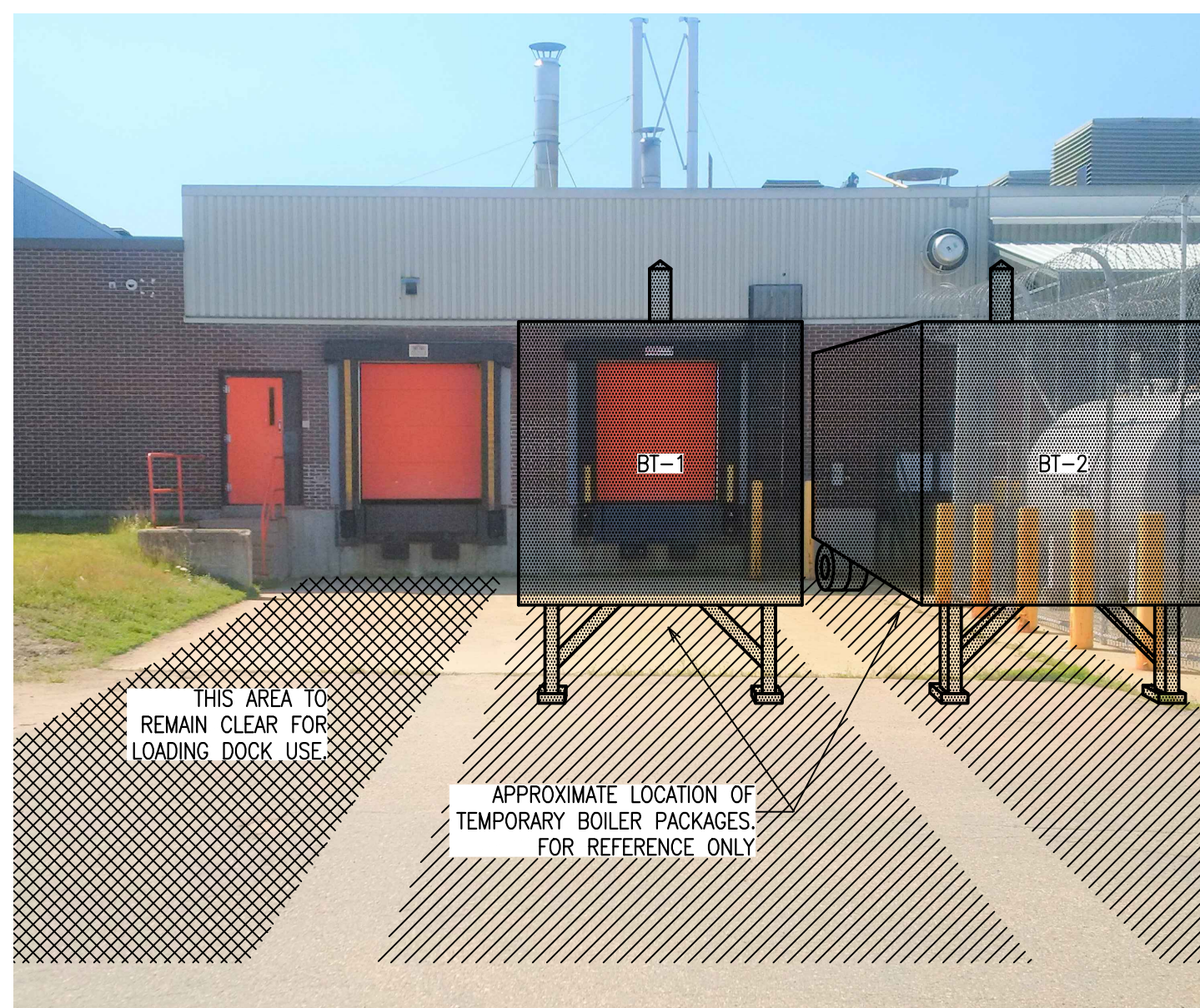


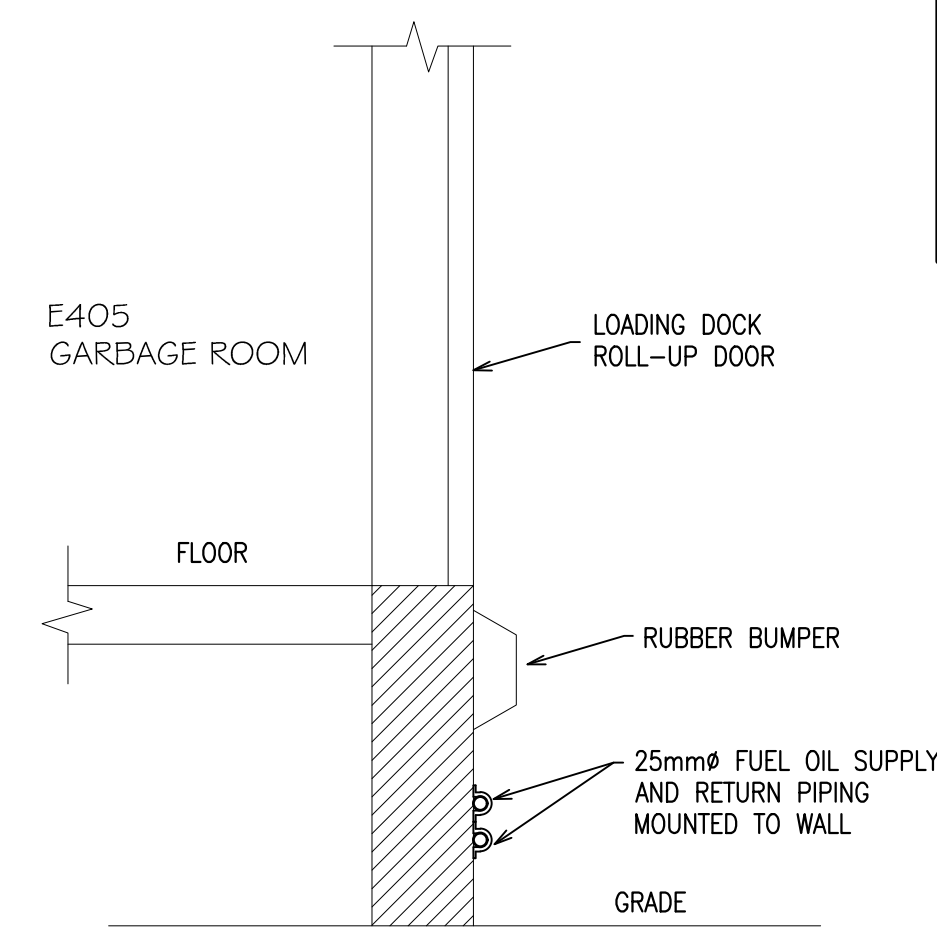
PARTIAL FIRST LEVEL – TEMPORARY PIPING CONNECTIONS  
SCALE : 1:50

NO	TYPE	FUEL	NET OUTPUT (kW)	FLOW (L/S)	FLUE SIZE (MM)	WATER CONNECTIONS (MM)	ELECTRICAL	REMARKS
							V PH HZ A	
BT-1 & BT-2	TEMPORARY RENTAL PACKAGED HOT WATER BOILER	#2 OIL	1960	60.86 @ 32.0 m	450	150	575 3 60 100	C/W SINGLE PACKAGED BOILER, CIRCULATING PUMP(S), EXPANSION TANKS, EXHAUST STACKS, WATER TREATMENT EQUIPMENT, SINGLE POINT ELECTRICAL CONNECTION.

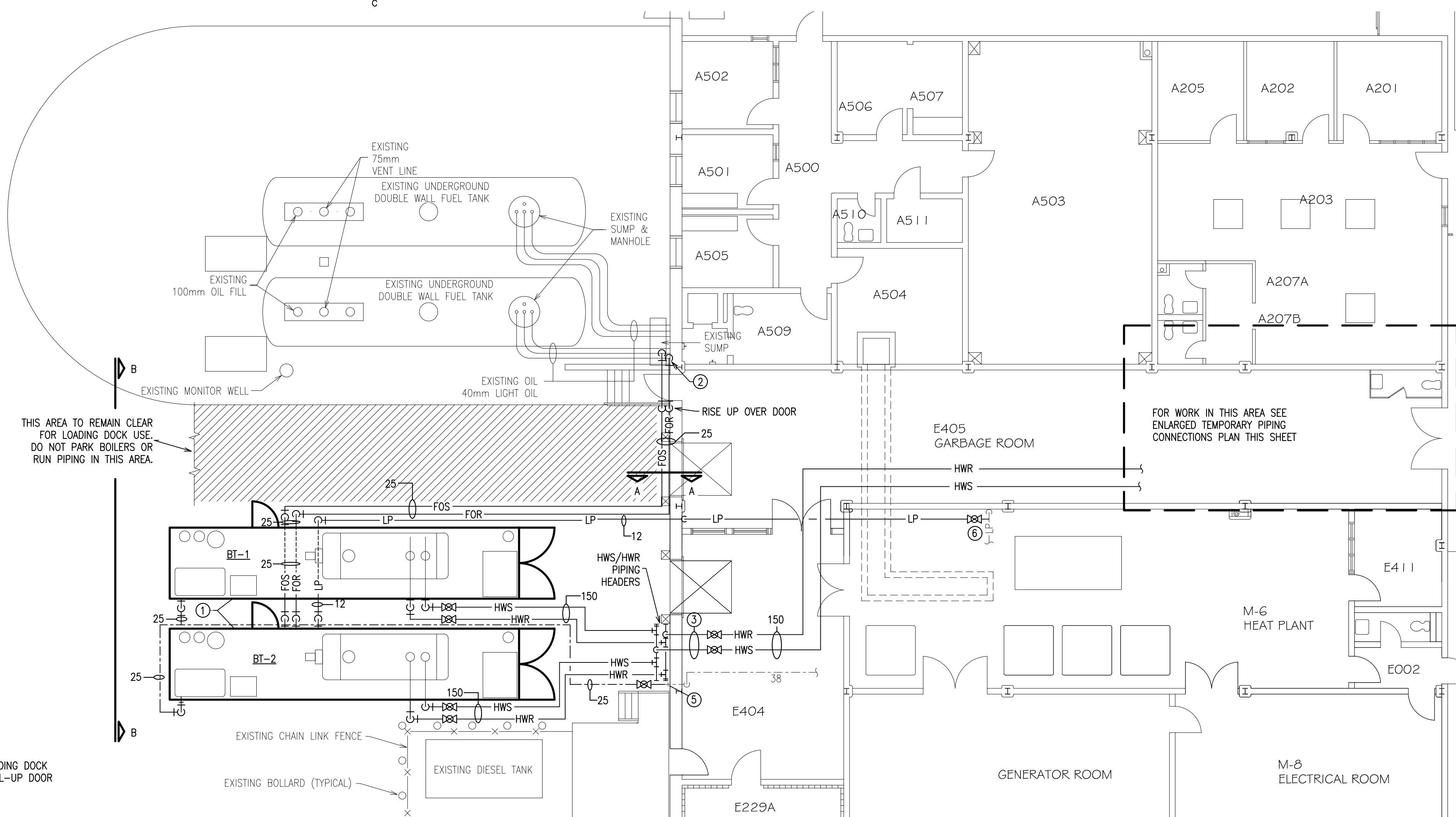
NO	SERVICE	DESCRIPTION	CAPACITY	ELECTRICAL	REMARKS
			FLOW (L/S) HEAD (M) RPM	KW V PH HZ	
TCP-1	HOT WATER SUPPLY PUMP	CENTRIFUGAL PUMP	60.86 4.57 1200	5.6 575 3 60	C/W TRIPLE DUTY VALVE, SUCTION GUIDE, STRAINER & FLEX CONNECTOR, TEFC INVERTER DUTY PREMIUM EFFICIENCY MOTOR & VFD
TCP-2	HOT WATER SUPPLY PUMP	CENTRIFUGAL PUMP	60.86 4.57 1200	5.6 575 3 60	C/W TRIPLE DUTY VALVE, SUCTION GUIDE, STRAINER & FLEX CONNECTOR, TEFC INVERTER DUTY PREMIUM EFFICIENCY MOTOR & VFD
TFP-1	BOILER FUEL OIL SUPPLY	FUEL OIL PUMP	0.095 10.6 1725	25 115 1 60	C/W AUTOMATIC CONTROLS WITH LEAD-LAG SWITCH AND ALARM, SINGLE POINT ELECTRICAL CONNECTION, AND CONTROL PANEL
TFP-2	BOILER FUEL OIL SUPPLY	FUEL OIL PUMP	0.095 10.6 1725	25 115 1 60	C/W AUTOMATIC CONTROLS WITH LEAD-LAG SWITCH AND ALARM, SINGLE POINT ELECTRICAL CONNECTION, AND CONTROL PANEL



ELEVATION B-B  
SCALE : NTS



SECTION A-A  
SCALE : NTS



PARTIAL FIRST LEVEL – TEMPORARY BOILER PACKAGE  
SCALE : 1:100

**GENERAL NOTES**

ALLOW FOR EXTRA PIPE AND FITTINGS FOR OFFSETS TO COMPLETE INSTALLATION AND AVOID INTERFERENCES.

CONTRACTOR TO VERIFY EXACT LOCATION OF TEMPORARY BOILER PACKAGE WITH OWNER PRIOR TO INSTALLATION.

EXACT LOCATION OF SERVICE CONNECTIONS MAY VARY DEPENDING ON TEMPORARY BOILER PACKAGE MANUFACTURER/SUPPLIER.

TEMPORARY BOILERS MUST HAVE A NEW BRUNSWICK OPERATING CERTIFICATE AND MEET NEW BRUNSWICK BOILER REGULATIONS

**DRAWING NOTES**

① NEW TEMPORARY RENTAL BOILER PACKAGES TO BE PROVIDED BY CONTRACTOR. EACH PACKAGE SHALL CONTAIN ONE OIL-FIRED (#2 FUEL OIL), HOT WATER TYPE, 150 BHP, 800/3/60 BOILER AND ALL NECESSARY HOT WATER CIRCULATING PUMPS, EXPANSION TANKS, STACK ETC. TO PROVIDE A FULLY FUNCTIONING HEATING SYSTEM.

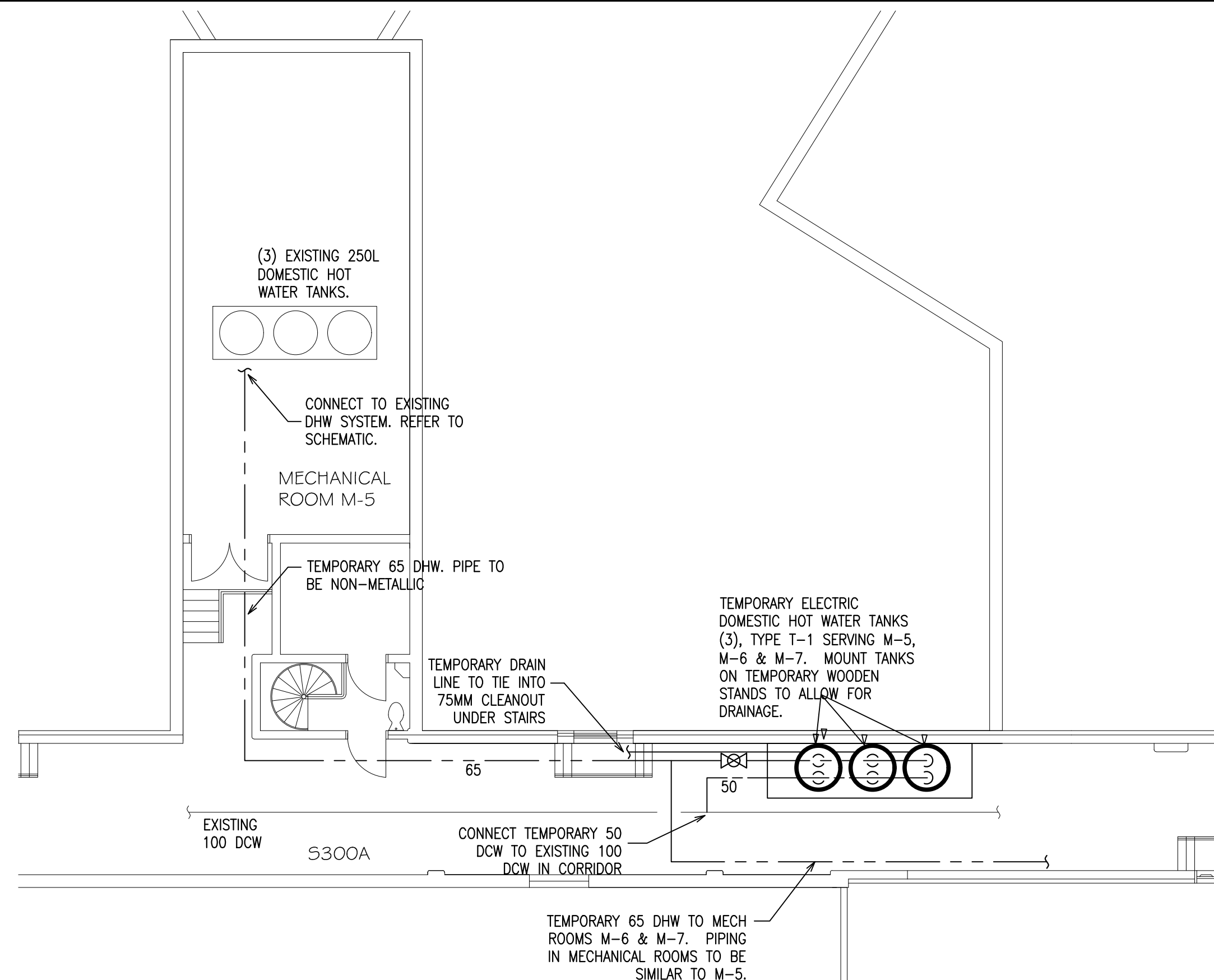
② CONNECT TEMPORARY 25mm# FUEL LINES TO EXISTING UNDERGROUND FUEL TANKS IN THIS LOCATION. IF THIS IS NOT POSSIBLE, CONTRACTOR SHALL PROVIDE A TEMPORARY FUEL STORAGE CONTAINER. OWNER WILL BE RESPONSIBLE FOR ALL COSTS TO FILL TEMPORARY CONTAINER. INSTALL PIPING IN ACCORDANCE WITH CSA B149 REQUIREMENTS AND THE AUTHORITY HAVING JURISDICTION. ROUTE AND INSTALL PIPING AGAINST BUILDING AND BELOW LOADING DOCK BUMPERS TO PROVIDE PROTECTION FROM LOADING DOCK ACTIVITY, TRAFFIC, ETC.

③ TEMPORARY HWS AND HWR PIPING FROM TEMPORARY BOILER PACKAGES. ROUTE PIPING AS SHOWN INTO BUILDING AND PROVIDE PROTECTION FROM DAMAGE. PIPING SHALL ENTER BUILDING AT THE ELEVATION REQUIRED TO RUN TIGHT TO UNDERSIDE OF OPEN WEB JOISTS. REFER TO DRAWING H-103 FOR PENETRATION DETAIL. CONNECT TO EXISTING SUPPLY AND RETURN PIPING IN CORRIDOR. TEMPORARY CONNECTIONS SHALL REMAIN AFTER CONSTRUCTION. CAP PIPING OUTSIDE AT EXTERIOR WALL AND INSTALL ISOLATIONS VALVES INSIDE BUILDING FOR FUTURE USE.

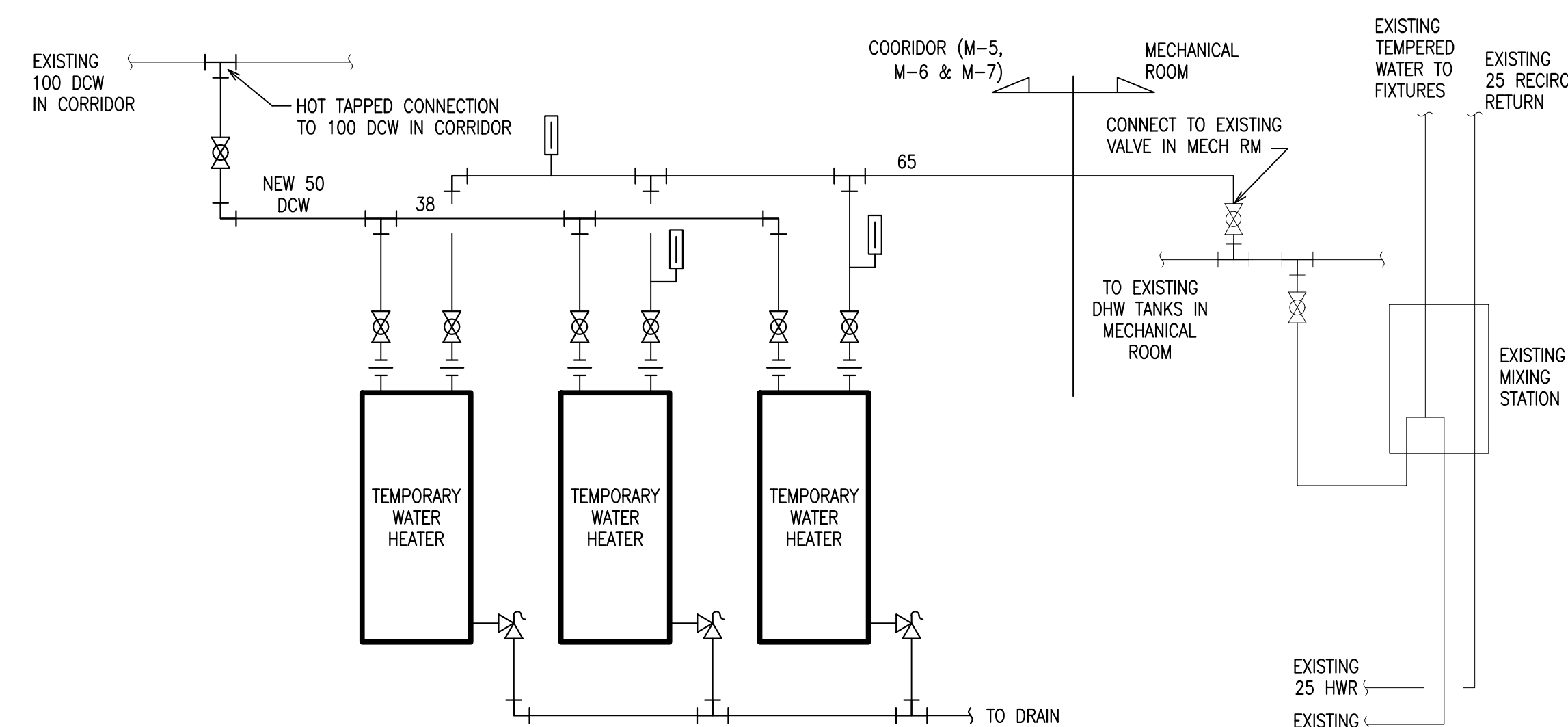
④ CONNECT TO EXISTING HWS AND HWR PIPING IN THIS APPROXIMATE LOCATION. INSTALL ISOLATION VALVES AT EACH CONNECTION. UPON PROJECT COMPLETION, VALVES SHALL REMAIN IN PLACE AND CLOSED AFTER TEMPORARY PIPING HAS BEEN REMOVED.

⑤ CONNECT 25mm# DOMESTIC WATER LINE FOR BOILER MAKE-UP TO EXISTING EXTERIOR WALL HYDRANT. HEAT TRACE PIPING AS REQUIRED.

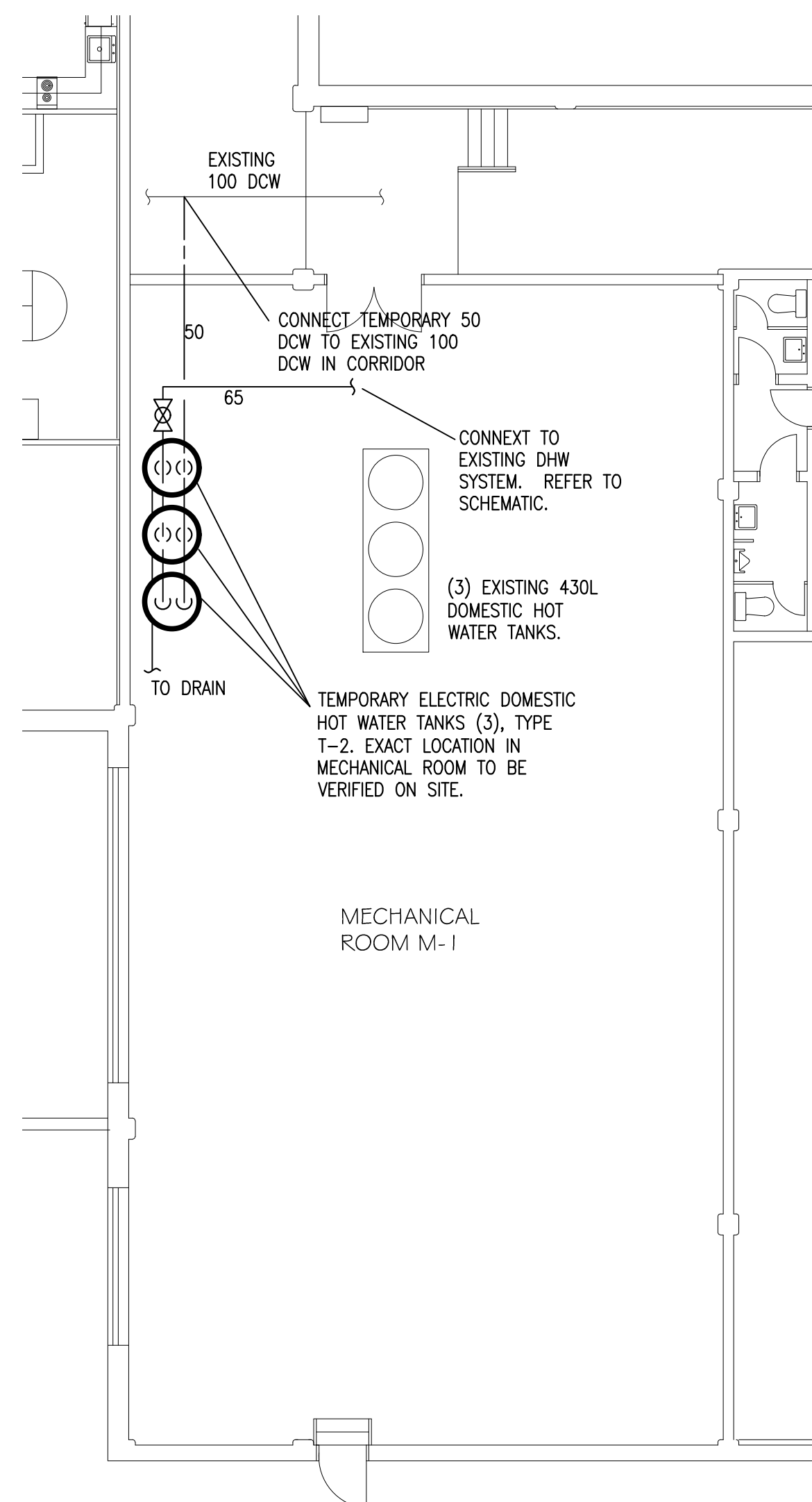
⑥ CONNECT NEW 12mm# PROPANE PIPING TO EXISTING SUPPLY IN BOILER ROOM.



PARTIAL SECOND FLOOR PLAN – MECH ROOM M-5 – (TYPICAL FOR M-6 & M7)  
SCALE : 1:50

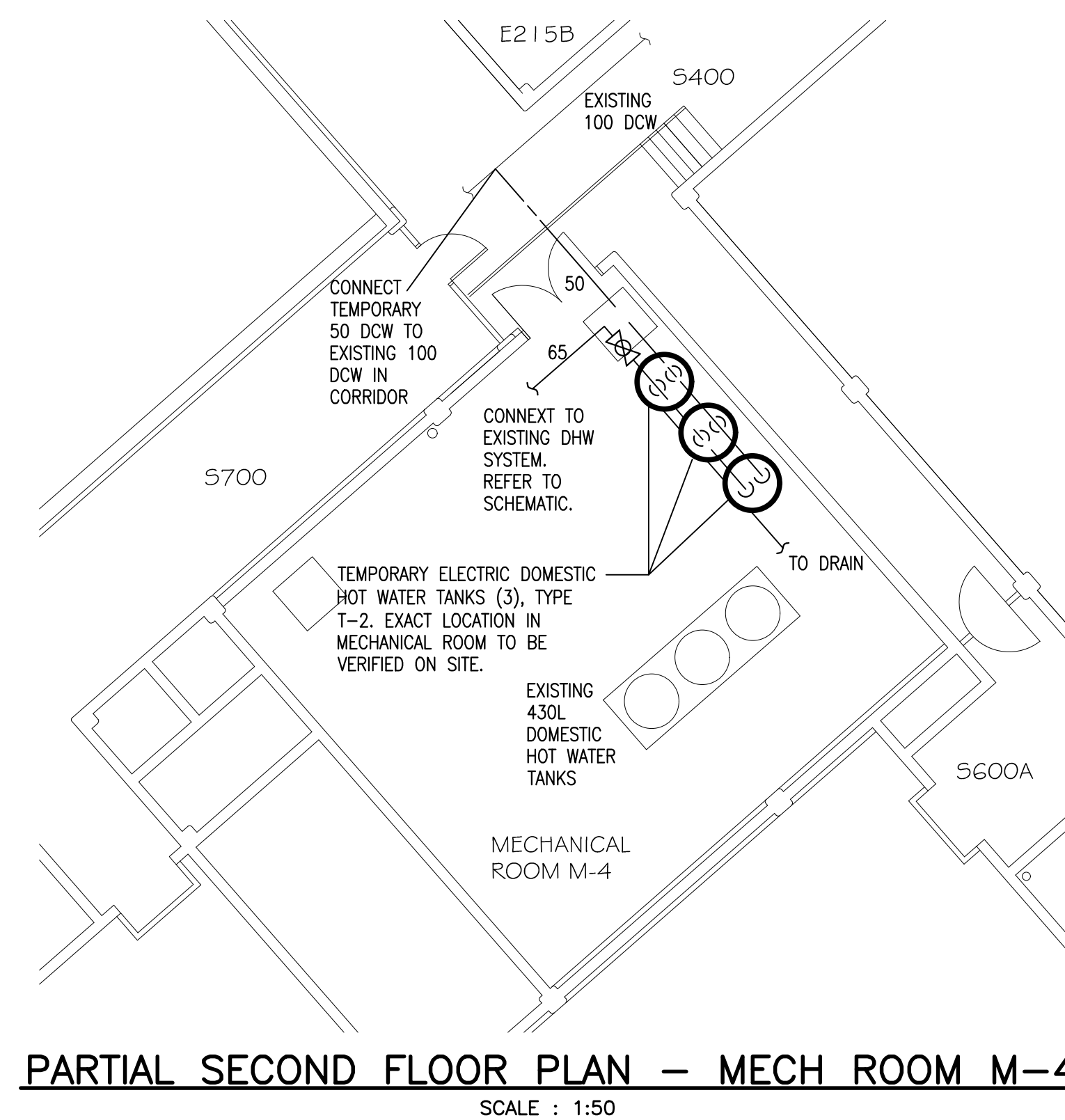


TEMPORARY DHW TANK PIPING SCHEMATIC  
SCALE : NTS



PARTIAL SECOND FLOOR PLAN – MECH ROOM M-1  
SCALE : 1:50

NO	SERVICE	VOLUME (L)	HEATING CAPACITY (kW)	ELECTRICAL	WATER CONNECTIONS	REMARKS
				V PH HZ	INLET OUTLET	
T-1	ELECTRIC DHW TANK	455	45	600 3 60	25 25	C/W STAINLESS STEEL COIL, HD FOAM INSULATION AND POLYPROPYLENE JACKET
T-2	ELECTRIC DHW TANK	415	54	600 3 60	25 25	C/W STAINLESS STEEL COIL, HD FOAM INSULATION AND POLYPROPYLENE JACKET

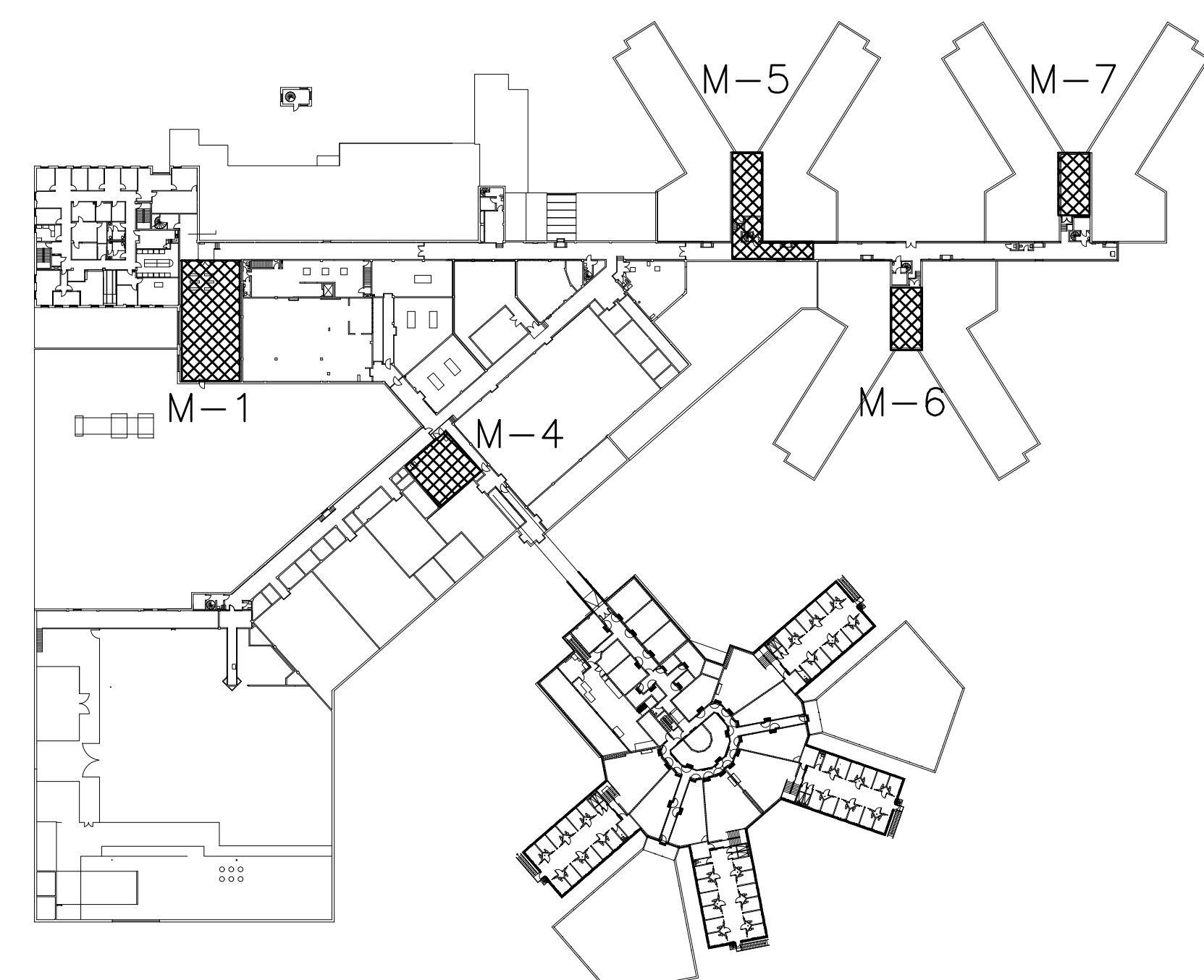


PARTIAL SECOND FLOOR PLAN – MECH ROOM M-4  
SCALE : 1:50

**GENERAL NOTES**

ALLOW FOR EXTRA PIPE AND FITTINGS FOR OFFSETS TO COMPLETE INSTALLATION AND AVOID INTERFERENCES.

ALL CONNECTIONS TO EXISTING DOMESTIC COLD WATER LINES FOR TEMPORARY TANK SUPPLY TO BE DONE USING HOT TAPPING IN ORDER TO MAINTAIN DOMESTIC COLD WATER SERVICE DURING WORK. VERIFY ON SITE BEST LOCATION FOR CONNECTION TO EXISTING LINE.



KEY PLAN – SECOND FLOOR  
SCALE : N.T.S.



0	ISSUED FOR TENDER	NOV 04 2019
revisions		date
project		project

ATLANTIC INSTITUTION  
HEATING PLANT UPGRADE

TEMPORARY  
MECHANICAL  
SERVICES AND DETAILS

designed B.S.M.	conçu
date NOVEMBER 2019	date
drawn S.E.B.	dessiné
date NOVEMBER 2019	date
approved	approuvé
date	date
Tender	Soumission
FWGSC Project Manager	Administrateur de projets TPWSC
project number	no. du projet
R.087698.001	
drawing no.	no. du dessin
H-104	