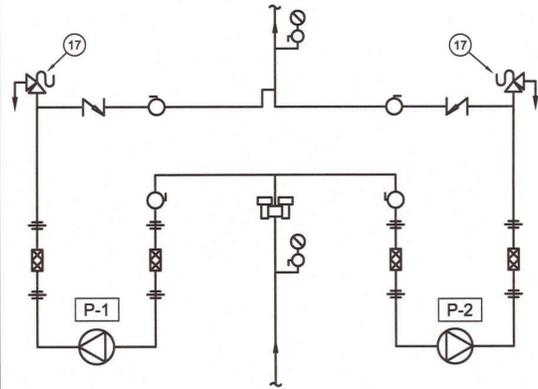
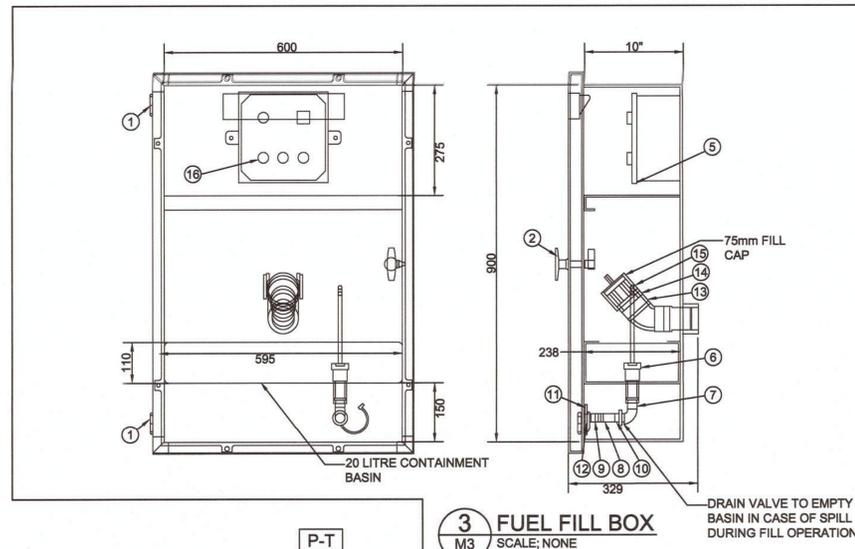


PUMP SCHEDULE										
ID	FLUID	CAPACITY		HP	ELECTRICAL			RPM	COMMENTS	
		FLOW (L/h)	HEAD (kPa)		VOLTS	PHASE	HZ			
P-1	NO. 2 FUEL-OIL	350	30	0.5	120	1	60	1800	2	
P-2	NO. 2 FUEL-OIL	350	30	0.5	120	1	60	1800	2	
P-T	NO. 2 FUEL-OIL	350	30	0.5	120	1	60	1800	1,2	

COMMENTS:
 1 - TEMPORARY INSTALLATION FOR TEMPORARY SUPPLY TANK. SUPPLIED WITH AND MOUNTED ON TEMPORARY TANK.
 2 - PUMPS INSTALLED AND CONNECTED TO CONTROL PANEL BY DIVISION 23. POWER TO CONTROL PANEL FOR PUMPS INSTALLED AND CONNECTED TO CONTROL PANEL BY DIVISION 25.



2 P-1 AND P-2 INSTALLATION DETAIL
 M3 SCALE: NONE

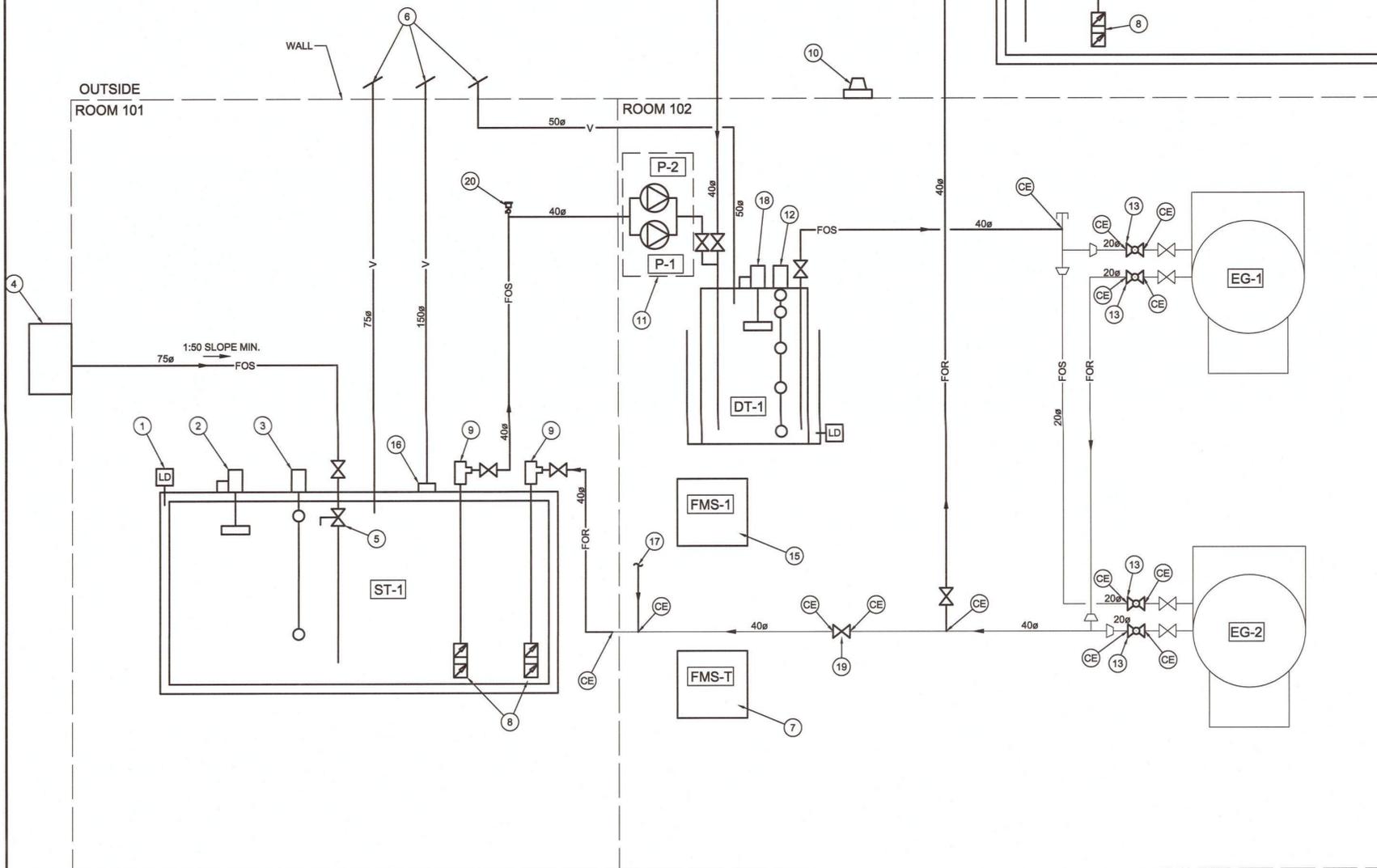


3 FUEL FILL BOX
 M3 SCALE: NONE

No.	MATERIAL	DESCRIPTION
1	STAINLESS STEEL	60mm WELDED HINGE
2	ALUMINUM	T-HANDLE WITH LOCK SPAE 097-055
3	304 STAINLESS STEEL 12 Ga.	BOX
4	304 STAINLESS STEEL 12 Ga.	DOOR
5	STEEL	BOX FOR AUDIO AND VISUAL HIGH LEVEL ALARM
6	304 STAINLESS STEEL	MANUAL VALVE OPW PC 04427
7	304 STAINLESS STEEL	ELBOW MF 90 CL 150 20mm
8	304 STAINLESS STEEL	NIPPLE 12mm x 50mm
9	ALUMINUM	QUICK CONNECT ADAPTER F NPT TYPE A 12mm
10	304 STAINLESS STEEL	REDUCER MF 20mm x 12mm
11	304 STAINLESS STEEL	150mm SECURITY CHAIN
12	ALUMINUM	NON-LOCKABLE QUICK CONNECT CAP 12mm
13	304 STAINLESS STEEL	ELBOW MF 45 CL 150 50mm
14	ALUMINUM	QUICK CONNECT ADAPTER M NPT TYPE F 50mm
15	ALUMINUM	QUICK CONNECT CAP TYPE DC 50mm
16	---	EXPLOSION PROOF OVERFILL LIGHT, HORN, AND SILENCE

- GENERAL NOTES**
- REFER TO DRAWING E1 FOR CONTROLS SCHEMATICS FOR FMS-1 AND FMS-T.
 - ISOLATING VALVES FOR PIPING OFF ST-1, ST-T, AND DT-1 ARE TO BE INSTALLED AS CLOSE AS PRACTICABLE TO TANK CONNECTIONS.

- DRAWING NOTES**
- ST-1 VACUUM LEAK DETECTOR. CONNECT TO FMS-1.
 - ST-1 FUEL LEVEL SENSOR. CONNECT TO FMS-1.
 - LIQUID LEVEL SWITCH FOR ST-1. SWITCH TO BE EQUIPPED WITH TWO LEVEL SWITCHES. CONNECT TO FMS-1.
 - FILL BOX MOUNTED ON EXTERIOR WALL OF ROOM 101. BOX TO BE MOUNTED 2620mm ABOVE GRADE.
 - OVERFILL PREVENTION VALVE FOR ST-1 MOUNTED ON FILL LINE FOR TANK.
 - VENT TERMINATION THROUGH REAR WALL OF ROOM 101. REFER TO DETAIL 4 ON DRAWING M4 FOR INSTALLATION DETAIL.
 - FMS-T TO BE WALL-MOUNTED IN ROOM 102. REFER TO DRAWING M1 FOR MOUNTING HEIGHT.
 - DOUBLE POPPET FOOT VALVE FOR FUEL LINE FROM FUEL TANK.
 - FOOT VALVE EXTRACTOR FITTING INSTALLED AT TANK CONNECTION FOR FUEL-OIL LINE.
 - NEW WALL-MOUNTED ALARM LIGHT FOR DIESEL TANK SYSTEM. REFER TO DRAWING E1 FOR ALARM LIGHT OPERATION AND POWER DETAIL.
 - DUPLEX PUMP ASSEMBLY. REFER TO DETAIL 2 FOR PUMP FITTINGS AND ACCESSORIES.
 - LIQUID LEVEL SWITCH FOR DT-1. SWITCH TO BE EQUIPPED WITH FIVE LEVEL SWITCHES. CONNECT TO FMS-1 AND FMS-T.
 - NEW FUSOMATIC GATE VALVE INSTALLED AS CLOSE AS PRACTICABLE TO EMERGENCY GENERATOR ON EXISTING PIPING.
 - TEMPORARY FUEL TANK ST-T INSTALLED OUTSIDE OF BUILDING. ST-T IS TO HAVE SECONDARY CONTAINMENT, VACUUM LEAK DETECTION, INCLUDE PUMP P-T, AND BE INSTALLED WITH ALL ACCOUTREMENTS AND TO MEET ALL REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS. CONNECT TO FMS-1.
 - FMS-1 TO BE WALL-MOUNTED IN ROOM 102. REFER TO DRAWING M2 FOR MOUNTING HEIGHT.
 - TANK MOUNTED EMERGENCY VENT CONNECTED TO VENT LINE ROUTED THROUGH WALL.
 - FUEL OIL THERMAL RELIEF VALVE PIPED TO RETURN LINE TO ST-1. VALVE TO BE SIZED FOR FULL FLOW OF PUMP.
 - FUEL LEVEL SENSOR FOR DT-1. SENSOR TO BE CONNECTED TO FMS-1.
 - REFER TO DRAWING NOTE 2 ON DRAWING M1.
 - ANTI-SIPHON VALVE TO BE INSTALLED AT HIGH POINT OF SUCTION LINE FOR PUMPS P-1 AND P-2.



1 TEMPORARY AND NEW FUEL SCHEMATIC
 M3 SCALE: NONE



00	ISSUED FOR TENDER	2014/12/01
0A	ISSUED FOR 90% REVIEW	2014/10/29
Revision	Description	Date

Client: _____ client

CORRECTIONAL SERVICE CANADA

BOWDEN INSTITUTION
 INNISFAIL, ALBERTA

Project title: _____ Projet

ELECTRICAL SUBSTATION
SECONDARY TANK COMPLIANCE

Designed by: **C. McGEE** Conçu par
 Drawn by: **C. McGEE** Dessiné par
 Approved by: **G. LYNCH** Approuvé par

PWGSC Project Manager: **S. PHYPERS** Administrateur de Projets TPSGC

Drawing title: **MECHANICAL SCHEMATIC** Titre du dessin

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.072042.001	M3	00
	OF 4	