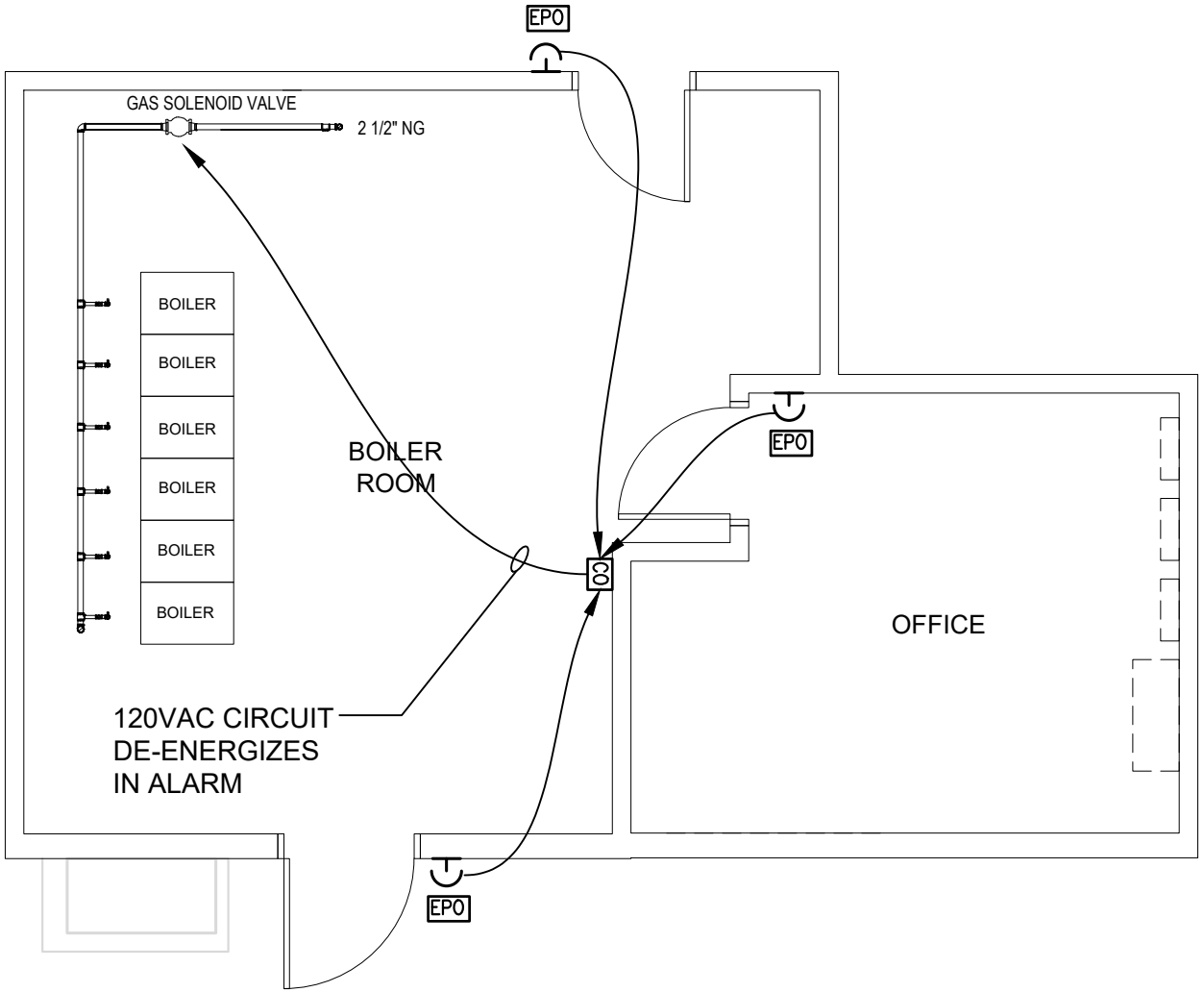
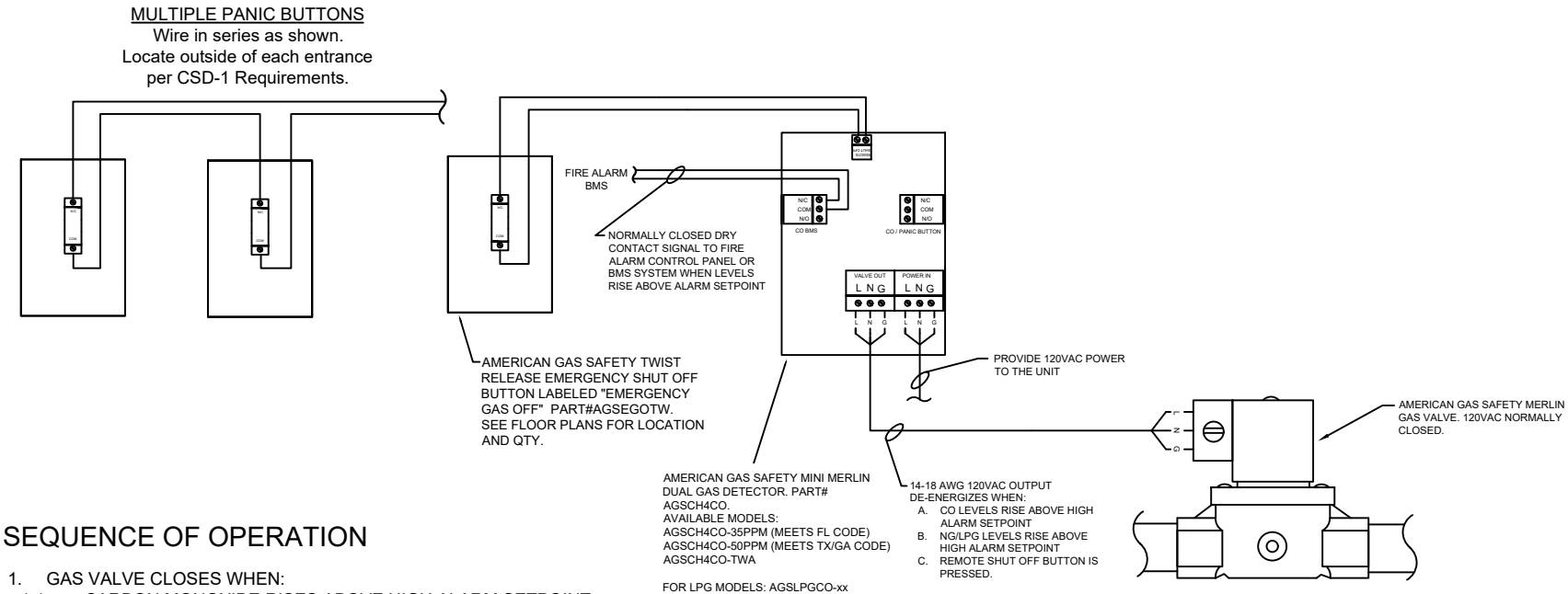
EMERGENCY GAS SHUTDOWN ROOM LAYOUT



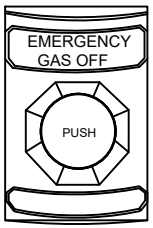
2 EXAMPLE ROOM LAYOUT
N.T.S.

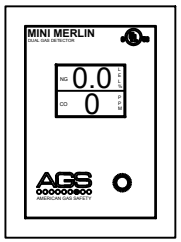
EMERGENCY GAS SHUTDOWN DETAIL

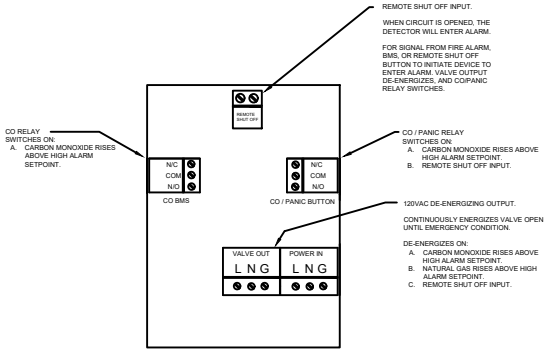


SEQUENCE OF OPERATION

1. GAS VALVE CLOSES WHEN:
   - 1.1. CARBON MONOXIDE RISES ABOVE HIGH ALARM SETPOINT.
   - 1.2. NG/LPG RISES ABOVE HIGH ALARM SETPOINT.
   - 1.3. REMOTE EMERGENCY SHUTOFF BUTTON IS PRESSED.
     - 1.3.1. PLACE REMOTE SHUTOFF BUTTONS OUTSIDE OF EACH ENTRANCE PER CSD-1 REQUIREMENTS.
2. SIGNAL TO FIRE ALARM OR BMS
   - 2.1. CO LEVELS RISE ABOVE HIGH ALARM SETPOINT





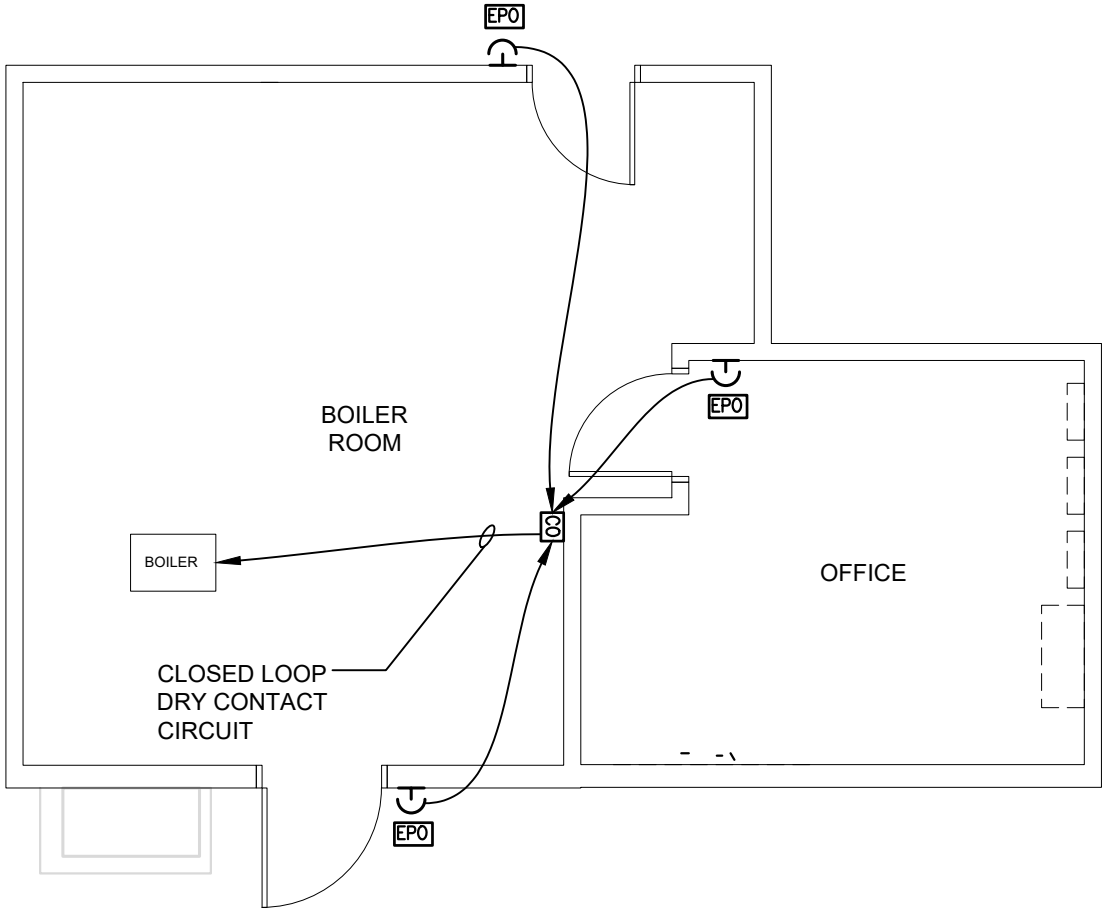


CIRCUIT BOARD OVERVIEW

(2) DETAIL - GAS MONITORING SYSTEM AND EMERGENCY GAS SHUTOFF

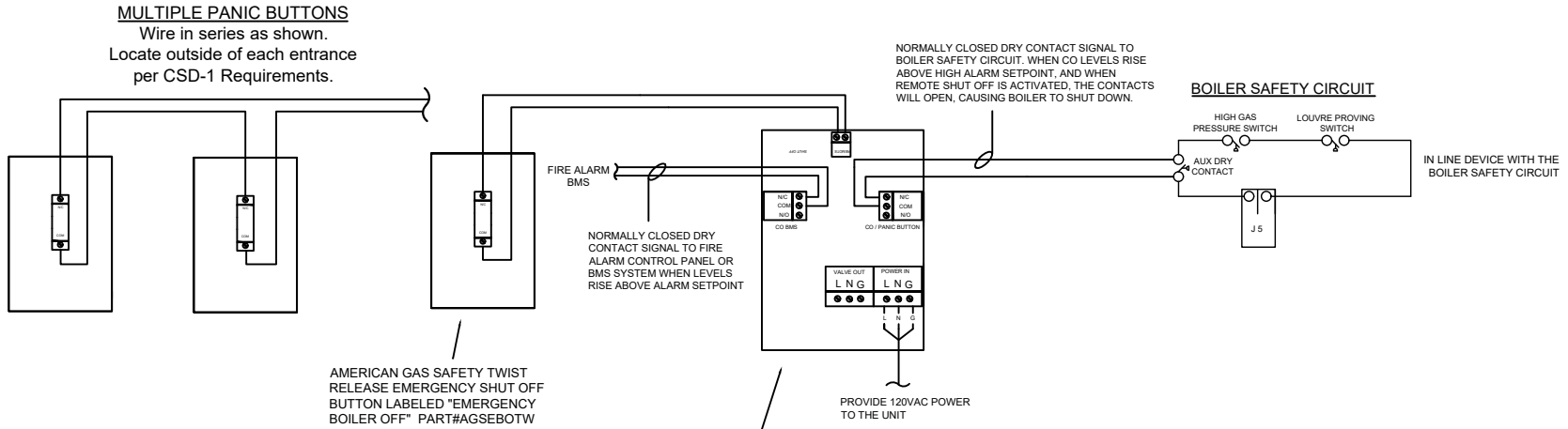
N.T.S.

BOILER SAFETY CIRCUIT SHUTDOWN LAYOUT - ONE BOILER



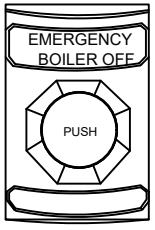
2 EXAMPLE ROOM LAYOUT
N.T.S.

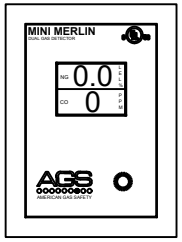
BOILER SAFETY CIRCUIT SHUTDOWN DETAIL - ONE BOILER

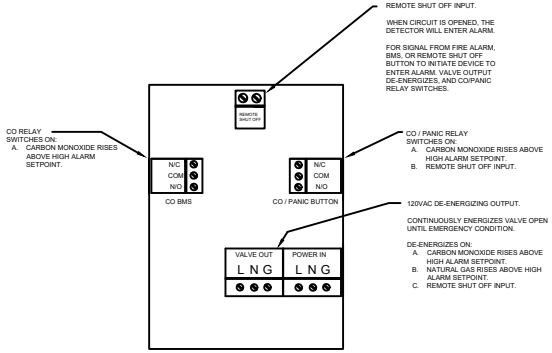


SEQUENCE OF OPERATION

1. BOILER SHUTS DOWN VIA SAFETY CIRCUIT WHEN
   - 1.1. CARBON MONOXIDE RISES ABOVE HIGH ALARM SETPOINT
   - 1.2. REMOTE EMERGENCY SHUTOFF BUTTON IS PRESSED.
     - 1.2.1. PLACE REMOTE SHUTOFF BUTTONS OUTSIDE OF EACH ENTRANCE PER CSD-1 REQUIREMENTS.
2. SIGNAL TO FIRE ALARM OR BMS
   - 2.1. CO LEVELS RISE ABOVE HIGH ALARM SETPOINT





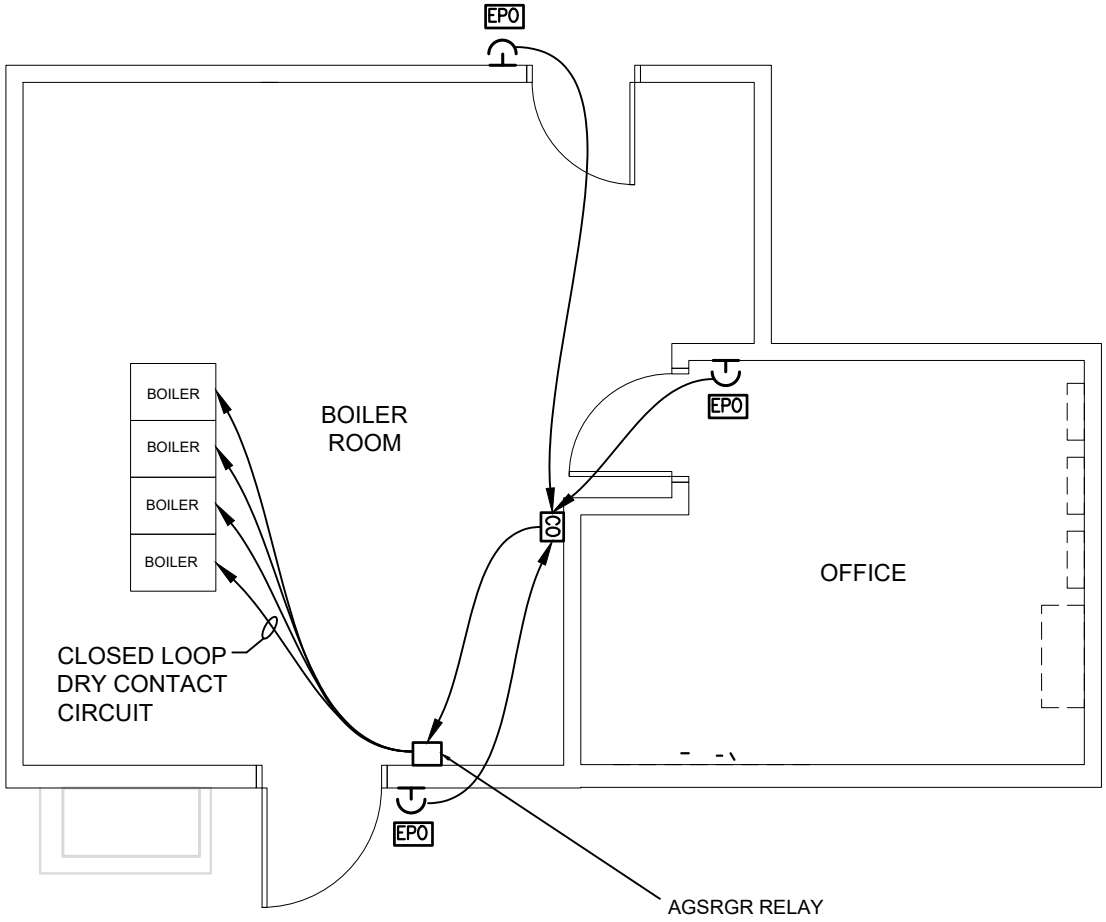


CIRCUIT BOARD OVERVIEW

2 DETAIL - GAS MONITORING SYSTEM AND SINGLE BOILER SHUTOFF

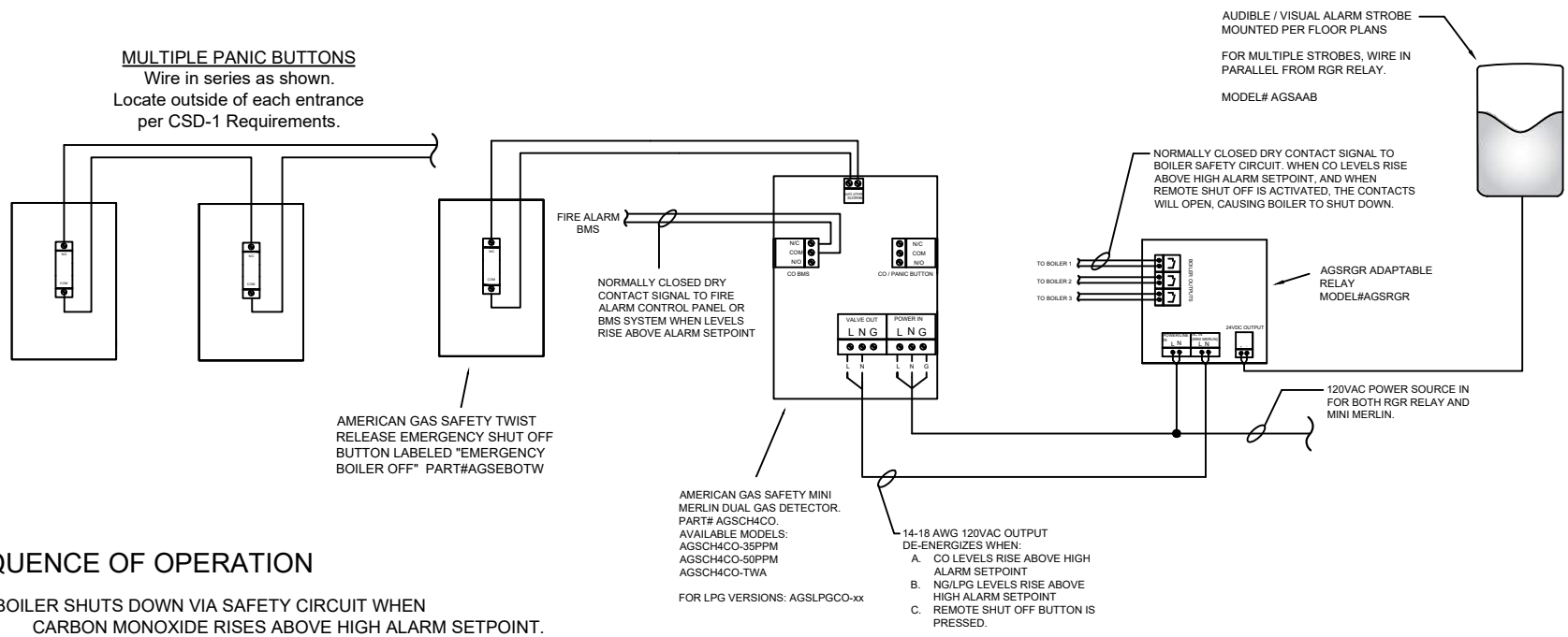
N.T.S.

BOILER SAFETY CIRCUIT SHUTDOWN DETAIL - MULTIPLE BOILERS



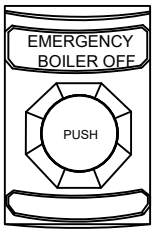
2 EXAMPLE ROOM LAYOUT
N.T.S.

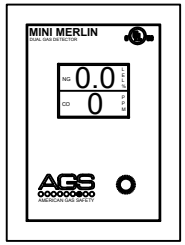
BOILER SAFETY CIRCUIT SHUTDOWN DETAIL - MULTIPLE BOILERS

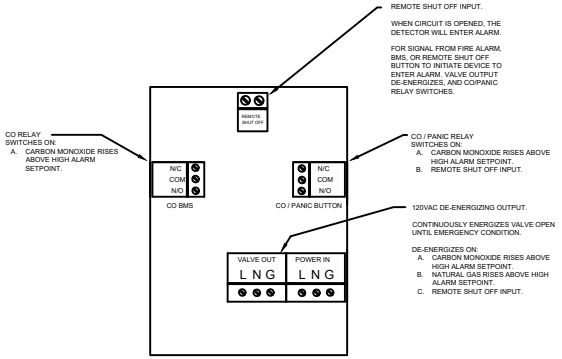


SEQUENCE OF OPERATION

1. BOILER SHUTS DOWN VIA SAFETY CIRCUIT WHEN
   - 1.1. CARBON MONOXIDE RISES ABOVE HIGH ALARM SETPOINT.
   - 1.2. NATURAL GAS / LPG RISES ABOVE HIGH ALARM SETPOINT
   - 1.3. REMOTE EMERGENCY SHUTOFF BUTTON IS PRESSED.
     - 1.3.1. PLACE REMOTE SHUTOFF BUTTONS OUTSIDE OF EACH ENTRANCE PER CSD-1 REQUIREMENTS.
2. SIGNAL TO FIRE ALARM OR BMS
   - 2.1. CO LEVELS RISE ABOVE HIGH ALARM SETPOINT





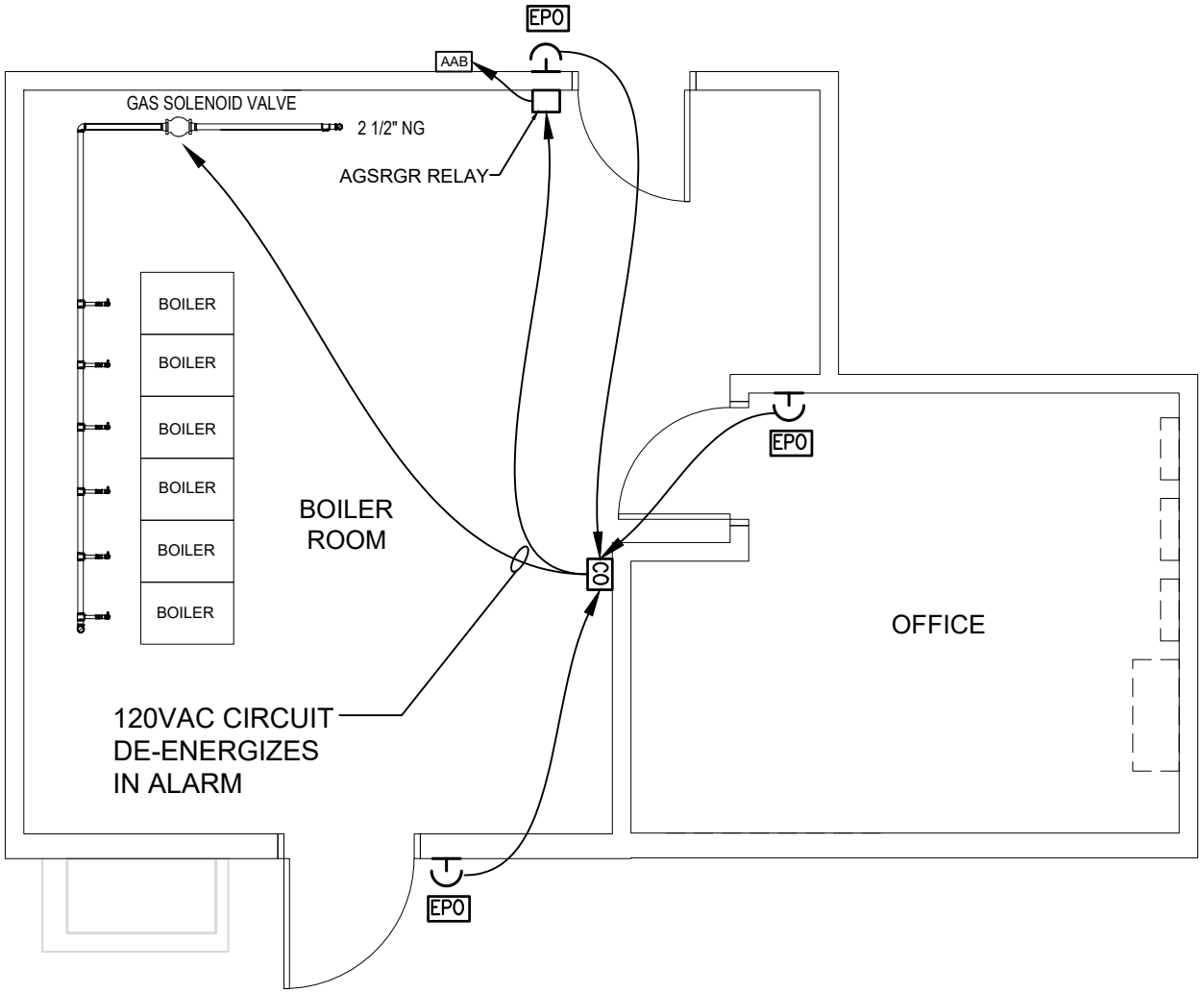


CIRCUIT BOARD OVERVIEW

2 DETAIL - GAS MONITORING SYSTEM AND MULTIPLE BOILER SHUTOFF

N.T.S.

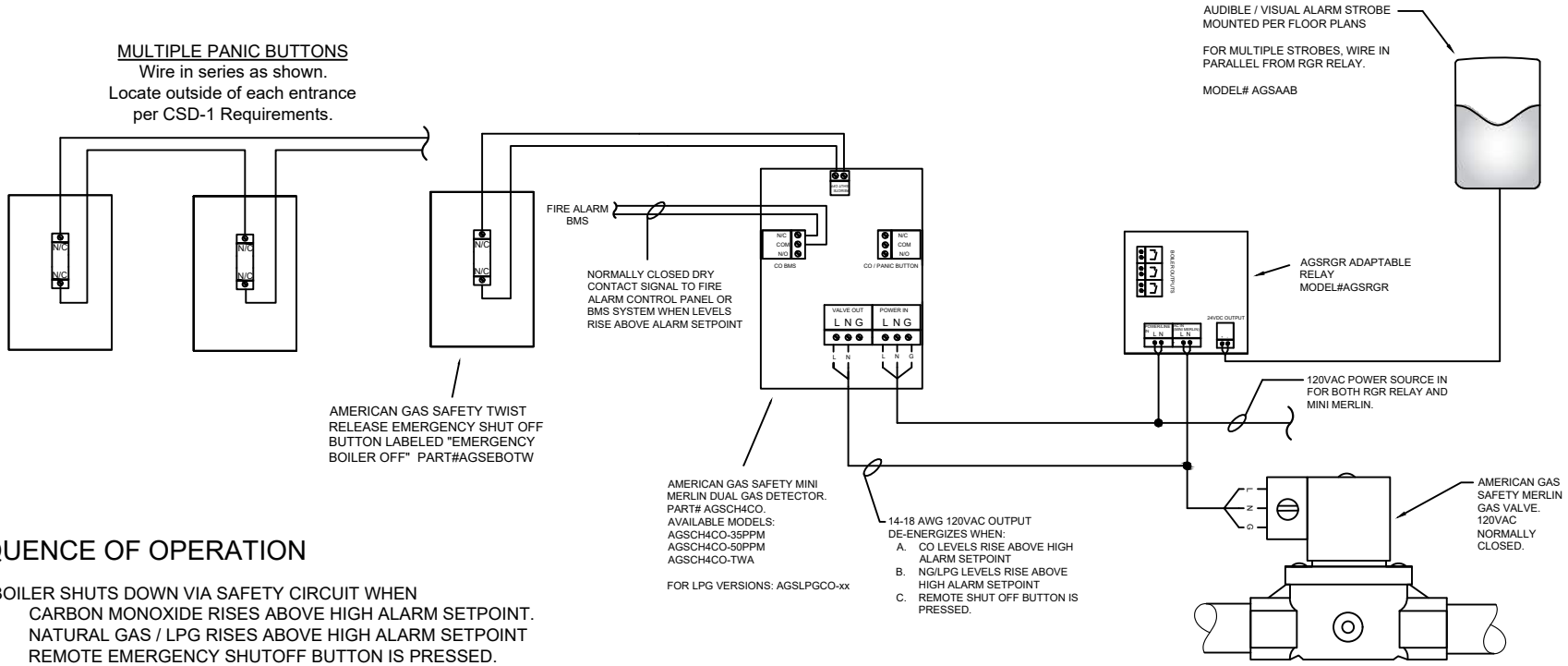
GAS VALVE & AGSAAB ROOM WITH AGSRGR



2 DETAIL - GAS MONITORING SYSTEM SOLENOID VALVE & AGSAAB

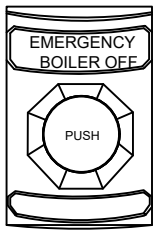
N.T.S.

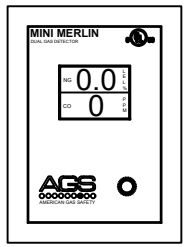
GAS VALVE & AGSAAB WITH AGSRGR

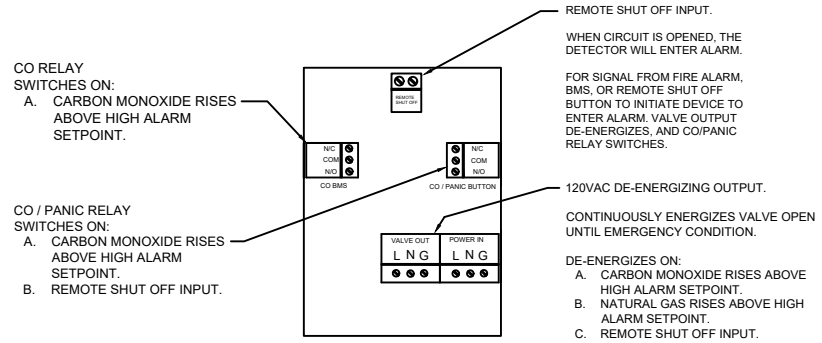


SEQUENCE OF OPERATION

1. BOILER SHUTS DOWN VIA SAFETY CIRCUIT WHEN
   - 1.1. CARBON MONOXIDE RISES ABOVE HIGH ALARM SETPOINT.
   - 1.2. NATURAL GAS / LPG RISES ABOVE HIGH ALARM SETPOINT
   - 1.3. REMOTE EMERGENCY SHUTOFF BUTTON IS PRESSED.
     - 1.3.1. PLACE REMOTE SHUTOFF BUTTONS OUTSIDE OF EACH ENTRANCE PER CSD-1 REQUIREMENTS.
2. SIGNAL TO FIRE ALARM OR BMS
   - 2.1. CO LEVELS RISE ABOVE HIGH ALARM SETPOINT





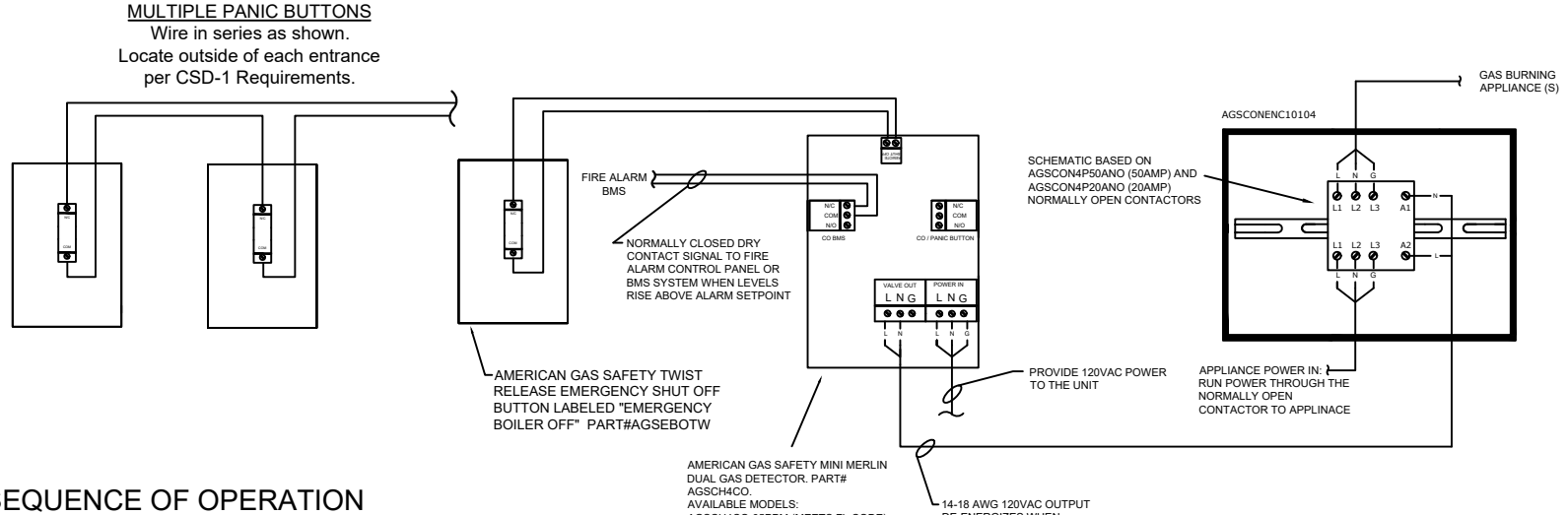


CIRCUIT BOARD OVERVIEW

(2) DETAIL - GAS MONITORING SYSTEM SOLENOID VALVE & AGSAAB

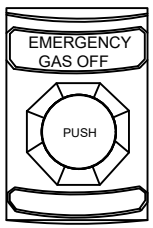
N.T.S.

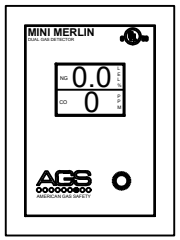
BOILER POWER SHUTDOWN DETAIL

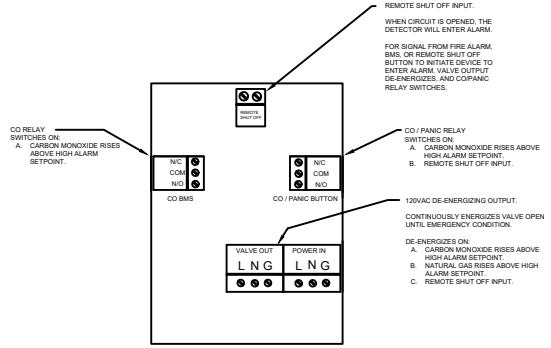


SEQUENCE OF OPERATION

1. BOILER POWER CUT OFF WHEN:
   - 1.1. CARBON MONOXIDE RISES ABOVE HIGH ALARM SETPOINT.
   - 1.2. NG/LPG RISES ABOVE HIGH ALARM SETPOINT.
   - 1.3. REMOTE EMERGENCY SHUTOFF BUTTON IS PRESSED.
     - 1.3.1. PLACE REMOTE SHUTOFF BUTTONS OUTSIDE OF EACH ENTRANCE PER CSD-1 REQUIREMENTS.
2. SIGNAL TO FIRE ALARM OR BMS
   - 2.1. CO LEVELS RISE ABOVE HIGH ALARM SETPOINT







CIRCUIT BOARD OVERVIEW

(2) DETAIL - GAS MONITORING SYSTEM BOILER POWER SHUT DOWN

N.T.S.