

GENERAL DIESEL NOTES

- CONTRACTOR SHALL PUMP OUT THE DIESEL FUEL STORED INSIDE THE STORAGE TANKS. CONTRACTOR SHALL STORE, HANDLE AND TRANSPORT THE DIESEL FUEL AS PER CSA-B139 LATEST EDITION. COORDINATE WITH PROPERTY MANAGEMENT TO DETERMINE WHETHER THE PUMPED FUEL CAN BE RE-USED FOR THE TEMPORARY TANK OR AT ANY OTHER FACILITY. ELSE THE CONTRACTOR SHALL DISPOSE OF THE PUMPED DIESEL AS PER CSA-B139.†
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH TSSA REGARDING VARIANCE. CONTRACTOR SHALL ENSURE THAT ALL ULC LABELS ON ALL DIESEL ACCESSORIES AND FITTINGS (PIPING, VALVES, TANK ETC.) ARE CLEARLY VISIBLE FOR TSSA INSPECTIONS.
- CONTRACTOR SHALL TEST & COMMISSION THE DIESEL GENERATOR AND FUEL SYSTEM AT END OF CONSTRUCTION. FILL OUT AND COMPLETE COMMISSIONING REPORT AS PER TENDER SPECIFICATIONS.
- CONTRACTOR SHALL REMOVE UNUSED TANKS, PIPES, FITTINGS AND OTHER RELATED ITEMS FROM THE SITE AT THE END OF CONSTRUCTION.
- CONTRACTOR SHALL SIGN AND COMPLETE ALL TSSA COMPREHENSIVE CHECKLISTS AT THE END OF CONSTRUCTION.

SCOPE OF WORK

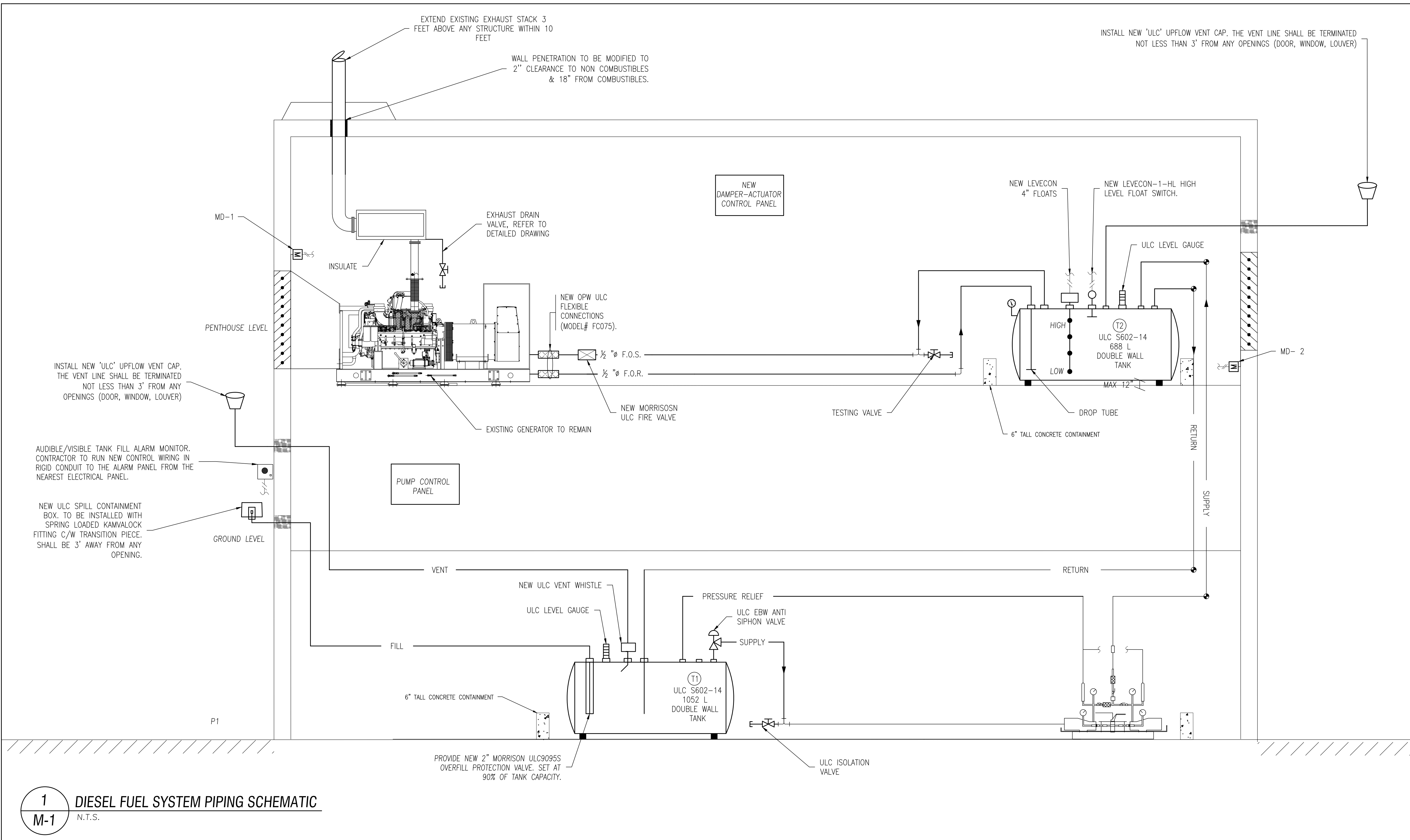
- REMOVE AND DISPOSE OF EXISTING MAIN DIESEL TANK AND DAY DIESEL TANK AS PER CSA B-139.
- SUPPLY AND INSTALL NEW MAIN TANK AND DAY TANK AS PER SCHEDULE. PROVIDE NEW AND/OR EXTEND EXISTING PIPES TO FACILITATE THE NEW INSTALLATION.
- SUPPLY AND INSTALL ALL DIESEL ACCESSORIES AS INDICATED ON THE DRAWINGS.
- NEW REDUNDANT SYSTEM AS PER DRAWING.
- RUN NEW POWER SUPPLY LINES TO ALL NEW EQUIPMENT AS REQUIRED.
- ALL DIESEL PIPES (NEW AND EXISTING) SHALL BE PAINTED DARK BROWN AND LABELED C/W DIRECTION OF FLOW (INCLUDING D. RISERS).
- EPOXY PAINT AND CONTAIN BOTH GENERATOR ROOM AND TANK ROOM UP TO 6' FROM THE FLOOR.
- CONTRACTOR SHALL PROVIDE A TEMPORARY DIESEL TANK INSIDE GENERATOR ROOM DURING THE CONSTRUCTION PERIOD TO ENSURE GENERATOR OPERATION.

FUEL OIL TANK SCHEDULE

TAG	MAKE	MODEL	CAPACITY	LOCATION	REMARKS
T1	DES JARDINS	ULC S602	1052 LITRES	P1	DOUBLE WALL, VACUUM MONITORED STORAGE TANK; CONSTRUCTED TO ULC-S602; GAUGING OF TANK MUST CONFORM TO CSA B139. TANKS SHALL BE INSTALLED & SUPPORTED AS PER DRAWINGS & MANUFACTURERS RECOMMENDATIONS.
T2	DES JARDINS	ULC S602	688 LITRES	PENTHOUSE LEVEL	APPROVED MANUFACTURES, DTE, AND CLEMMER. TANK SHALL BE EQUIPPED WITH VACUUM GAUGE, VACUUM SWITCH, AND BOTTOM CONNECTION FOR DRAINAGE.

ACTUATORS SCHEDULE

TAG	TYPE	MAKE	MODEL	SIZE	POWER
MD-1	SPRING LOADED	BELIMO (ACTUATOR)	FSNF120-S	-	120 VAC
MD-2					
REMARKS					
SPRING RETURN DAMPER ACTUATOR. ACTUATOR SHALL BE DIRECT COUPLED TYPE WHICH REQUIRE NO CRANKCAM OR LINKAGE AND CAPABLE OF DIRECT MOUNTING. ACTUATOR SHALL BE DESIGNED TO OPERATE FOR CLOCKWISE AND COUNTERCLOCKWISE OPERATION WITHOUT FAILURE. ACTUATOR SHALL BE ULC LISTED AND CSA CERTIFIED.					
INSTALL ACTUATORS AS PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL VERIFY ONSITE THE NUMBER OF ACTUATORS NEEDED AND THE POWER SUPPLY AVAILABLE FOR THE DAMPER ACTUATORS. PROVIDE AN ALARM AT INTAKE COMBUSTION DAMPER TO BE TIED DIRECTLY TO F.A PANEL OR GENERATOR TROUBLE. INTAKE DAMPERS TO FAILSAFE OPEN WITHIN 30 SEC.					



MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING EQUIPMENT/DUCTWORK / PIPING
---	NEW EQUIPMENT / DUCTWORK / PIPING
////	EXISTING DUCTWORK/PIPING/EQUIPMENT TO BE REMOVED
---	PIPE CONTINUATION
C.T.E	CONNECT TO EXISTING
RL	EXISTING EQUIPMENT TO BE RELOCATED
RE	RELOCATED EQUIPMENT AT NEW LOCATION
E	END CAP
---F.O.R.---	FUEL OIL RETURN
---F.O.S.---	FUEL OIL SUPPLY
---F---	FILL LINE
---V---	VENT LINE
⊕	GAUGE
⊕	ANTI SIPHON VALVE
⊕	PRESSURE RELIEF VALVE
---	CONTROL WIRING
⊕	FIRE VALVE
⊕	ISOLATION VALVE
⊕	CHECK VALVE
⊕	FLEXIBLE CONNECTION
⊕	STEEL PIPE SLEEVE WITH FIRE RATED AND/OR WEATHERPROOF MATERIAL

1.	ISSUED FOR TSSA REVIEW	JULY 2023
No.	Description	Date
ISSUES/REVISIONS		



PROJECT		
DRAWING TITLE		
DIESEL FUEL SYSTEM UPGRADE		
DATE	JULY 2023	PROJECT NO.
SCALE	N.T.S.	23051
DRAWN	H.W.	MECHANICAL
DESIGNED	A.S.	DRAWING NO.
CHECKED	A.S.	M-1