

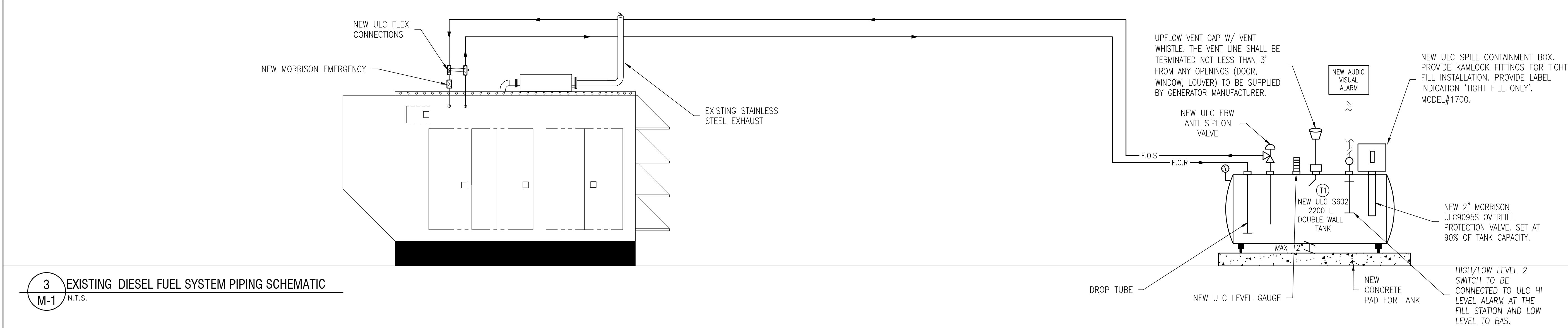
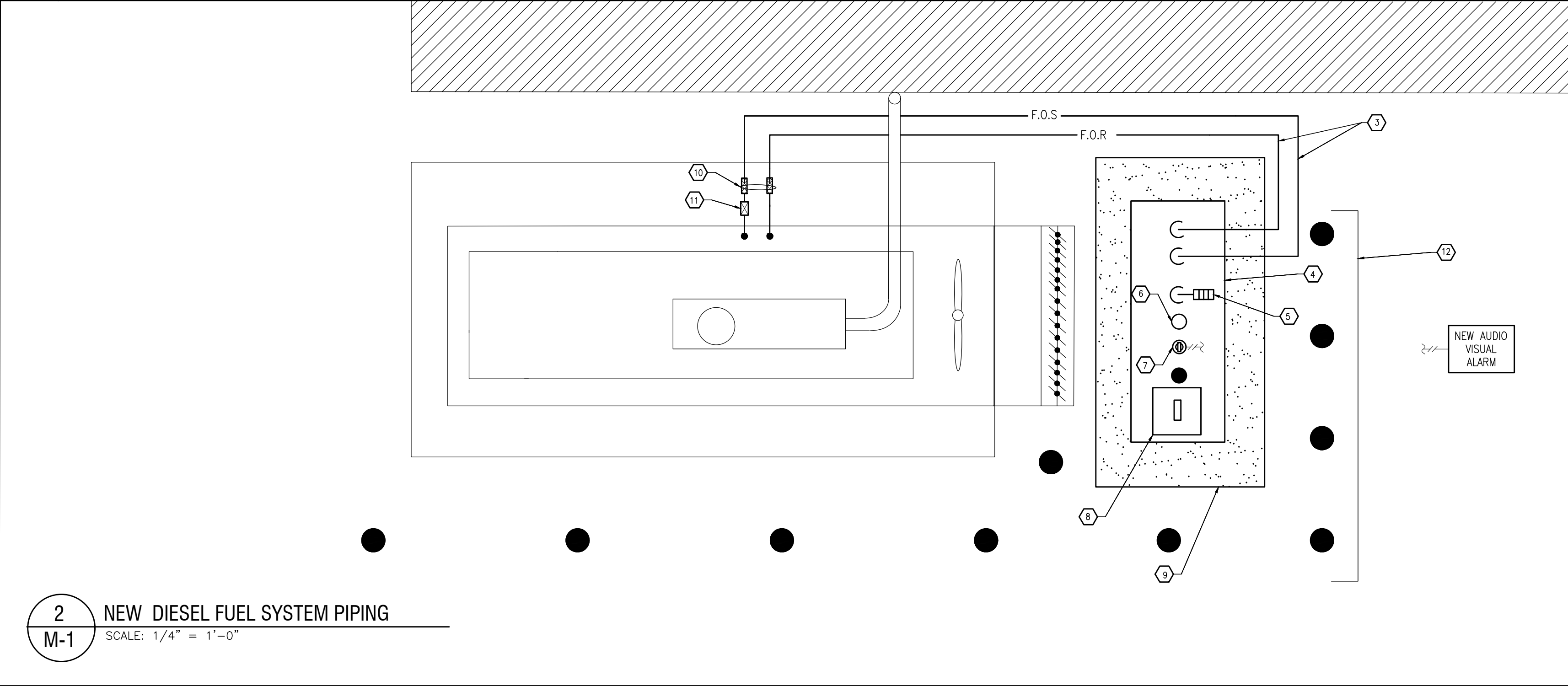
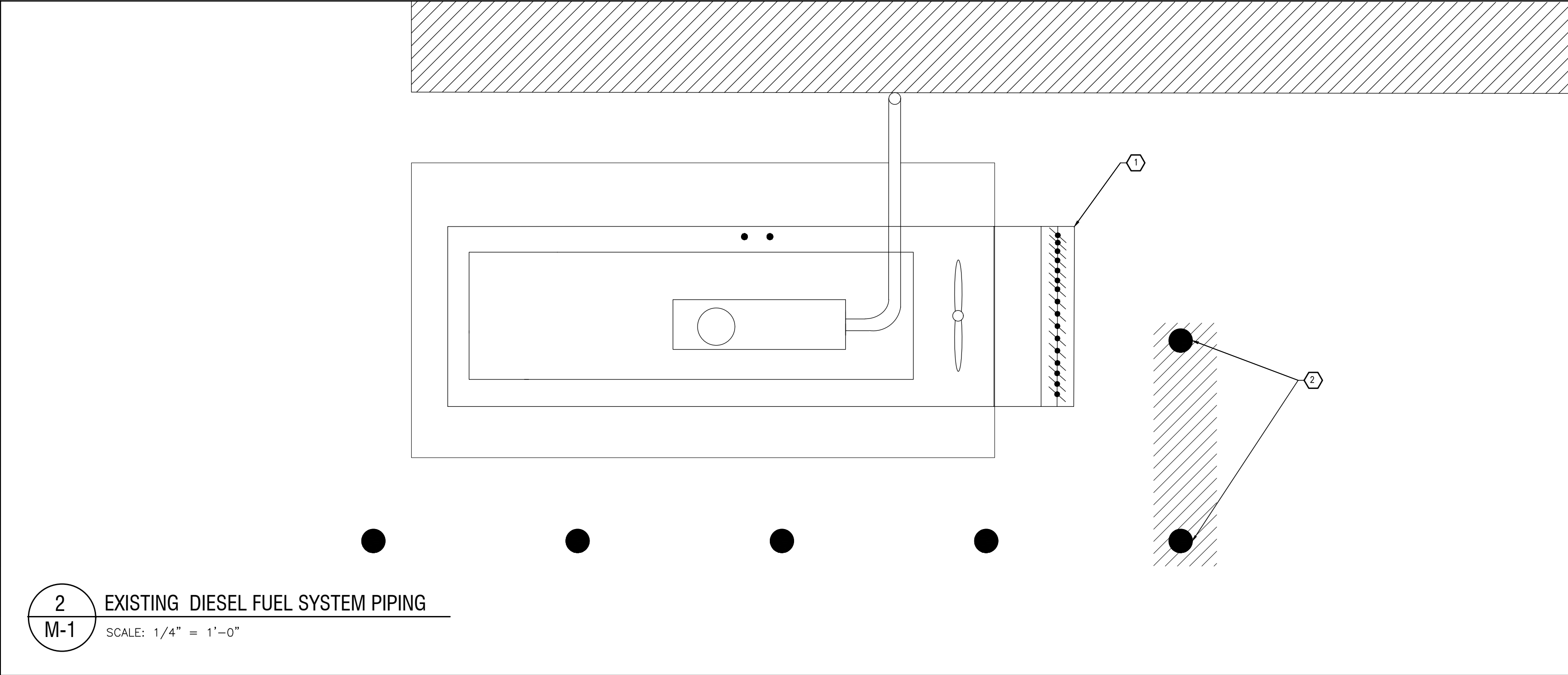
- GENERAL DIESEL NOTES**
- CONTRACTOR SHALL ENSURE THAT ALL ULC LABELS ON ALL DIESEL ACCESSORIES AND FITTINGS (PIPING, VALVES, TANK ETC.) ARE CLEARLY VISIBLE FOR CLIENT.
 - CONTRACTOR WILL TEST & COMMISSION THE DIESEL GENERATOR AND FUEL SYSTEM AT END OF CONSTRUCTION. FILL OUT AND COMPLETE COMMISSIONING 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.
 - UNLESS OTHERWISE NOTED, ALL EQUIPMENT, ACCESSORIES SHALL BE ULC.

- SCOPE OF WORK**
- DECOMMISSION EXISTING DIESEL GENERATORS AS PER CSA B-139.
 - BUILD A NEW CONCRETE PAD FOR MAIN TANK.
 - INSTALL NEW MAIN DIESEL TANK.
 - 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.
 - ALL DIESEL PIPES (NEW AND EXISTING) SHALL BE PAINTED DARK BROWN AND LABELED C/W DIRECTION OF FLOW. PIPING OR TUBING PENETRATING WALL SHALL BE SLEEVED OR DOUBLE WRAPPED WITH PIPE TAPE.

FUEL OIL TANK SCHEDULE					
TAG	MAKE	MODEL	CAPACITY	LOCATION	REMARKS
T1	GRANBY	ULC S602	2200 LITERS	OUTSIDE	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. 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	REMARKS
MD-1&2	SPRING LOADED	BELIMO (ACTUATOR)	FSNF120-S	-	120 VAC	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.

- WORKING NOTES:**
- EXISTING GENERATOR, MUFFLER TO REMAIN, EXHAUST. THE SUB BASE TANK TO BE DISCONNECTED AND CLEANED.
 - 2 OF THE EXISTING BOLLARDS FACING THE GENERATOR TO BE DEMOLISHED.
 - NEW 1/2"Ø SCHEDULE 40 F.O.S. AND F.O.R. LINES TO THE GENERATOR.
 - NEW ULC S602 DOUBLE WALLED VACUUM MONITORED 2200 L TANK.
 - NEW ULC LEVEL GAUGE.
 - NEW 2" ULC VENT CAP.
 - NEW ULC ALBANY LEVCON 2; LOW LEVEL TO BE SET AT 25% AND HIGH LEVEL TO BE SET AT 90%.
 - NEW SPILL BOX AND FILL PLATFORM COMES INTEGRATED WITH THE TANK.
 - NEW CONCRETE PAD FOR TANK.
 - NEW OPW ULC STAINLESS STEEL FLEXIBLE CONNECTION ON FUEL OIL SUPPLY AND RETURN.
 - NEW ULC MORRISON FIRE VALVE.
 - INSTALL NEW BOLLARDS SURROUNDING THE TANK PAD.



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
ASV	ANTI SIPHON VALVE
PRV	PRESSURE RELIEF VALVE
---	CONTROL WIRING
Ⓜ	FIRE VALVE
ISV	ISOLATION VALVE
CV	CHECK VALVE
---	FLEXIBLE CONNECTION
---	STEEL PIPE SLEEVE WITH FIRE RATED AND/OR WEATHERPROOF MATERIAL

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



PROJECT		
DRAWING TITLE		
DIESEL FUEL SYSTEM UPGRADE		
DATE	JULY 2023	PROJECT NO.
SCALE	1/4" = 1'-0"	MF23073
DRAWN	H.W	MECHANICAL
DESIGNED	A.S.	DRAWING NO.
CHECKED	A.S.	M-1