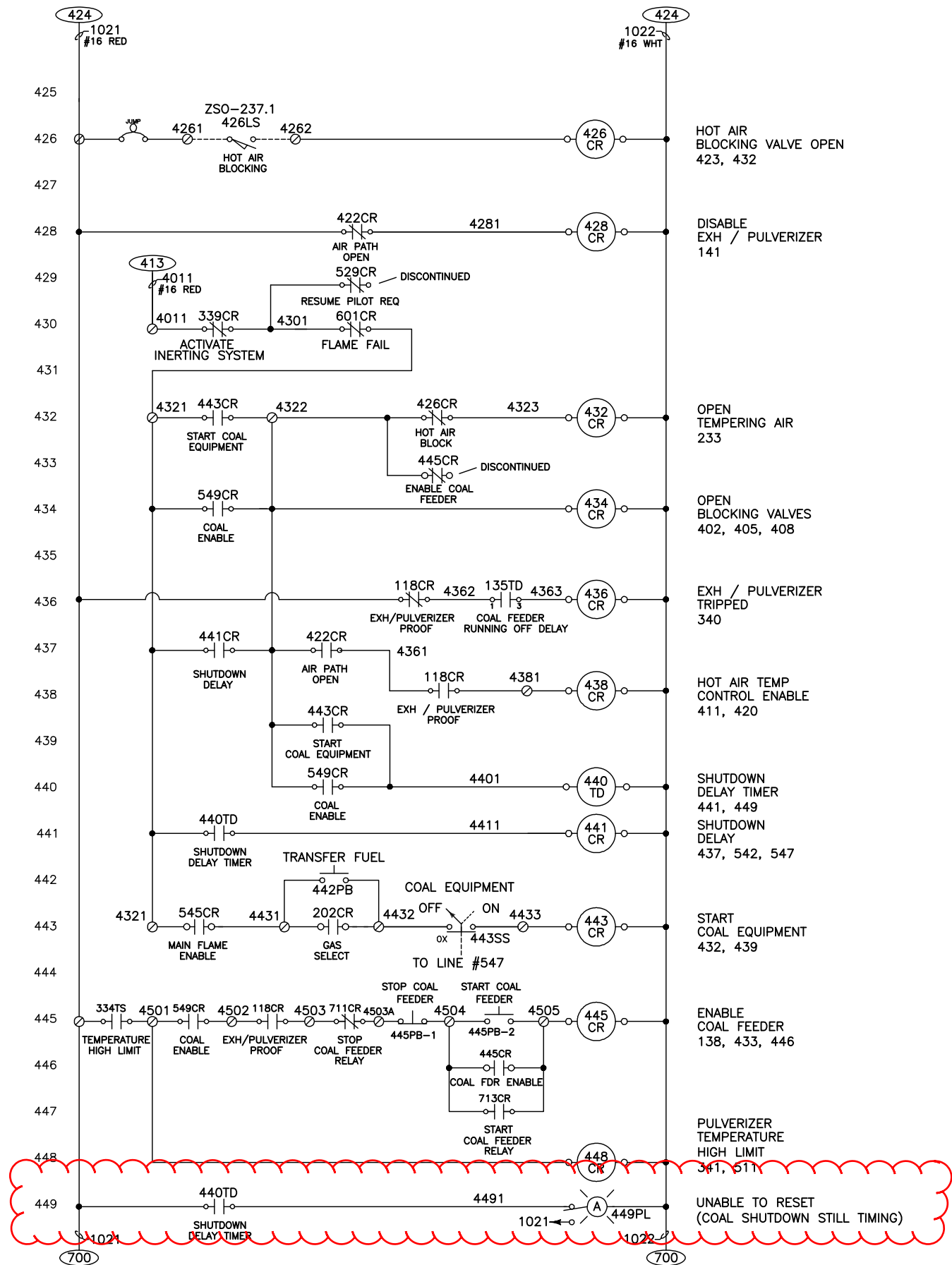
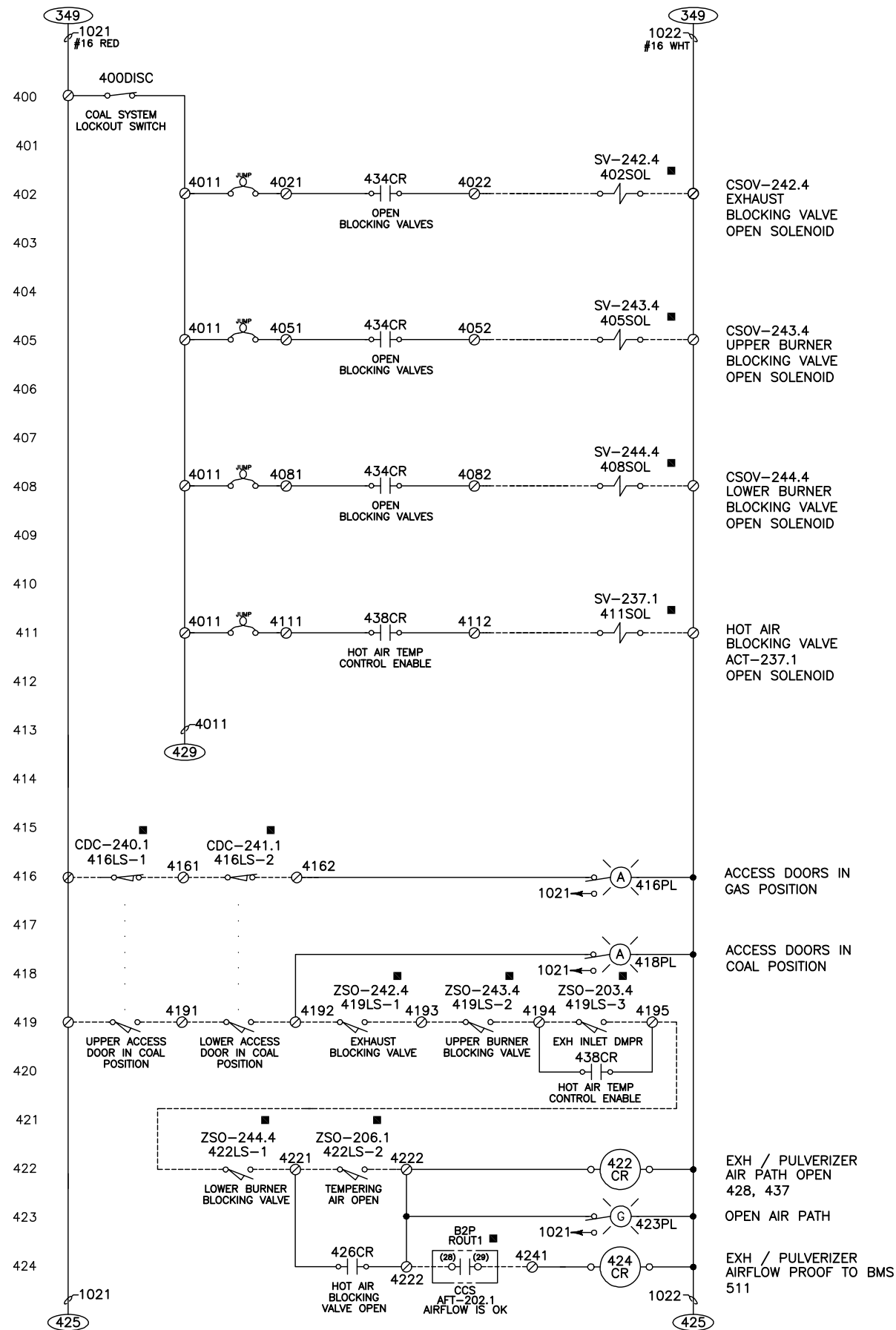
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BURNER MANAGEMENT SYSTEM
DULUTH STEAM BOILER #2

DWG. NO.
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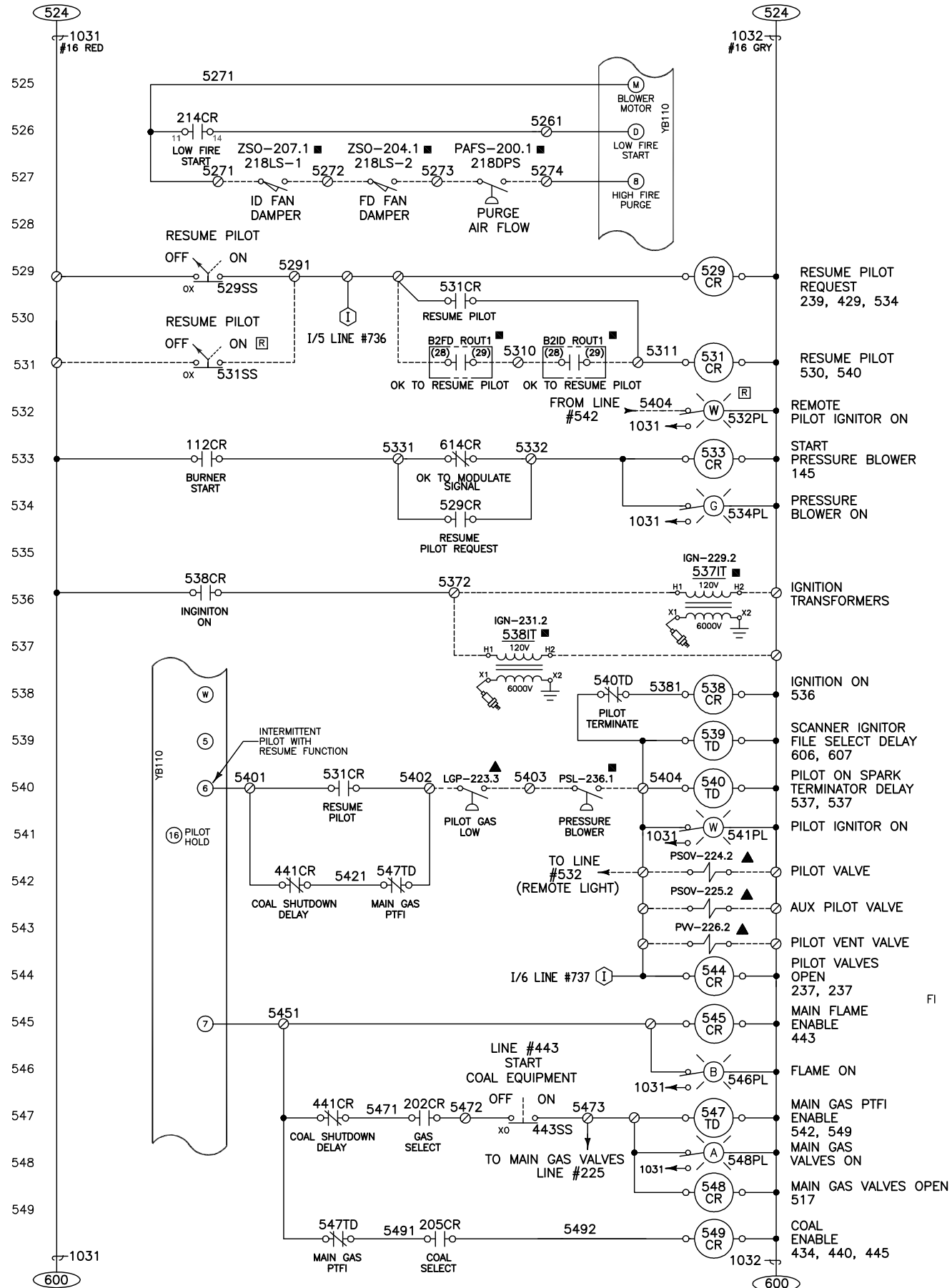
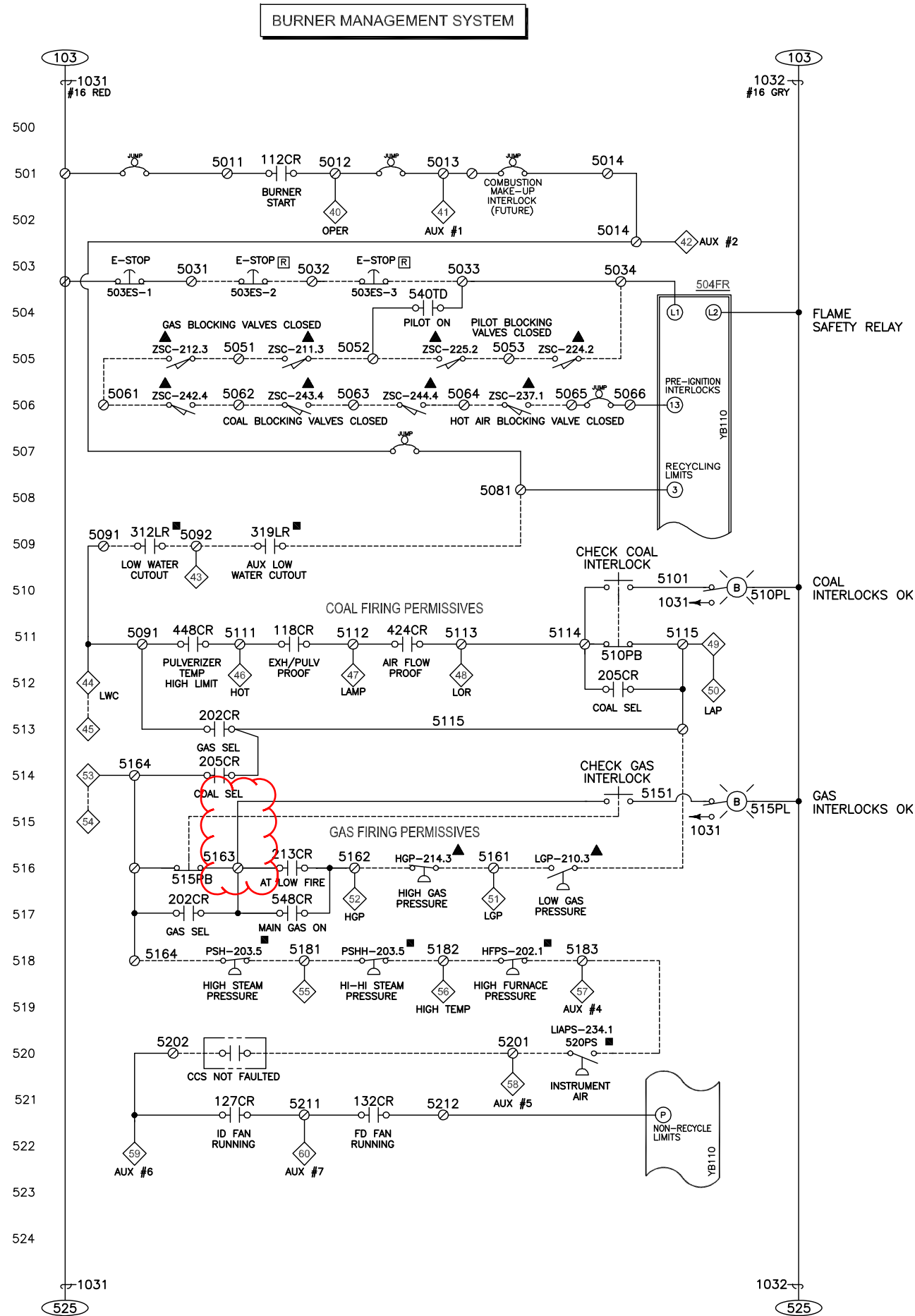
ALWC-201.5
AUX LOW WATER CUTOUT RELAY
509





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JOB NO.: 424997
DRAWN BY: MDT
APPROVED: M. THOMAS

DATE
11/14/16
08/31/16
01/19/17

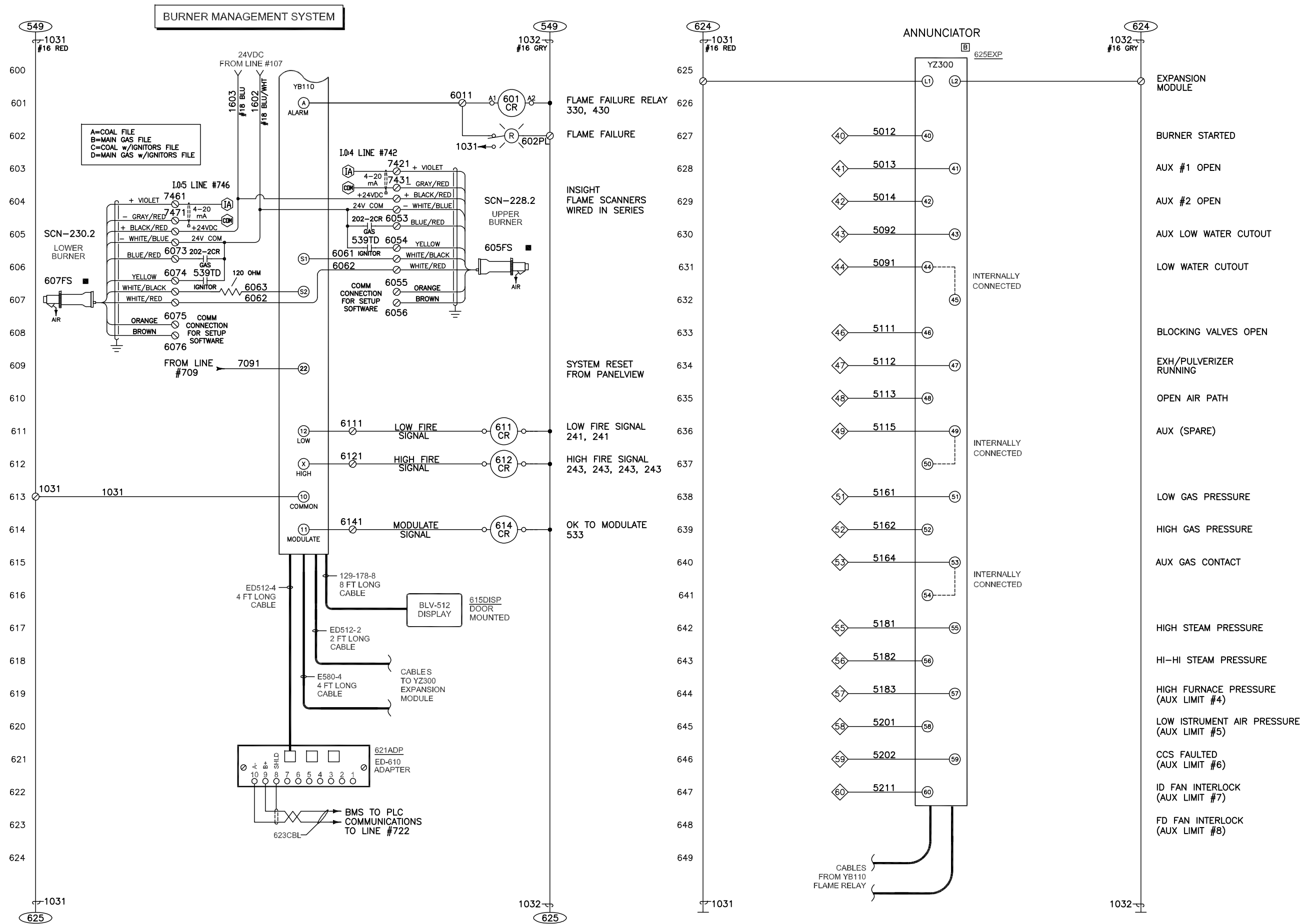
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REV
C ASBUILT
B 424CR CONTACT ADDED
D 424CR CONTACT ADDED

REV
D

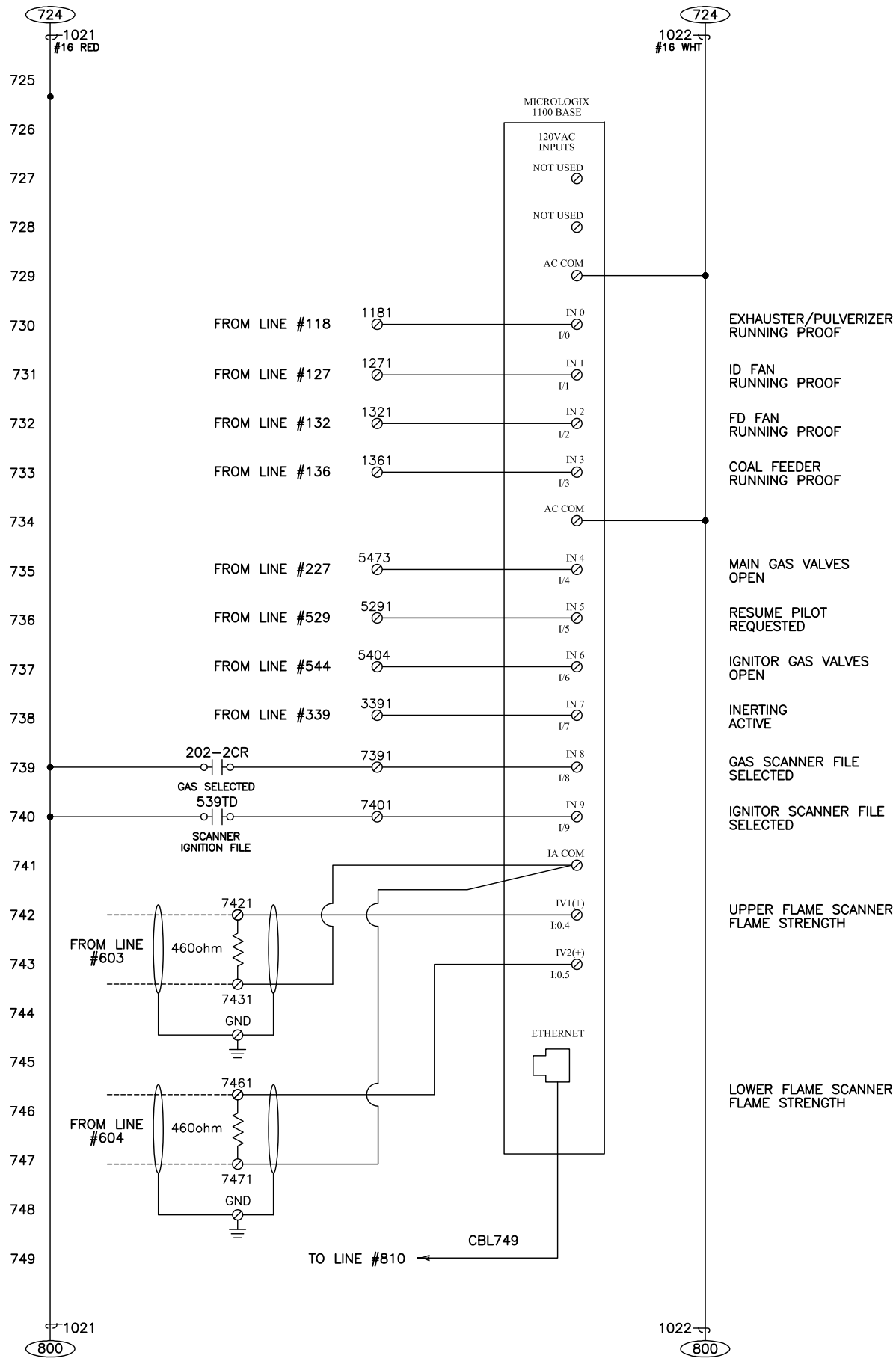
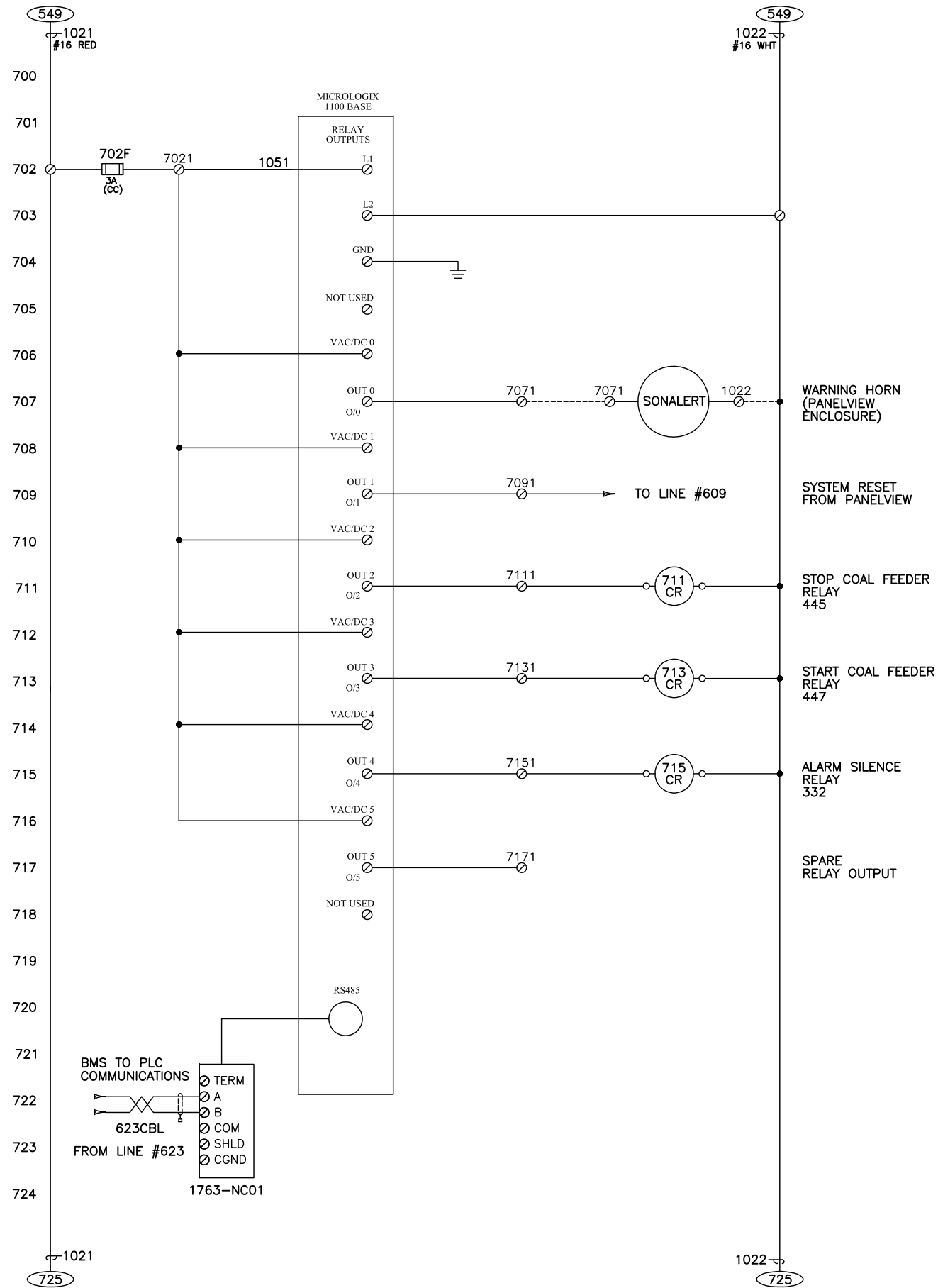
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424997-1_05

SHEET NO.
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SYSTEMS



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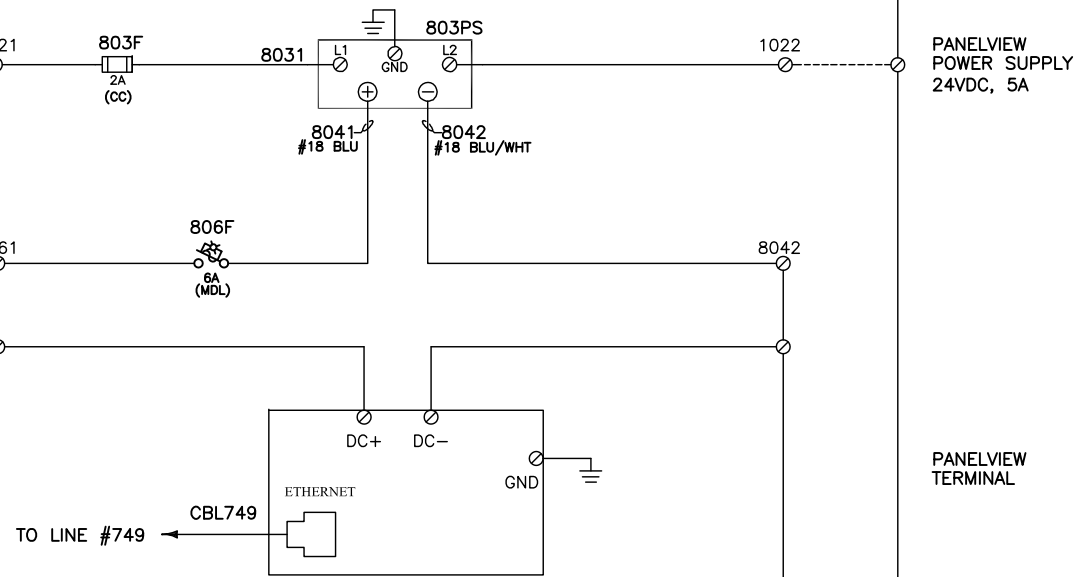
JOB NO.: 424997
DRAWN BY: MDT
APPROVED: M. THOMAS

REV	C	A	B	DESCRIPTION	DATE	APPROVED
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PLC IO MODULES
BURNER MANAGEMENT SYSTEM
DULUTH STEAM BOILER #2

DWG. NO.
424997-1_07

SHEET NO.
07



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**DULUTH ENERGY
SYSTEMS**

LAKE PLACE DRIVE
1, MN 55802-1189

44 4131 F: 763 595 4380



JOB NO.:	424997
DRAWN BY:	MDT
APPROVED:	M. THOMAS
MDT	08/16/16
APPROVED	DATE

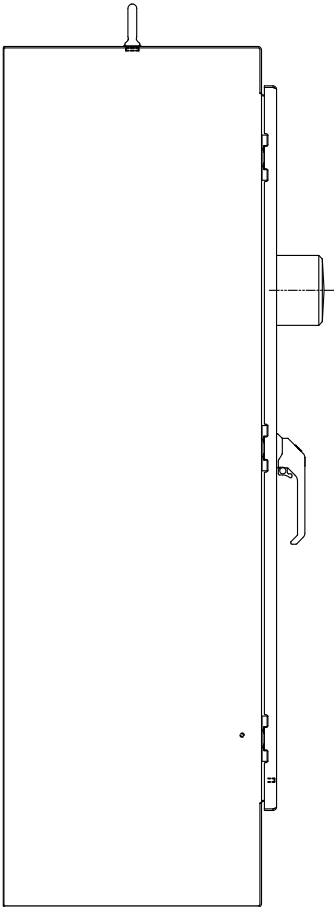
ELECTRICAL SCHEMATIC BURNER MANAGEMENT SYSTEM DULUTH STEAM BOILER #2		MAIN PANEL	
REV			
A	BURNER PANEL UPGRADE		MDT
REV	DESCRIPTION		DRAWN

DWG. NO.
424997-1_08

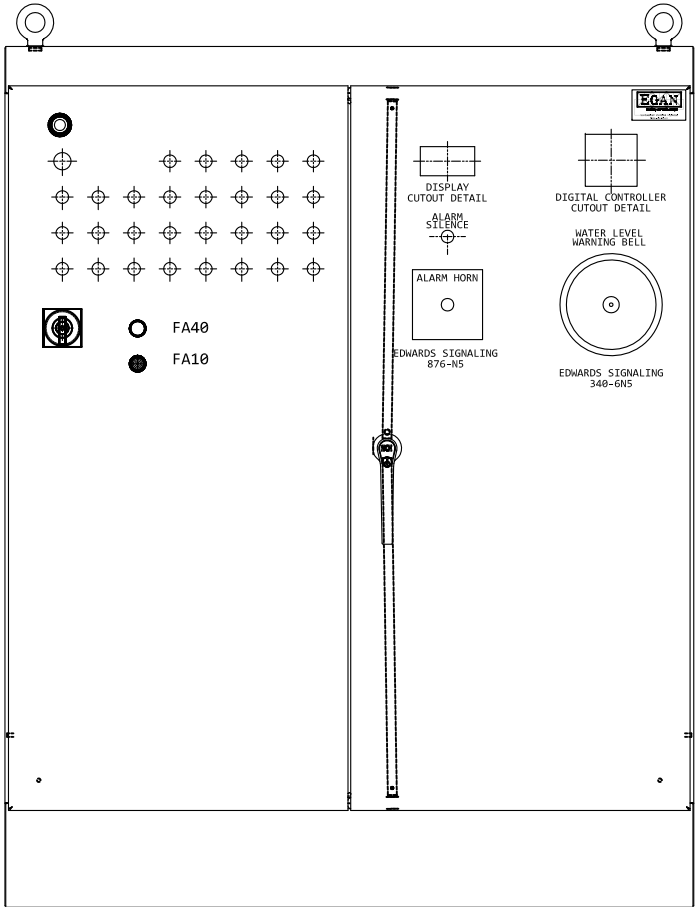
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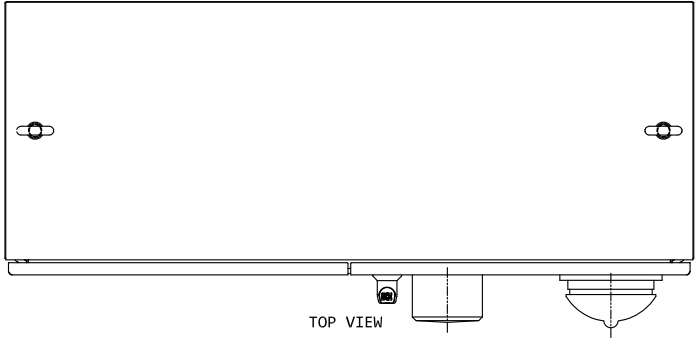
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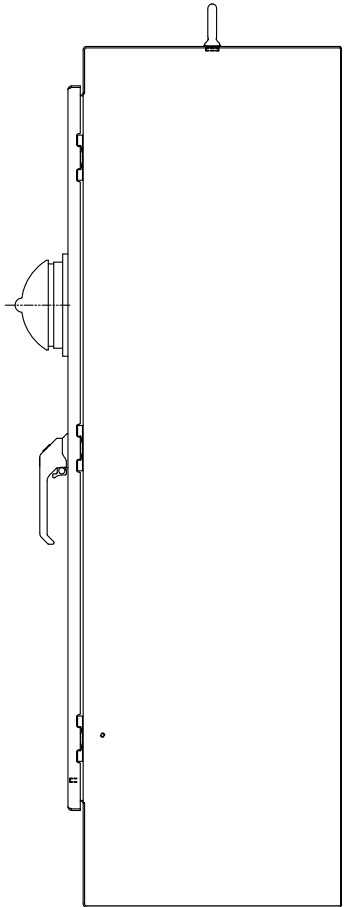
LEFT SIDE VIEW



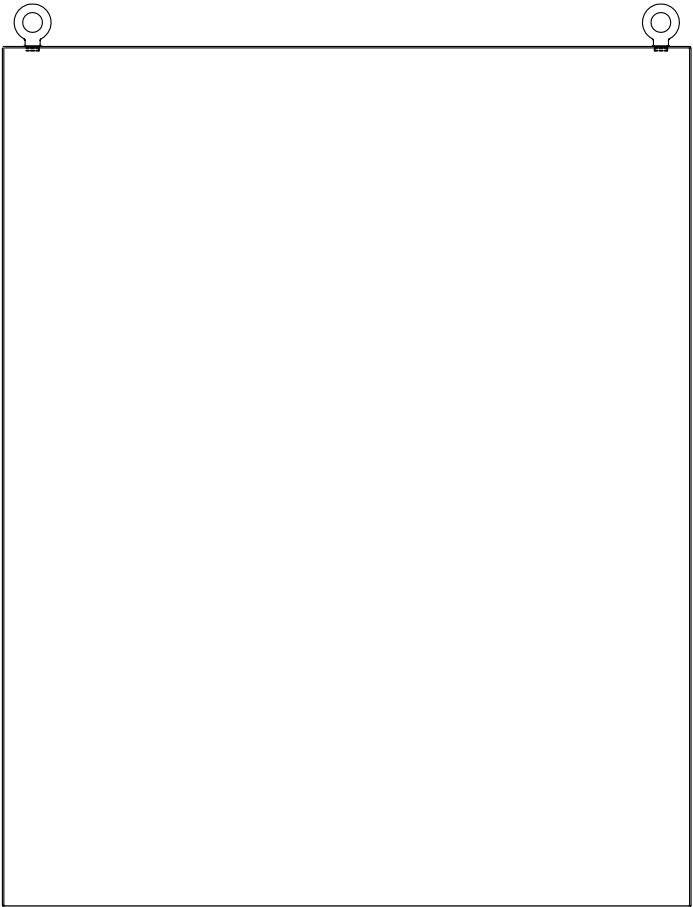
FRONT VIEW



TOP VIEW



RIGHT SIDE VIEW



BACK VIEW



**DULUTH ENERGY
SYSTEMS**

ONE LAKE PLACE DRIVE
DULUTH, MN 55802-1189

7625 Boone Avenue North | Brooklyn Park, MN 55428 | p: 763.544.4131 | f: 763.595.4380 | www.eganco.com

JOB NO. : 424997		MAIN PANEL	
DRAWN BY : DJN			
APPROVED : M. THOMAS			
REV	A	BURNER PANEL UPGRADE	DESCRIPTION
		DJN	MDT
		DRVN	APPROVED
			DATE
			08/16/16

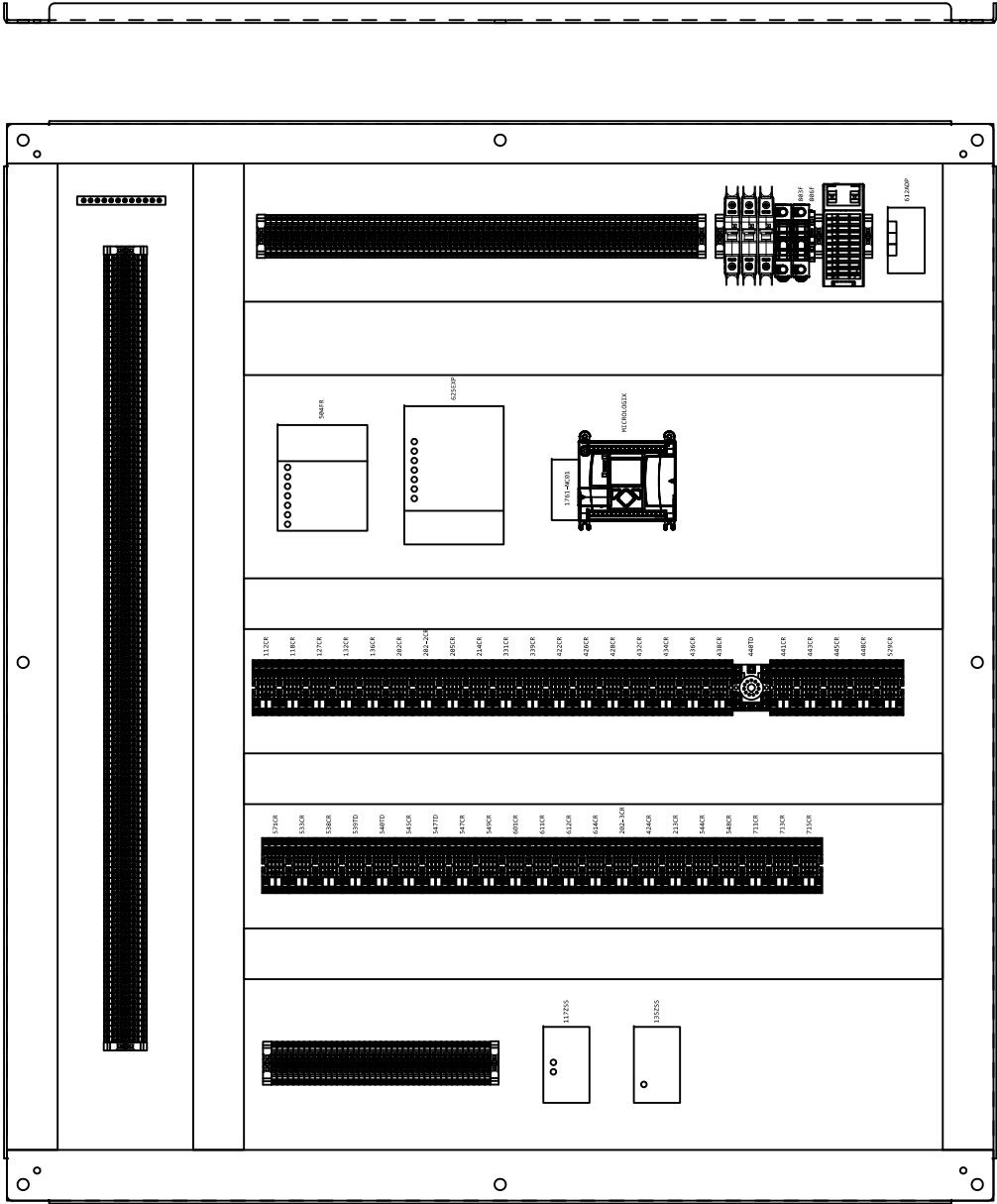
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SHEET NO.	09

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FULL PANEL FRONT VIEW

SAGINAW CONTROL & ENGINEERING
SCE-60P48F1



ONE LAKE PLACE DRIVE
DULUTH, MN 55802-1189

DULUTH ENERGY
SYSTEMS

JOB NO. : 424997
DRAWN BY : DJN
APPROVED : M. THOMAS

MAIN PANEL		DATE	
MDT	MDT	11/14/16	DATE
DJN	MDT	08/16/16	DATE
DRVN	APPROVED		

REV	DESCRIPTION
C	ASBUILT
A	BURNER PANEL UPGRADE
REV	

DWG. NO.
424997-1_10

SHEET NO.
10

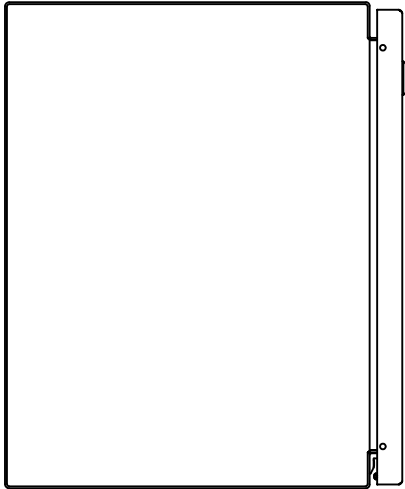
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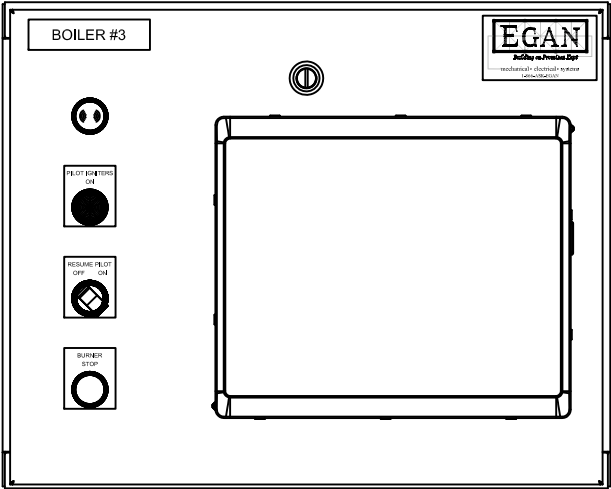
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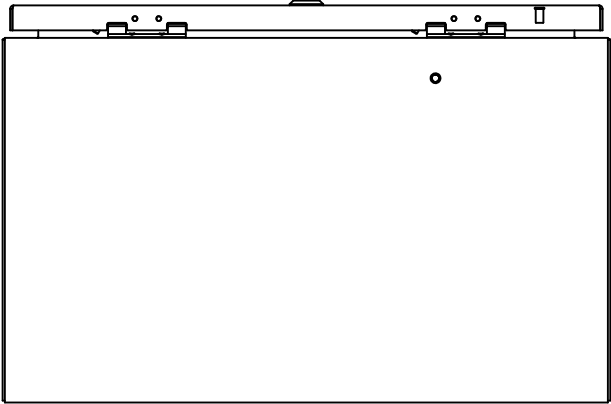
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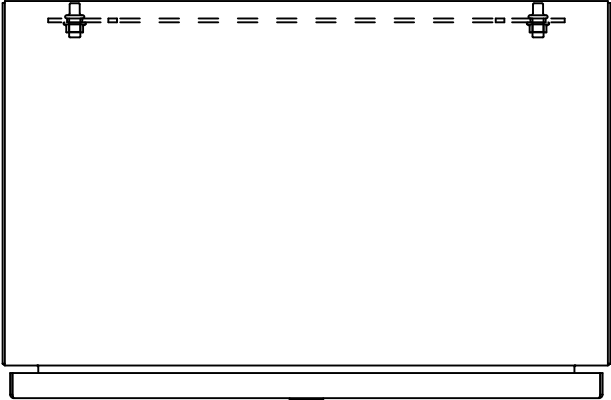
LEFT SIDE VIEW



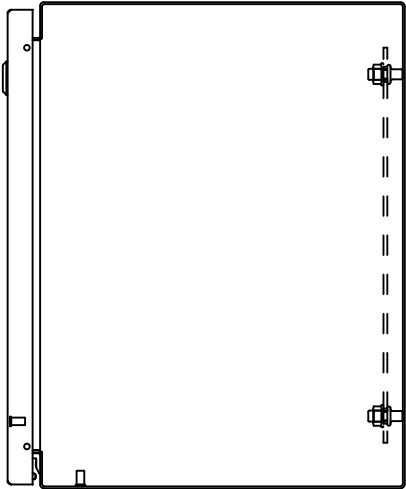
FRONT VIEW



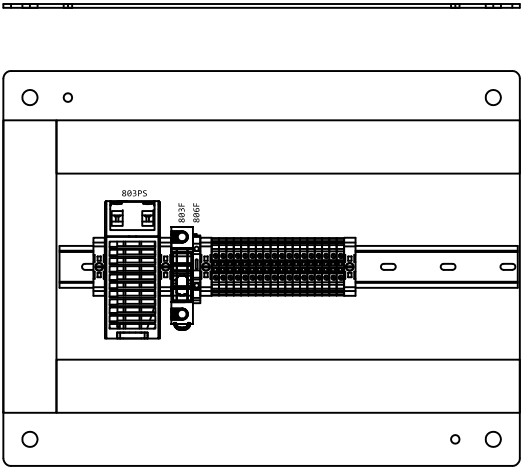
BOTTOM VIEW



TOP VIEW

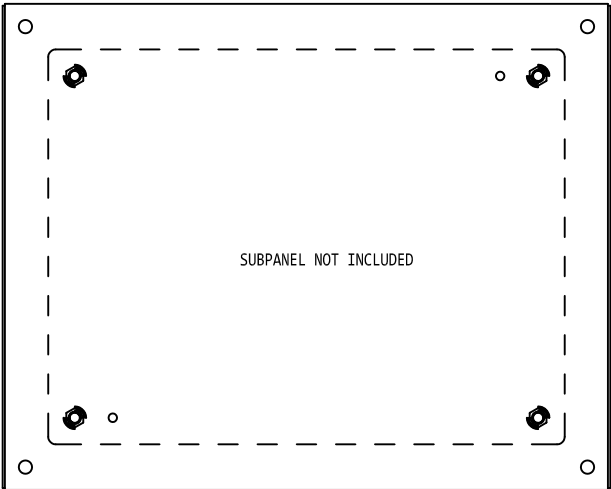


RIGHT SIDE VIEW



SUBPANEL FRONT VIEW

SAGINAW CONTROL & ENGINEERING
SCE-20EL1612LP



EXTERNAL REAR VIEW



DULUTH ENERGY
SYSTEMS

ONE LAKE PLACE DRIVE
DULUTH, MN 55802-1189

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HMI PANEL LAYOUT BURNER MANAGEMENT SYSTEM DULUTH STEAM BOILER #2	JOB NO. : 424997		DRAWN BY : DJN		APPROVED : M. THOMAS	
	HMI PANEL		DATE		DATE	
	REV		DESCRIPTION		DESCRIPTION	
	A		BURNER PANEL UPGRADE		BURNER PANEL UPGRADE	

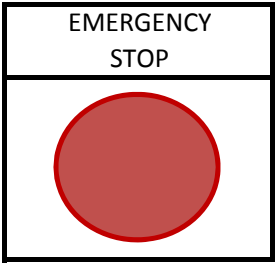
DWG. NO.	424997-1_11
SHEET NO.	11

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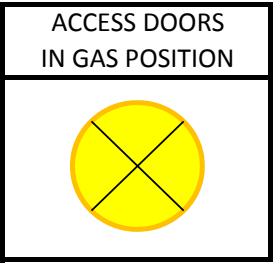


Building on Promises Kept
mechanical • electrical • systems

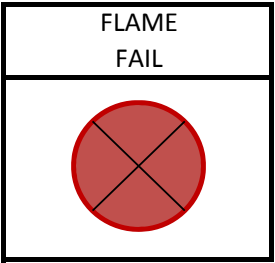
Main Panel Button Layout



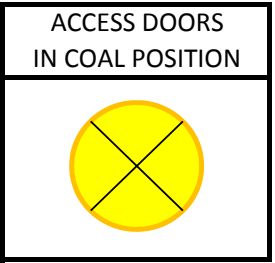
503ES-1



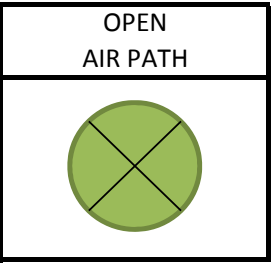
416PL



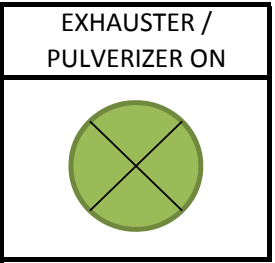
602PL



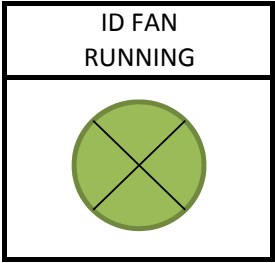
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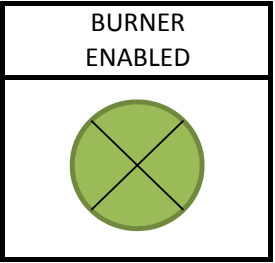
423PL



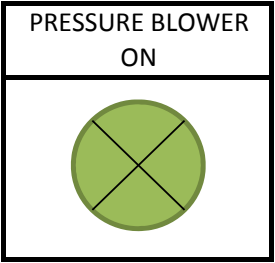
119PL



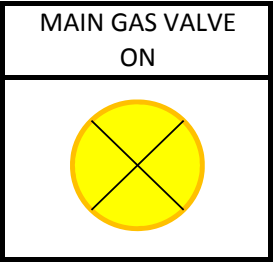
128PL



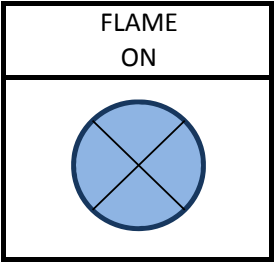
113PL



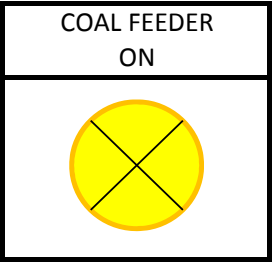
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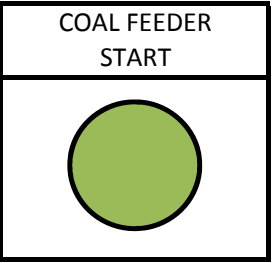
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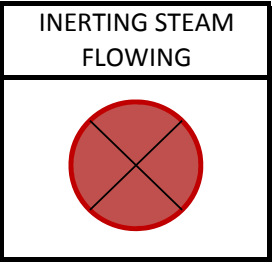
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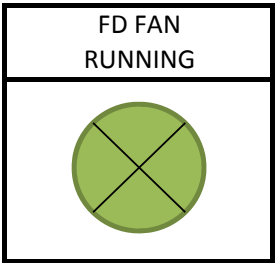
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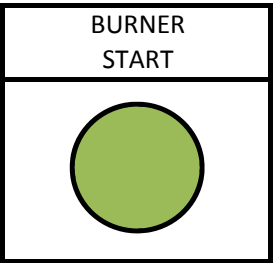
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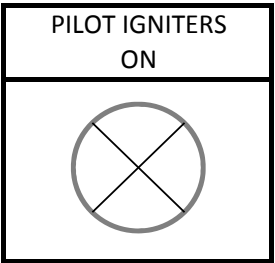
347PL



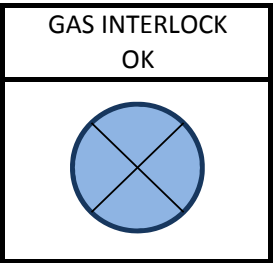
133PL



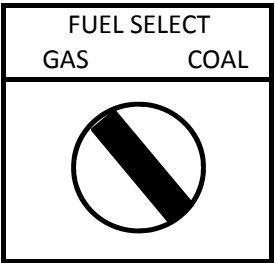
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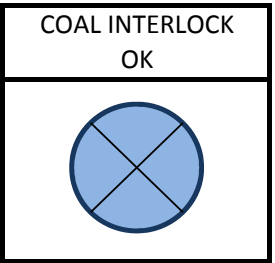
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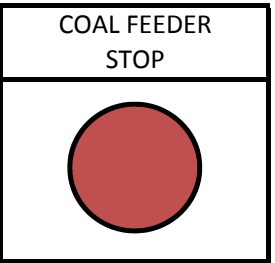
515PL



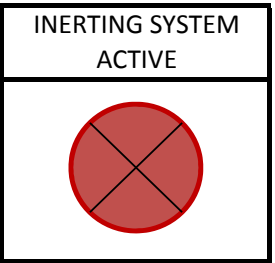
202SS



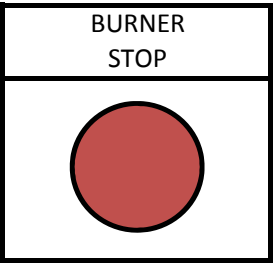
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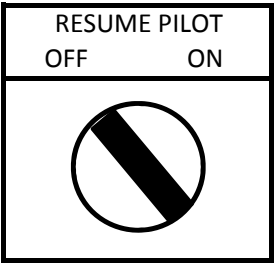
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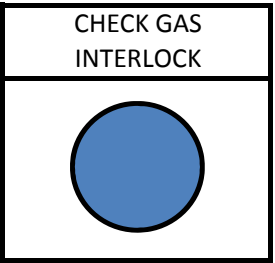
340PL



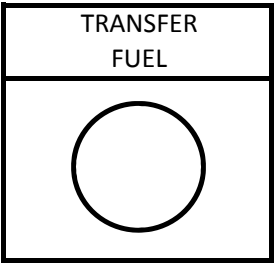
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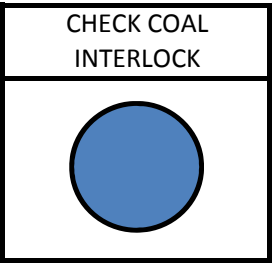
529SS



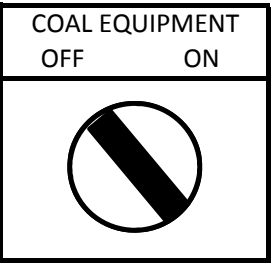
515PB



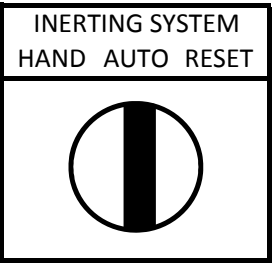
442PB



510PB

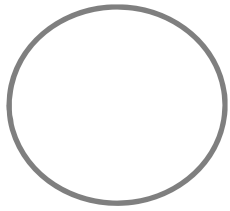


443SS

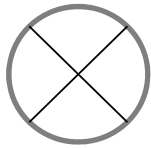


339SS

Sonalert



PILOT IGNITERS
ON



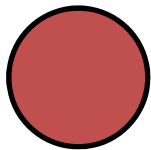
532PL

RESUME PILOT
OFF ON



531SS

BURNER
STOP

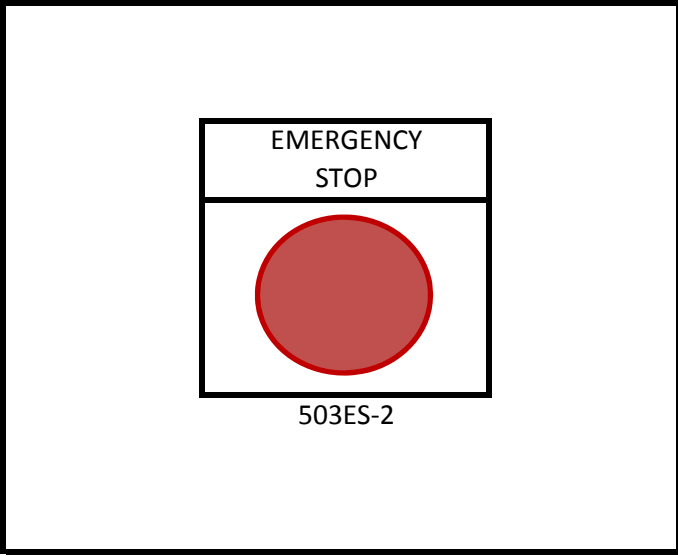


112PB-2

Panelview



Exit Door 1



Exit Door 2

