

# SALT LAKE COMMUNITY COLLEGE JORDAN AND REDWOOD CAMPUS BOILER CONTROLS



VAN BOERUM  
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CONSULTING ENGINEERS

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Original drawings remain the property of the Engineer and as such the Engineer retains total ownership and control. The design represented by these drawings are sold to the client for a one time use, unless otherwise agreed upon in writing by the Engineer.  
• Van Boerum & Frank Assoc., 2006

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M-701	REDWOOD CAMPUS CENTRAL PLANT STEAM BOILER CONTROL SCHEMATIC
M-702	JORDAN CAMPUS CENTRAL PLANT HOT WATER BOILER CONTROL SCHEMATIC

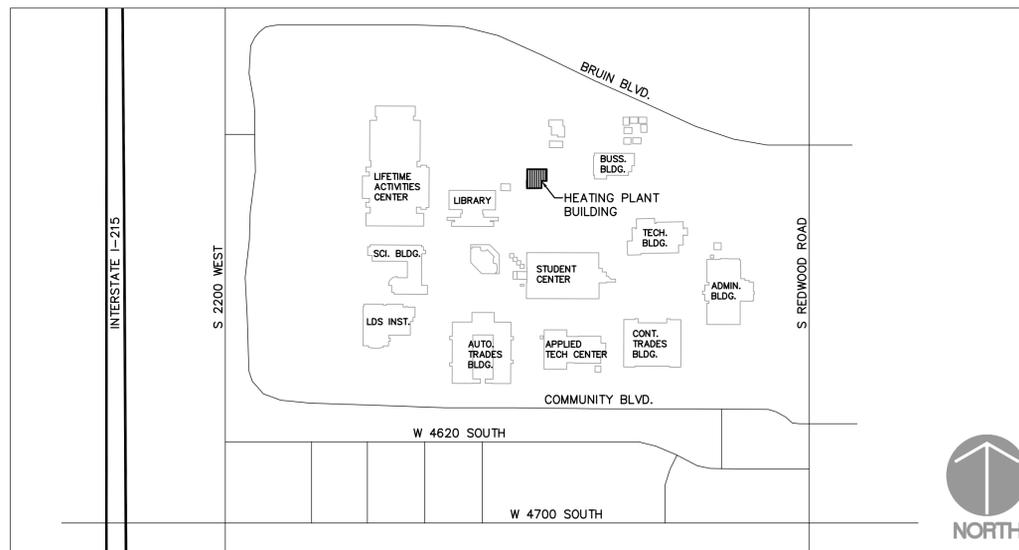


State of Utah—Department of Administrative Services

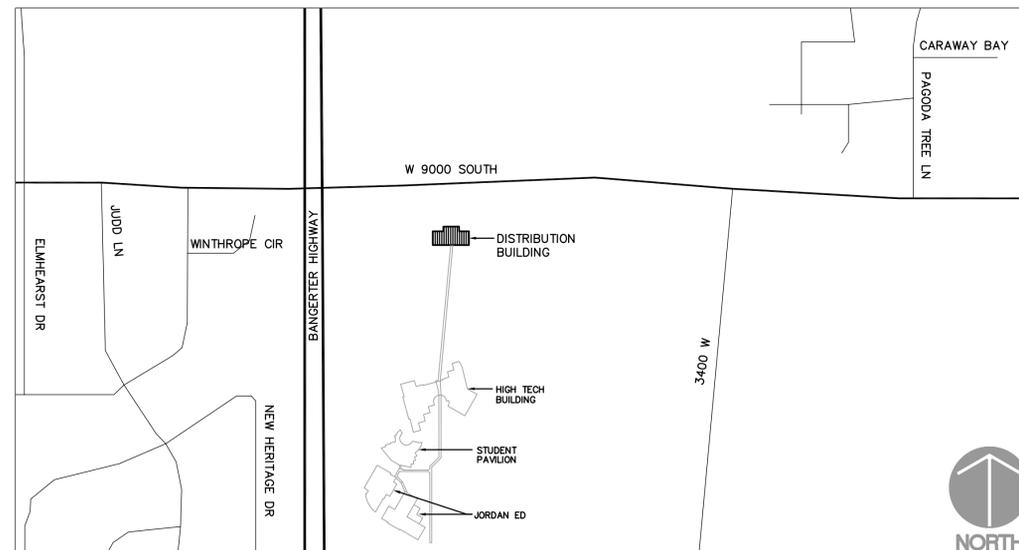
## DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018

# DFCM Project No. 06164660 CONSTRUCTION DRAWINGS



SLCC Redwood Campus Vicinity Map



SLCC Jordan Campus Vicinity Map

**SLCC Jordan and Redwood  
Campus Boiler Controls**  
Salt Lake Community College  
Salt Lake City, Utah

### REVISIONS

VBFA PROJECT #: 6273  
CHECKED BY: Nspencer  
DRAWN BY: Ejuarez  
CURRENT/BID DATE: 11/28/2006

### SHEET CONTENTS

COVER SHEET

**C-001**

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KEYED NOTES

- ① NEW EMERGENCY BOILER SHUTDOWN SWITCH. CONNECT TO ALL FIVE BOILERS. PROVIDE SIGN WITH 3/8" HIGH LETTERS: "EMERGENCY BOILER SHUTDOWN SWITCH." SWITCH TO BE PUSH-BUTTON TYPE, (3) TYPICAL.
- ② NEW EXHAUST GAS ANALYZER.
- ③ NEW FLUE GAS SAMPLING PROBE.
- ④ REPLACE EXISTING BOILER CONTROLS WITH NEW. SEE SHEET M-701, (4) TYPICAL.
- ⑤ NEW DTI. EXACT LOCATION AS DETERMINED BY OWNER.



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SHEET CONTENTS REDWOOD CAMPUS CENTRAL PLANT MECHANICAL EQUIPMENT PLAN

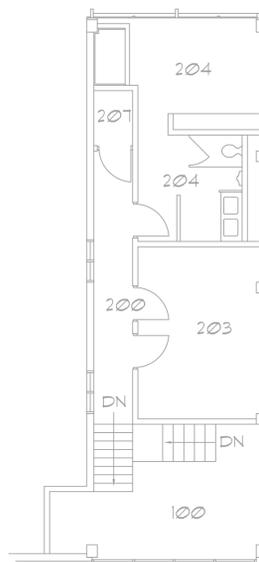
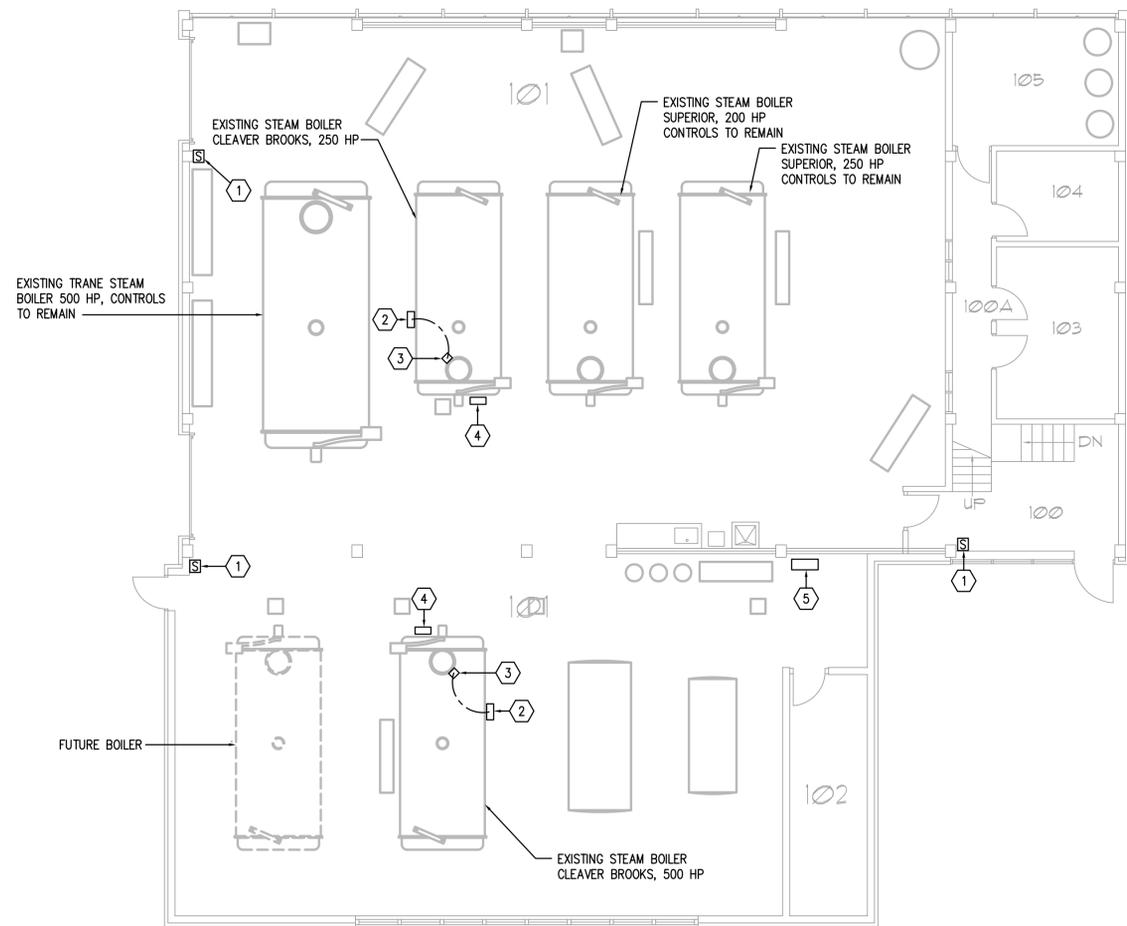
M-101

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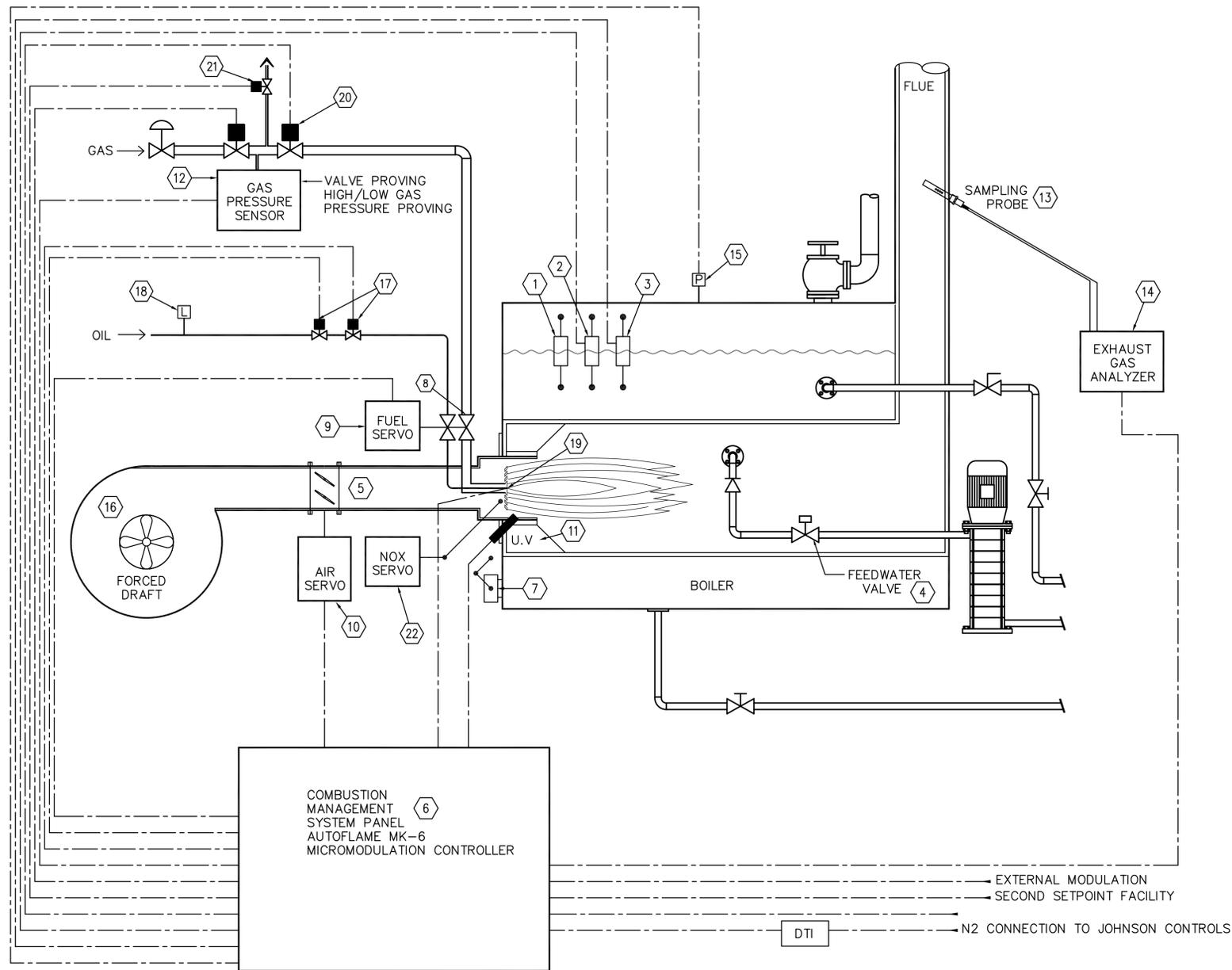


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- 1 EXISTING WATER LEVEL CONTROLLER TO REMAIN.
- 2 EXISTING LOW WATER CUTOFF TO REMAIN. CONNECT TO NEW CONTROLS.
- 3 EXISTING AUXILIARY LOW WATER CUTOFF (WITH MANUAL RESET) TO REMAIN.
- 4 EXISTING AUTO FEED WATER VALVE TO REMAIN.
- 5 EXISTING BURNER DAMPER TO REMAIN. DISCONNECT LINKAGE FROM EXISTING MODULATING MOTOR. CONNECT TO NEW SERVO.
- 6 EXISTING CLEAVER BROOKS PANEL BOX TO REMAIN. REMOVE CLEAVER BROOKS HAWK CONTROLS; REPLACE WITH NEW CONTROLS SPECIFIED.
- 7 REMOVE EXISTING MODULATING MOTOR AND LINKAGE TO BURNER DAMPER, GAS VALVE AND OIL VALVE.
- 8 REPLACE EXISTING OPERATING GAS VALVE WITH NEW GAS VALVE WITH SERVO.
- 9 REPLACE EXISTING OPERATING OIL VALVE WITH NEW OIL VALVE WITH SERVO.
- 10 NEW SERVO FOR BURNER DAMPER.
- 11 NEW UV SCANNER.
- 12 NEW GAS PRESSURE SENSOR.
- 13 NEW FLUE GAS SAMPLING PROBE. BASE BID FOR THE (2) CLEAVER BROOKS BOILERS. ALTERNATE NO. 1 FOR THE (2) SUPERIOR BOILERS.
- 14 NEW EXHAUST GAS ANALYZER. BASE BID FOR THE (2) CLEAVER BROOKS BOILERS. ALTERNATE NO. 1 FOR THE (2) SUPERIOR BOILERS.
- 15 NEW PRESSURE TRANSMITTER.
- 16 EXISTING BURNER FAN TO REMAIN.
- 17 CONNECT EXISTING OIL SAFETY SHUTOFF VALVES TO NEW CONTROLLER.
- 18 NEW LOW PRESSURE SAFETY SWITCH WITH RESET BUTTON.
- 19 EXISTING IGNITOR AND PILOT TO REMAIN. CONNECT TO NEW CONTROLLER.
- 20 EXISTING GAS SAFETY SHUTOFF VALVES. CONNECT TO NEW CONTROLLER.
- 21 EXISTING VENT VALVE. CONNECT TO NEW CONTROLLER.
- 22 LOW NOX SERVO ON 500 HP CLEAVER BROOKS ONLY.



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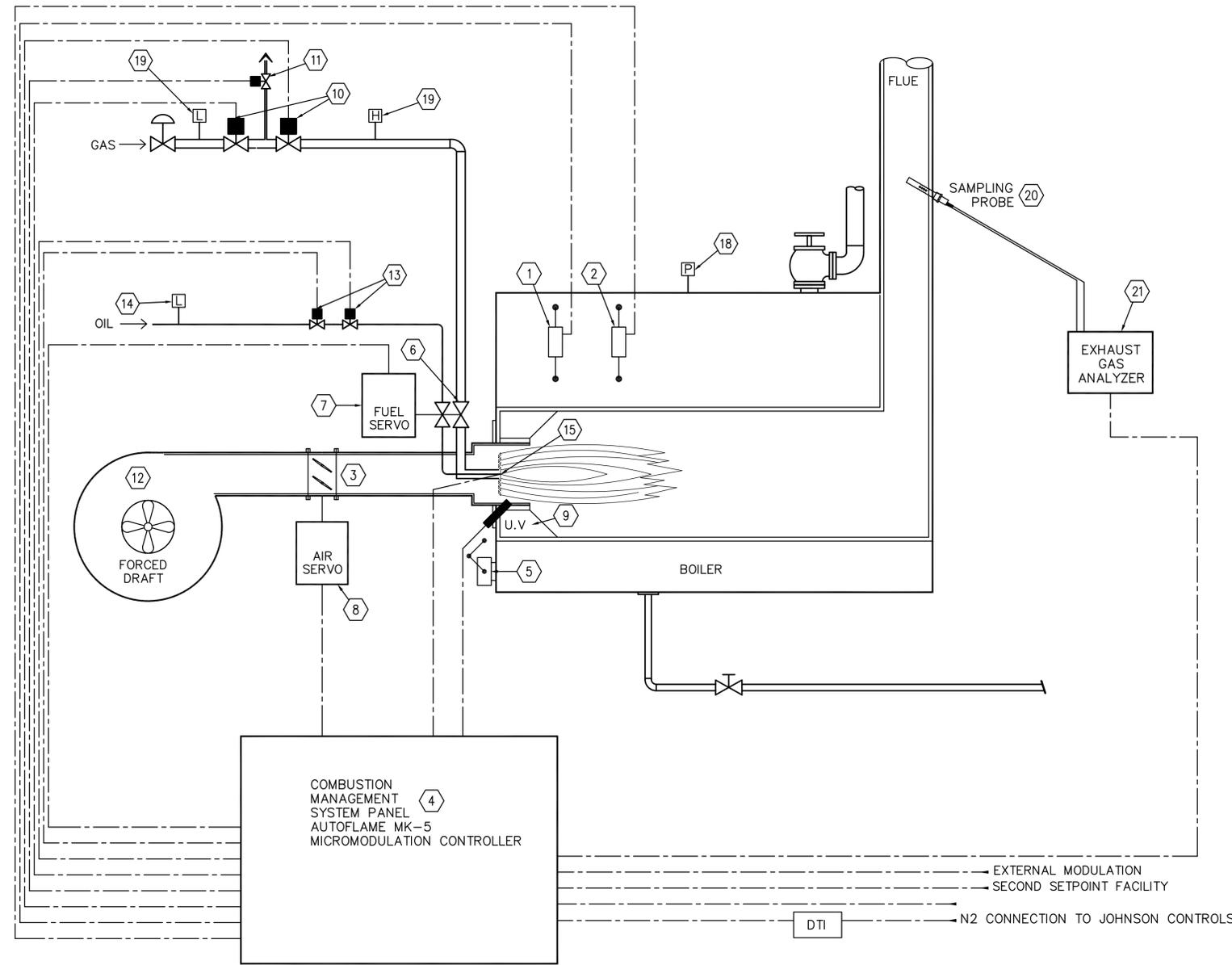
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- 1 EXISTING LOW WATER CUTOFF TO REMAIN. CONNECT TO NEW CONTROLLER.
- 2 EXISTING AUXILIARY LOW WATER CUTOFF TO REMAIN. CONNECT TO NEW CONTROLLER.
- 3 EXISTING BURNER DAMPER TO REMAIN. DISCONNECT LINKAGE FROM EXISTING MODULATING MOTOR. CONNECT TO NEW SERVO.
- 4 EXISTING WEBSTER PANEL BOX TO REMAIN. REMOVE HONEYWELL CONTROLS, REPLACE WITH CONTROLS SPECIFIED.
- 5 REMOVE EXISTING MODULATING MOTOR AND LINKAGE TO BURNER DAMPER, GAS VALVE AND OIL VALVE.
- 6 REPLACE EXISTING OPERATING GAS VALVE WITH NEW GAS VALVE WITH SERVO.
- 7 REPLACE EXISTING OPERATING OIL VALVE WITH NEW OIL VALVE WITH SERVO.
- 8 NEW SERVO FOR BURNER DAMPER.
- 9 NEW UV SCANNER.
- 10 EXISTING GAS SAFETY SHUTOFF VALVES TO REMAIN. CONNECT TO NEW CONTROLLER.
- 11 EXISTING VENT VALVE TO REMAIN. CONNECT TO NEW CONTROLLER.
- 12 EXISTING BURNER FAN TO REMAIN.
- 13 CONNECT EXISTING OIL SAFETY SHUTOFF VALVES TO NEW CONTROLLER.
- 14 NEW LOW PRESSURE SAFETY SWITCH WITH RESET BUTTON.
- 15 EXISTING IGNITOR AND PILOT TO REMAIN. CONNECT TO NEW CONTROLLER.
- 16 EXISTING GAS SAFETY SHUTOFF VALVES. CONNECT TO NEW CONTROLLER.
- 17 EXISTING VENT VALVE. CONNECT TO NEW CONTROLLER.
- 18 NEW TEMPERATURE TRANSMITTER.
- 19 NEW HIGH AND LOW PRESSURE SWITCHES WITH RESET BUTTON.
- 20 NEW FLUE GAS SAMPLING PROBE.
- 21 NEW EXHAUST GAS ANALYZER.



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 HOT WATER BOILER  
 CONTROL SCHEMATIC**