

PRESSURE REGULATING VALVE SCHEDULE

DESIG	LOCATION	FLUID	REQUIRED CAPACITY	MINIMUM FLOW WIDE OPEN VALVE	PRESSURE (PSIG)		REMARKS
					IN	OUT	
PRV-4104	BOILER No 1	GAS IGNITOR	500 SCFH	-	10	2	SEE GENERAL NOTES
PRV-4105	BOILER No 1	LIQUEFIED PETROLEUM GAS	120 SCFH	-	10	8	SEE GENERAL NOTES
PRV-4113	BOILER No 1	NATURAL GAS	25,000 SCFH	-	10	5	SEE GENERAL NOTES
PRV-4204	BOILER No 2	GAS IGNITOR	300 SCFH	-	10	2	SEE GENERAL NOTES
PRV-4205	BOILER No 2	LIQUEFIED PETROLEUM GAS	120 SCFH	-	10	8	SEE GENERAL NOTES
PRV-4310	BOILER No 3	NATURAL GAS	25,000 SCFH	-	10	5	SEE GENERAL NOTES
PRV-4311	BOILER No 3	LIQUEFIED PETROLEUM GAS	120 SCFH	-	10	8	SEE GENERAL NOTES
PRV-4504	SUPPLY MAIN	NATURAL GAS	78,000 SCFH	-	15	10	SEE GENERAL NOTES
PRV-4810	HEATING SUPPLY	NATURAL GAS	400 SCFH	-	10	0.5	SEE GENERAL NOTES
PRV-9802	SHOP AIR OUTLET	COMPRESSED AIR	-	-	125	VARIES	SEE GENERAL NOTES
PRV-9803	SHOP AIR OUTLET	COMPRESSED AIR	-	-	125	VARIES	SEE GENERAL NOTES

STEAM V-CONE FLOWMETER SCHEDULE

DESIG	LOCATION	TEMP (F)	PRESSURE (PSIG)	FLOW RANGE (GPH)	MINIMUM ACCURACY (%)	MAX DIFFERENTIAL PRESSURE (PSIG)	NOMINAL PIPE SIZE (INCH)
FE-8101	BOILER No 1	338	100	2,100 - 21,000	5.0	N/A	8
FE-8201	BOILER No 2	336	100	2,100 - 21,000	5.0	N/A	8
FE-8301	BOILER No 3	336	100	2,100 - 21,000	5.0	N/A	8
FE-8804	CAMPUS SUPPLY	338	100	4,000 - 40,000	5.0	N/A	8
FE-9805	DA-1 SUPPLY	338	100	415 - 6,300	5.0	N/A	3
FE-9806	HEATING SUPPLY	338	100	100 - 2,100	5.0	N/A	1 1/2

BOILER FEED WATER V-CONE FLOWMETER SCHEDULE

DESIG	LOCATION	TEMP (F)	PRESSURE (PSIG)	FLOW RANGE (GPH)	MINIMUM ACCURACY (%)	MAX DIFFERENTIAL PRESSURE (PSIG)	NOMINAL PIPE SIZE (INCH)
FE-3106	BOILER No 1	250	180	2,300 - 23,000	5.0	N/A	2
FE-3206	BOILER No 2	250	180	2,300 - 23,000	5.0	N/A	2
FE-3306	BOILER No 3	250	180	2,300 - 23,000	5.0	N/A	2
FE-3805	PRIMARY HEADER	230	180	2,300 - 70,000	5.0	N/A	3
FE-3808	AUXILIARY HEADER	230	180	2,300 - 70,000	5.0	N/A	3

STEAM PRESSURE REGULATING VALVE SCHEDULE

DESIG	LOCATION	REQUIRED CAPACITY	MINIMUM FLOW WIDE OPEN VALVE	PRESSURE (PSIG)		REMARKS
				IN	OUT	
PRV-1801	REDUCING STATION	2,400	1,470	100	9	SEE GENERAL NOTES
PRV-1802	REDUCING STATION	2,400	2,040	100	7	SEE GENERAL NOTES
PRV-1803	REDUCING STATION	4,700	4,700	100	5	SEE GENERAL NOTES
PRV-1804	REDUCING STATION	2,540	2,040	100	15	SEE GENERAL NOTES

PRESSURE SAFETY VALVE SCHEDULE

VALVE NOMENCLATURE	DESIG	LOCATION	SERVICE	TEMP (F)	MINIMUM CAPACITY	SET PRESSURE (PSIG)	REMARKS
LRVE	PSV-3110	ECONOMIZER EG-1	BOILER FEED WATER	250	1 GPM	275	STAINLESS STEEL TRIM
LRVE	PSV-3210	ECONOMIZER EG-2	BOILER FEED WATER	250	1 GPM	275	STAINLESS STEEL TRIM
LRVE	PSV-3310	ECONOMIZER EG-3	BOILER FEED WATER	250	1 GPM	275	STAINLESS STEEL TRIM
LRVE	PSV-3402	GRAN-1	SLURRY/WATER	250	500 GPH	20	STAINLESS STEEL TRIM
LRVE	PSV-5507	FUEL OIL PUMP POP-1	FUEL OIL	40 - 70	1 GPM	135	STAINLESS STEEL TRIM
LRVE	PSV-5508	FUEL OIL PUMP POP-2	FUEL OIL	40 - 70	1 GPM	135	STAINLESS STEEL TRIM
LRVE	PSV-5509	FUEL OIL PUMP POP-3	FUEL OIL	40 - 70	1 GPM	135	STAINLESS STEEL TRIM
LRVE	PSV-5510	FUEL OIL PUMP POP-4	FUEL OIL	40 - 70	1 GPM	135	STAINLESS STEEL TRIM
LRVE	PSV-5104	BOILER No 1	STEAM	350	1 PPH	135	STAINLESS STEEL TRIM
LRVE	PSV-6105	BOILER No 1	STEAM	361	1 PPH	140	STAINLESS STEEL TRIM
LRVE	PSV-6204	BOILER No 2	STEAM	358	1 PPH	135	STAINLESS STEEL TRIM
LRVE	PSV-6303	BOILER No 2	STEAM	351	1 PPH	140	STAINLESS STEEL TRIM
LRVE	PSV-6304	BOILER No 3	STEAM	358	1 PPH	135	STAINLESS STEEL TRIM
LRVE	PSV-6305	BOILER No 3	STEAM	361	1 PPH	140	STAINLESS STEEL TRIM
LRVE	PSV-6812	REDUCING STATION	STEAM	338	5-210 GPH	100	STAINLESS STEEL TRIM
LRVE	PSV-6813	REDUCING STATION	STEAM	336	5-210 GPH	100	STAINLESS STEEL TRIM
LRVE	PSV-6814	DEGENERATOR DA-1	STEAM	274	1 GPH	100	STAINLESS STEEL TRIM
LRVE	PSV-5102	BOILER No 1	ATOMIZING AIR	-	1 SCFM	5	STAINLESS STEEL TRIM
LRVE	PSV-8202	BOILER No 2	ATOMIZING AIR	-	1 SCFM	5	STAINLESS STEEL TRIM
LRVE	PSV-8302	BOILER No 3	ATOMIZING AIR	-	1 SCFM	5	STAINLESS STEEL TRIM
LRVE	PSV-8804	AIR COMPRESSOR	COMPRESSED AIR	-	1 SCFM	5	STAINLESS STEEL TRIM

NATURAL GAS THERMAL MASS FLOWMETER SCHEDULE

DESIG	LOCATION	LINE PRESSURE (PSIG)	FLOW RANGE (SCFH)	MINIMUM ACCURACY (%)	MAX DIFFERENTIAL PRESSURE (IN. WG)	CLASS OF SERVICE
FE-4105	BOILER No 1	10	2,500 - 25,000	1.0	14	15
FE-4205	BOILER No 2	10	2,500 - 25,000	1.0	14	15
FE-4305	BOILER No 3	10	2,500 - 25,000	1.0	14	15

FUEL OIL POSITIVE DISPLACEMENT FLOWMETER SCHEDULE

DESIG	LOCATION	OIL VISCOSITY RANGE (cP)	TEMP RANGE (F)	LINE PRESSURE (PSIG)	FLOW RANGE (GPH)	MINIMUM ACCURACY (%)	MAX DIFFERENTIAL PRESSURE (PSIG)
FE-5201	BOILER No 1	7.7 - 11	40 - 70	120	18 - 180	1.0	2
FE-5202	BOILER No 2	7.7 - 11	40 - 70	120	18 - 180	1.0	2
FE-5203	BOILER No 3	7.7 - 11	40 - 70	120	18 - 180	1.0	2
FE-5504	SUPPLY MAIN	7.7 - 11	40 - 70	120	96 - 960	1.0	2
FE-5805	RETURN MAIN	7.7 - 11	40 - 70	VARIES	44 - 880	1.0	2

MISCELLANEOUS FLOWMETER SCHEDULE

DESIG	LOCATION	TEMP (F)	PRESSURE (PSIG)	FLOW RANGE	MINIMUM ACCURACY (%)	MAX DIFFERENTIAL PRESSURE (PSIG)	NOMINAL PIPE SIZE (INCH)
FE-1410	NON-POTABLE WATER SUPPLY	70	85	0 - 210 GPM	5.0	N/A	2
FE-1420	NON-POTABLE WATER SUPPLY	70	85	0 - 210 GPM	5.0	N/A	2
FE-1430	NON-POTABLE WATER SUPPLY	70	85	0 - 210 GPM	5.0	N/A	2
FE-1500	DOMESTIC WATER SUPPLY	70	85	0 - 250 GPM	5.0	N/A	3
FE-1701	NON-POTABLE WATER TO CBT-1	70	85	0 - 130 GPM	5.0	N/A	3
FE-1702	SOFT WATER TO CBT-1	70	90	0 - 130 GPM	5.0	N/A	3
FE-4801	NATURAL GAS SUPPLY	70	15	2,400 - 16,000 SCFH	5.0	N/A	6
FE-8705	STEAM CONDENSATE	212	80	0 - 120 GPM	5.0	N/A	4
FE-8706	STEAM CONDENSATE	212	15	0 - 120 GPM	5.0	N/A	3

FLOW AND LEVEL CONTROL VALVE SCHEDULE

DESIG	LOCATION	SYSTEM	MIN FLOW COEFFICIENT (CV)	FLOW RANGE	TEMP (F)	MAX INLET PRESSURE (PSIG)	MIN OUTLET PRESSURE (PSIG)	MAX LEAKAGE AT SHUT-OFF
LCV-1703	CBT-1	NON-POTABLE WATER	33.3	0 - 130 GPM	70	85	45	CLASS IV
LCV-1704	CBT-1	SOFT WATER	23.3	0 - 130 GPM	70	85	45	CLASS IV
LCV-1804	DA-1	SOFT WATER	20.8	0 - 130 GPM	70	85	40	CLASS IV
LCV-3107	BOILER No 1	BOILER FEED WATER	15.1	0 - 23,000 PPH	250	183	143	CLASS IV
LCV-3207	BOILER No 2	BOILER FEED WATER	15.1	0 - 23,000 PPH	250	183	143	CLASS IV
LCV-3307	BOILER No 3	BOILER FEED WATER	15.1	0 - 23,000 PPH	250	183	143	CLASS IV
LCV-3408	DA-1	REDUCING STATION	20.8	0 - 130 GPM	70	85	40	CLASS IV
FCV-4108	BOILER No 1	NATURAL GAS	46.5	0 - 25,000 SCFH	70	9	7	CLASS IV
FCV-4208	BOILER No 2	NATURAL GAS	46.5	0 - 25,000 SCFH	70	9	7	CLASS IV
FCV-4308	BOILER No 3	NATURAL GAS	46.5	0 - 25,000 SCFH	70	9	7	CLASS IV
FOV-5101	BOILER No 1	FUEL OIL	1.02	0 - 180 GPH	70	120	116	CLASS IV
FOV-5201	BOILER No 2	FUEL OIL	1.02	0 - 180 GPH	70	120	116	CLASS IV
FOV-5301	BOILER No 3	FUEL OIL	1.02	0 - 180 GPH	70	120	116	CLASS IV
FOV-6801	HV-8-1	STEAM	8.8	0 - 800 PPH	250	15	5	CLASS IV
FOV-6802	HV-8-2	STEAM	8.8	0 - 800 PPH	250	15	5	CLASS IV
FOV-6803	HV-8-3	STEAM	8.8	0 - 800 PPH	250	15	5	CLASS IV
LCV-8801	DA-1	CONDENSATE	20.8	0 - 130 GPM	100	80	40	CLASS IV

NOTE: 1. MINIMUM FLOW COEFFICIENT (CV) IS BASED ON AN OPENING CONDITION AT 80% LOAD.

Revisions:

Date	Description

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Drawing Title
MECHANICAL SCHEDULES

Approved: Project Director

Project Title
REPLACE BOILERS - FCA D. ENERGY AT THE MALCOM RANDALL VAMC

Location
GAINESVILLE, FLORIDA

Date
MARCH 9, 2016

Checked
JSN

Drawn
RWD

Project Number
573-14-600

Building Number

Office of Construction and Facilities Management

Drawing Number
MP602

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FINAL DESIGN
 APPROVED FOR CONSTRUCTION

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