GENERAL DIESEL NOTES

- 1. 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.+
- 2. 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.
- 3. CONTRACTOR SHALL TEST & COMMISSION THE DIESEL GENERATOR AND FUEL SYSTEM AT END OF CONSTRUCTION. FILL OUT AND COMPLETE COMMISSIONING REPORT AS PER TENDER SPECIFICATIONS.
- 4. CONTRACTOR SHALL REMOVE UNUSED TANKS, PIPES, FITTINGS AND OTHER RELATED ITEMS FROM THE SITE AT THE END OF CONSTRUCTION.
- 5. CONTRACTOR SHALL SIGN AND COMPLETE ALL TSSA COMPREHENSIVE CHECKLISTS AT THE END OF CONSTRUCTION.

SCOPE OF WORK

- PROVIDE NEW AND/OR EXTEND EXISTING PIPES TO FACILITATE THE NEW INSTALLATION
- 2. SUPPLY AND INSTALL ALL DIESEL ACCESSORIES AS INDICATED ON THE DRAWINGS.
- 3. NEW REDUNDANT SYSTEM AS PER DRAWING.
- 4. RUN NEW POWER SUPPLY LINES OR USE EXISTING TO ALL NEW EQUIPMENT AS REQUIRED.
- 5. ALL DIESEL PIPES (NEW AND EXISTING) SHALL BE PAINTED DARK BROWN AND LABELED C/W DIRECTION OF FLOW (INCLUDING D. RISERS).
- 6. CONTRACTOR SHALL PROVIDE A TEMPORARY DIESEL TANK INSIDE GENERATOR ROOM DURING THE CONSTRUCTION PERIOD TO ENSURE GENERATOR OPERATION.

ACTUATORS SCHEDULE						
TAG	TYPE	MAKE	MODEL	SIZE	POWER	
MD-1	SPRING LOADED	BELIMO (ACTUATOR)	FSNF120-S	-	120 VAC	

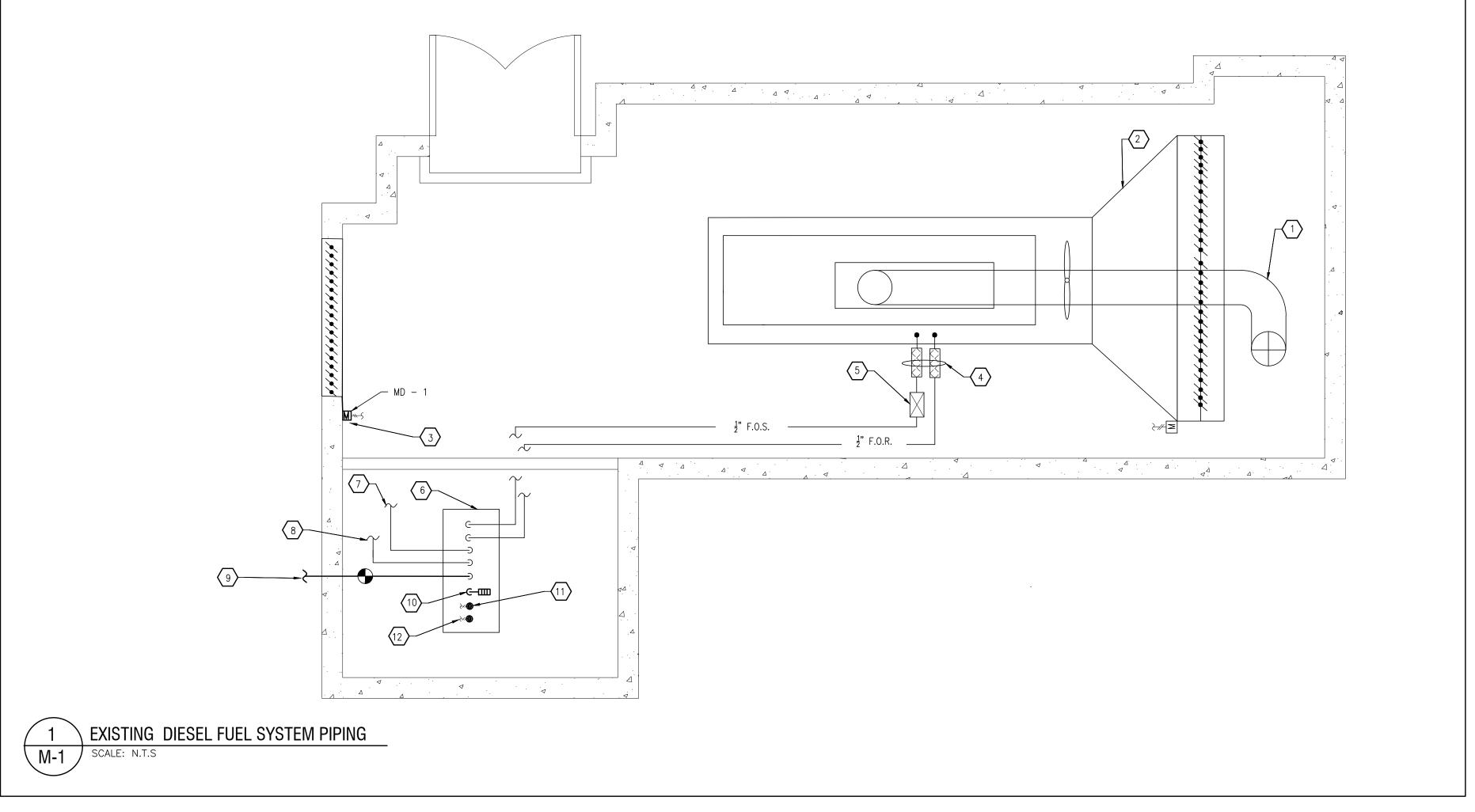
REMARKS SPRING RETURN DAMPER ACTUATOR. ACTUATOR SHALL BE DIRECT COUPLED TYPE WHICH REQUIRE NO CRANKCAM OR LINKAGE AND CAPABLE OF DIRECT MOUNTING. ACTUATOR SHALL BE DESIGNED TO OPERATE FOR CLOCKWISE AND COUNTERCLOCKWISE OPERATION WITHOUT FAILURE. ACTUATOR SHALL BE ULC LISTED AND CSA

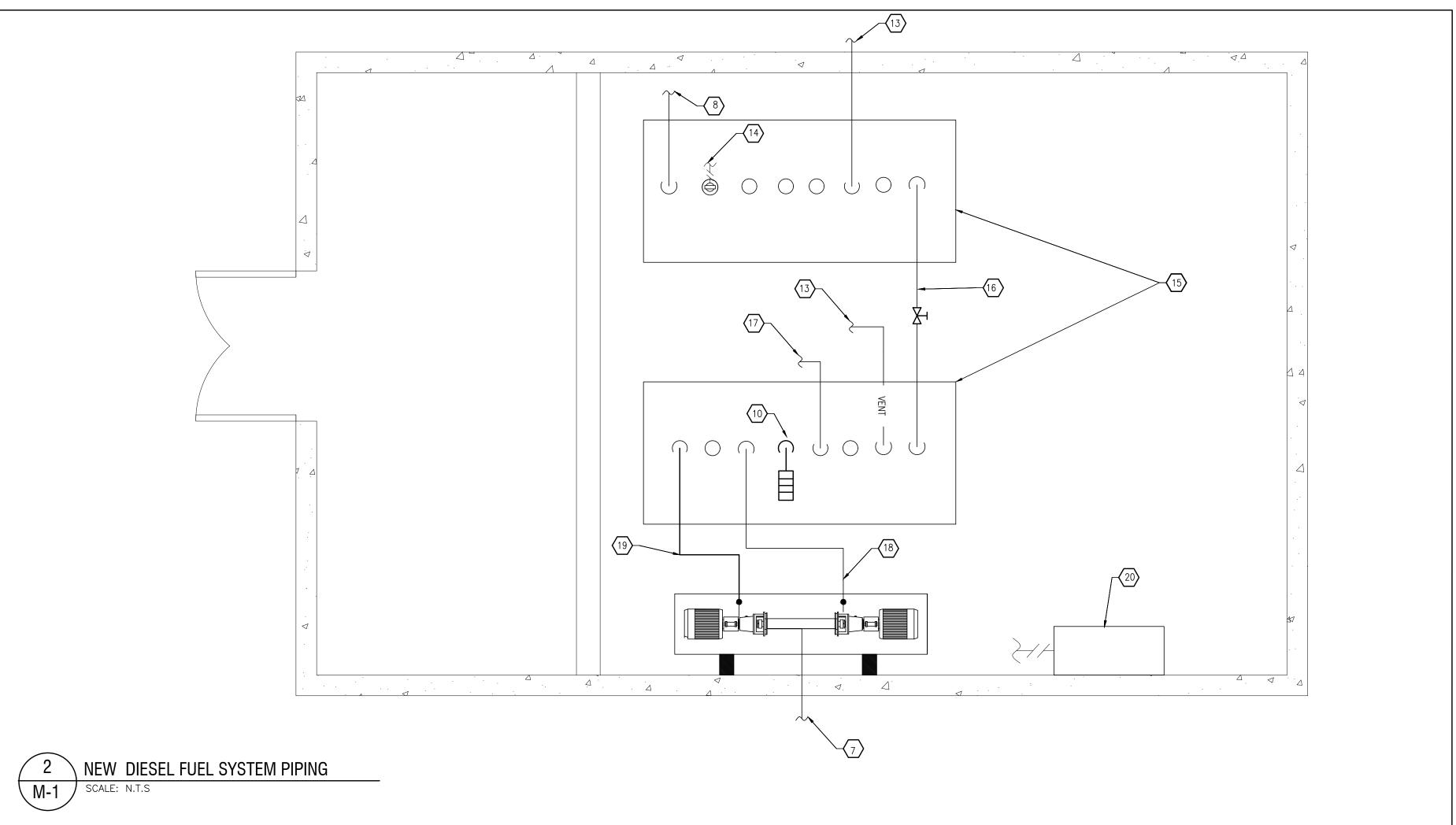
INSTALL ACTUATORS AS PER MANUFACTURER'S RECOMMENDATIONS.
CONTRACTOR SHALL VERIFY ONSITE THE NUMBER OF ACTUATORS NEEDED AND THE POWER SUPPLY AVAILABLE FOR THE DAMPER ACTUATORS. PROVIDE AN ALARM AT INTAKE COMBUSTION DAMPER TO BE TIED DIRECTLY TO F.A PANEL OR GENERATOR TROUBLE. INTAKE DAMPERS TO FAILSAFE OPEN WITHIN 30 SEC.

WORKING NOTES:

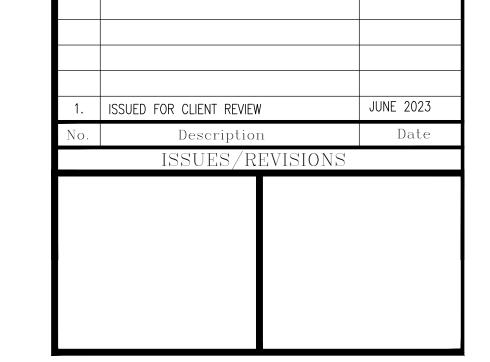
- (1) EXISTING GENERATOR EXHAUST TO REMAIN, BUT ADJUST COMBUSTIBLES AROUND IT TO ENSURE 18" OF CLEARANCE.
- (2) EXISTING GENERATOR TO REMAIN.
- EXISTING INTAKES ACTUATORS TO BE REMOVED AND REPLACED WITH NEW ACTUATORS SPRING LOADED TO FAIL SAFE OPEN WITHIN 30 SEC, CHECK SCHEDULE FOR MORE DETAILS.
- (4) NEW OPW ULC STAINLESS STEEL FLEXIBLE CONNECTION ON FUEL OIL SUPPLY AND RETURN.
- 5 NEW ULC MORRISON FIRE VALVE.
- 6 EXISTING 235L ULC-S602 DAY TANK TO REMAIN.
- (7) EXISTING SUPPLY-LINE FROM THE PUMP TO REMAIN.
- (8) EXISTING RETURN-LINE TO THE MAIN TANK TO REMAIN.
- 9 RUN NEW 2" VENT LINE TO THE OUTSIDE.
- (10) NEW ULC LEVEL GAUGE.
- NEW ULC ALBANY LEVCON 1; CRITICAL HIGH TO BE SET AT 90%.
- (12) NEW ULC ALBANY LEVCON; 4 LEVELS TO BE SET AT 20%, 30%, 50% AND 80%.
- (13) EXISTING MAIN TANK VENT TO REMAIN.
- (14) EXISTING LEVCON 1 HIGH LEVEL TO REMAIN.
- 2 EXISTING 1250L ULC-S601 MAIN TANKS TO REMAIN.
- (16) EXISTING EQUALIZING LINE TO REMAIN.
- EXISTING SPILL-BOX AND FILL-LINE TO REMAIN.
- EXISTING SUPPLY-LINE FROM THE MAIN TANK TO THE PUMP TO REMAIN.

 (19) EXISTING COPPER PIPING FOR PRESSURE RELIEF TO BE REPLACED WITH NEW BLACK MALLEABLE PIPING.
- ② EXISTING PUMP-CONTROL PANEL TO REMAIN.





SYMBOL	DESCRIPTION		
	EXISTING EQUIPMENT/DUCTWORK / PIPING		
	NEW EQUIPMENT / DUCTWORK / PIPING		
1//////	EXISTING DUCTWORK/PIPING/EQUIPMENT TO BE REMOVED		
<i>></i>	PIPE CONTINUATION		
C.T.E.	CONNECT TO EXISTING		
RL	EXISTING EQUIPMENT TO BE RELOCATED RELOCATED EQUIPMENT AT NEW LOCATION		
RE			
E	END CAP		
——F.O.R.—	FUEL OIL RETURN		
—F.0.S.—	FUEL OIL SUPPLY		
— F —	FILL LINE		
— v —	VENT LINE		
φ	GAUGE		
承	ANTI SIPHON VALVE		
\$ —	PRESSURE RELIEF VALVE		
<i>—</i> //—	CONTROL WIRING		
	FIRE VALVE		
- ↓ -	ISOLATION VALVE		
♣	CHECK VALVE		
— ****	FLEXIBLE CONNECTION		
	STEEL PIPE SLEEVE WITH FIRE RATED AND/OR WEATHERPROOF MATERIAL		





PROJE	СТ		

DIESEL FUEL SYSTEM UPGRADE

A.S.

DRAWING TITLE

CHECKED

JUNE 2023 PROJECT NO.

DATE

JUNE 2023

SCALE

N.T.S

MF23040

MECHANICAL

DRAWING NO.

DESIGNED A.S.

M-1