

Revision	Description	Date
5		
4		
3	ISSUED FOR TENDER (STAMPED)	2018-05-24
2	ISSUED FOR TENDER	2018-05-04
1	ISSUED FOR 90% REVIEW	2018-04-10
0	ISSUED FOR 66% REVIEW	2018-03-09

Client client

**PUBLIC WORKS &
GOVERNMENT SERVICES**

1800-11th AVENUE, SUITE 201
REGINA, SASKATCHEWAN. S4P 0H8

Project Project
**CORRECTIONAL SERVICE CANADA
SASKATCHEWAN PENITENTIARY
PRINCE ALBERT, SK**

**BOILER CONTROL
REPLACEMENT**

Designed by Conçu par

MAH

Drawn by Dessiné par

JF

Approved by Approuvé par

RLG

PWGSC Project Manager Administrateur de Projets TPWSC

SHERRI KOBELSKI

Drawing title Titre du dessin

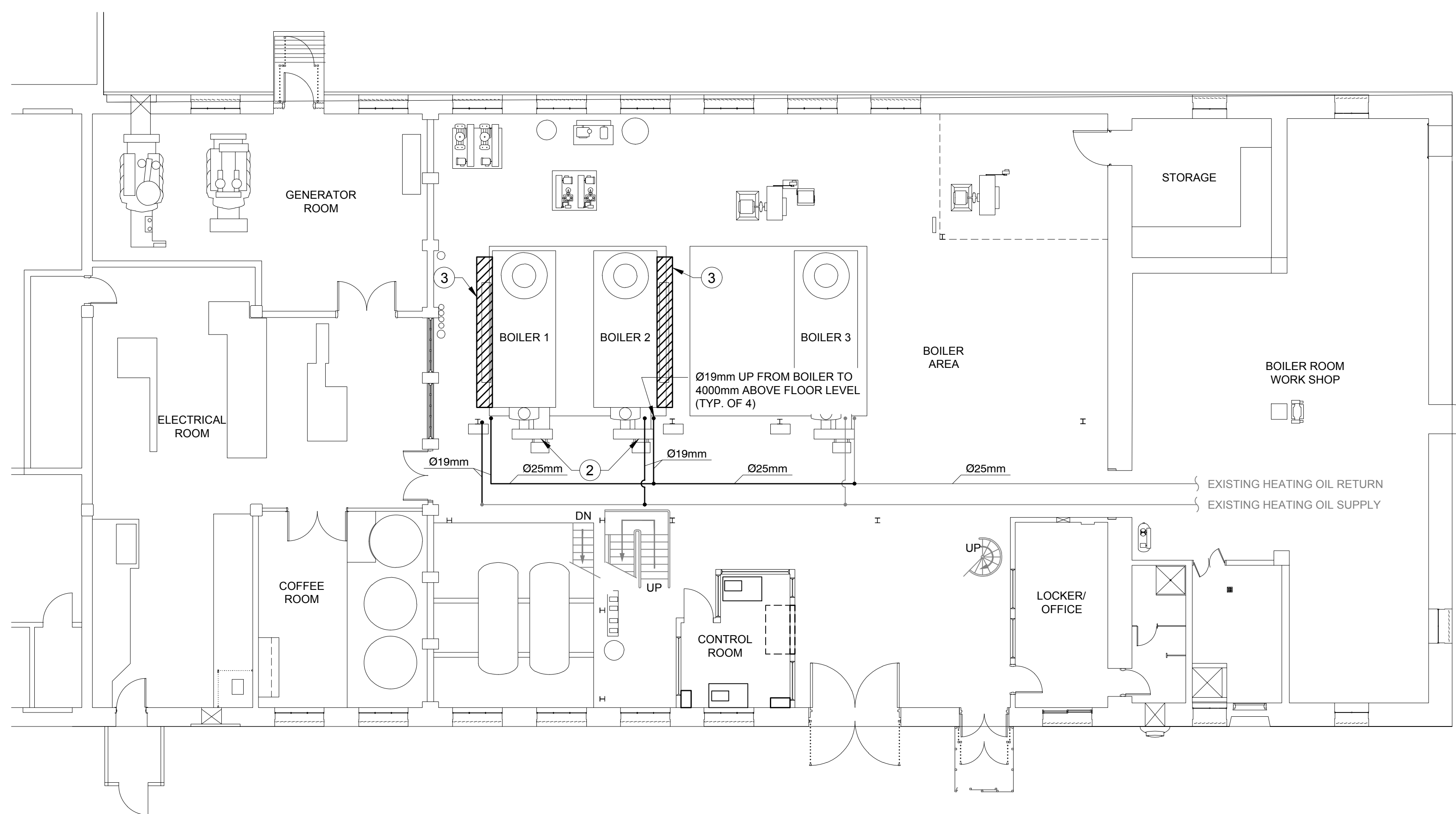
**BOILER ROOM -
MECHANICAL PLAN**

Project no./No. du projet Drawing no./No. du dessin Revision no.

R.079836.001

M101
OF 8

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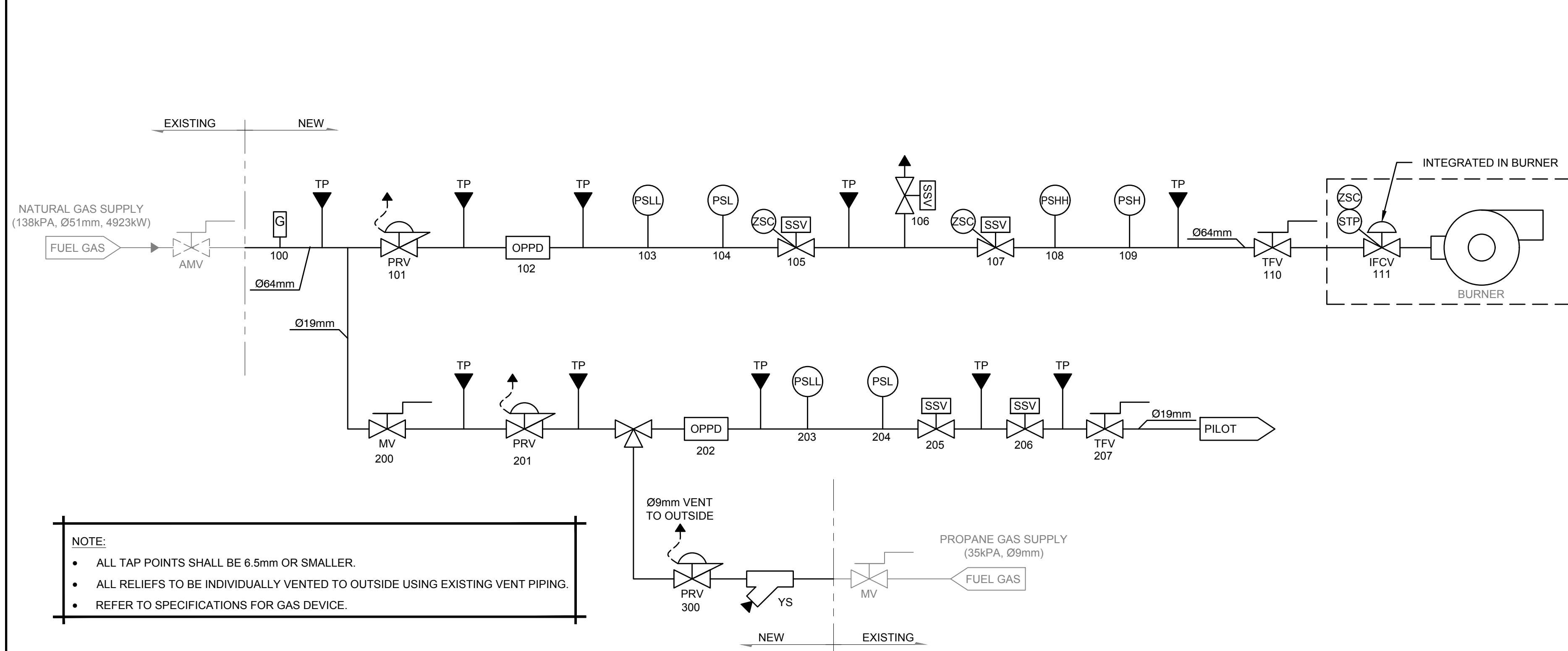


**1
BOILER ROOM
MECHANICAL PLAN**

SCALE: 1:100

ITEM	SYMBOL	REMARKS	ITEM	SYMBOL	REMARKS
DOMESTIC SANITARY VENTING LINE	---		DEVICE - OIL METER	OM	
NEW GAS/OIL PIPE	---		LOW PRESSURE SAFETY DEVICE (CUT-OFF)	PSL	GAS OR OIL
EXISTING GAS/OIL PIPE	---		LOW PRESSURE SAFETY DEVICE (ALARM)	PSL	GAS OR OIL
FITTING - PRESSURE REDUCING VALVE	PRV		HIGH PRESSURE SAFETY DEVICE (CUT-OFF)	PSH	GAS OR OIL
PIPE FITTING - BALL VALVE (NORMALLY OPEN)	BSV		HIGH PRESSURE SAFETY DEVICE (ALARM)	PSH	GAS OR OIL
FITTING - GATE/GLOBE VALVE	GV		SAFETY SHUT-OFF VALVE	SSV	
FITTING - 3-WAY BALANCING VALVE	BV		SAFETY SHUT-OFF VALVE WITH PROOF OF CLOSURE SWITCH	ZSC SSV	
FITTING - CHECK VALVE	CV		SAFETY VENT VALVE	SSV	
DEVICE - OIL FLOW METER	OFM		INPUT FLOW CONTROL VALVE WITH MECHANICAL STOP AND LOW FIRE START SWITCH	ZSC STP IFCV	
PIPE FITTING - MODULATING OIL VALVE	MOV		MANUAL SHUT-OFF VALVE	MV	
FITTING - MOTORIZED OIL VALVE	MOV		TEST FIRING VALVE	TFV	
FUEL GAS	FUEL GAS		PRESSURE TEST POINT	PTP	
PILOT BURNER	PILOT		DEVICE - PRESSURE GAUGE	PG	
APPLIANCE MANUAL SHUT-OFF VALVE	AMV		DEVICE - GAS FLOW METER	GFM	
FUEL FILTER	YS		ANNOTATION, SIZE (WIDTH x DEPTH OR 00mm DIAMETER)	WxD	
PRESSURE REGULATOR	PRV				
OVERPRESSURE PROTECTION DEVICE	OPPD				
FITTING - 3-WAY VALVE	3V				
DEVICE - IN-LINE FILTER	IFL				

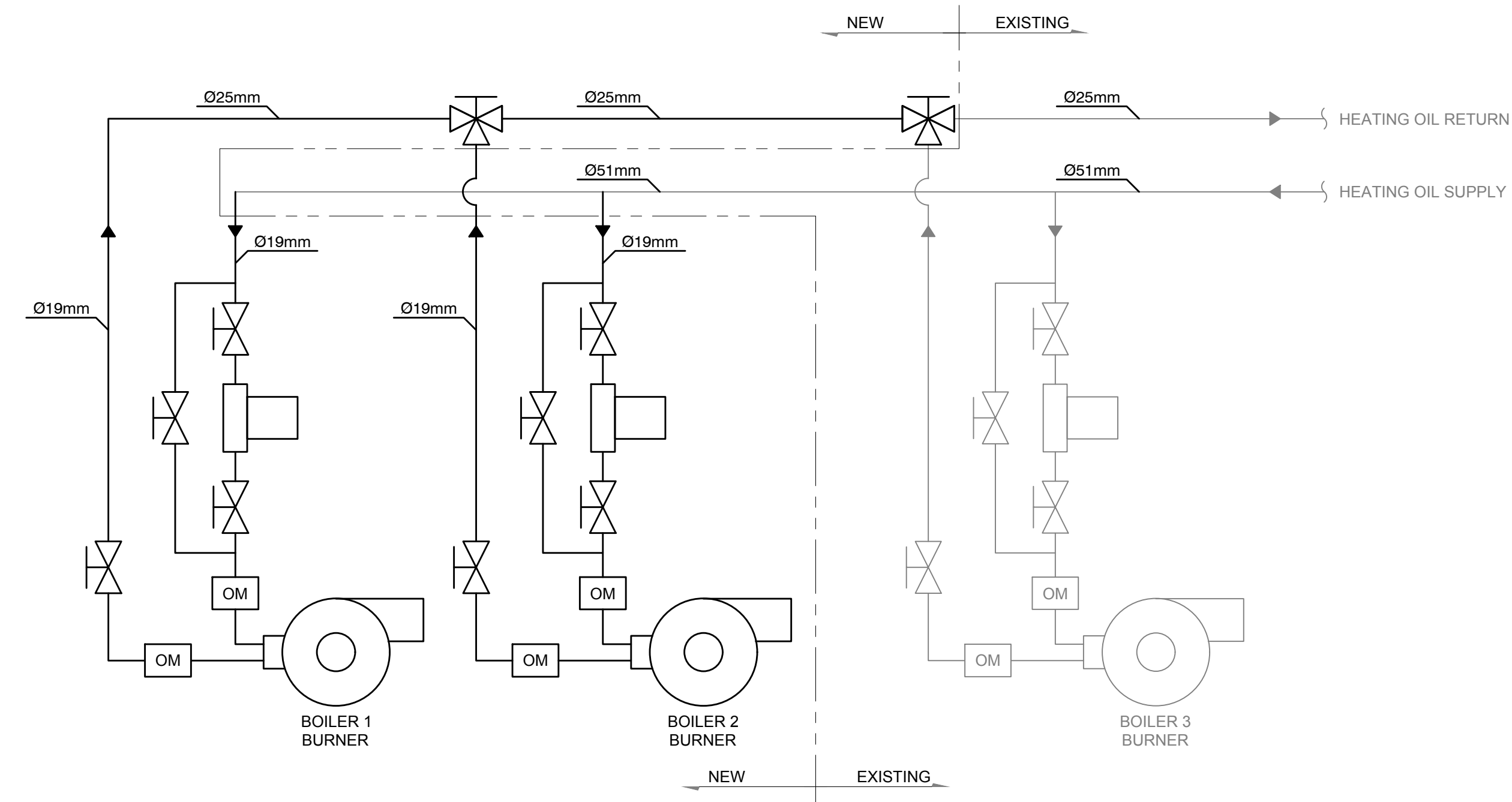
- CONSTRUCTION NOTES:
- WORK SHALL BE STAGED TO MINIMIZE BOILER DOWNTIME. REFER TO STAGING PLAN IN SPECIFICATIONS.
 - SUPPLY AND INSTALL NEW BURNERS FOR BOILERS 1 AND 2. MODIFY THE FRONT WALL REFRACTORY AND MOUNTING PLATE ON EACH BOILER TO ACCOMMODATE THE NEW BURNERS. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH SPECIFICATIONS.
 - SUPPLY AND INSTALL NEW OIL AND GAS TRAINS AS SHOWN. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH SPECIFICATIONS.



- NOTE:
- ALL TAP POINTS SHALL BE 6.5mm OR SMALLER.
 - ALL RELIEFS TO BE INDIVIDUALLY VENTED TO OUTSIDE USING EXISTING VENT PIPING.
 - REFER TO SPECIFICATIONS FOR GAS DEVICE.

**2
GAS TRAIN SCHEMATIC**

SCALE: N.T.S.



**3
NO. 2 HEATING OIL PIPING SCHEMATIC**

SCALE: N.T.S.

- NOTES:
- SOLENOID VALVES, HIGH AND LOW PRESSURE SENSOR AND OIL PUMP PROVIDED WITH BURNER PACKAGE.
 - SUSPEND ALL NEW OIL PIPING FROM UNDERSIDE OF CATWALK IN BOILER ROOM (APPROXIMATELY 4000mm ABOVE FINISHED FLOOR)