ST-01 - FO DIESEL STORAGE TANK

Capacity:	40,000 L
Dimensions:	4000 mm Diameter x 4000 mm high
Design Pressure:	ATM
Design Temperature:	Ambient

FPF - FUEL POLISHER FILTER

Housing Type:	27 / 108
Housing Material:	1.2 l/s
Cartridge Type:	Cellulose Depth Type
Cartridge Material:	Cellulose
Mesh Size:	3 Micron

DMF - DIESEL MONITOR FILTER

Housing Type:	HCFM 220/3 DD
Housing Material:	SS
Cartridge Type:	Cellulose Depth Type
Cartridge Material:	Cellulose/Water Absorbing
Mesh Size:	5 Micron

FFP - FUEL FORWARD PUMP

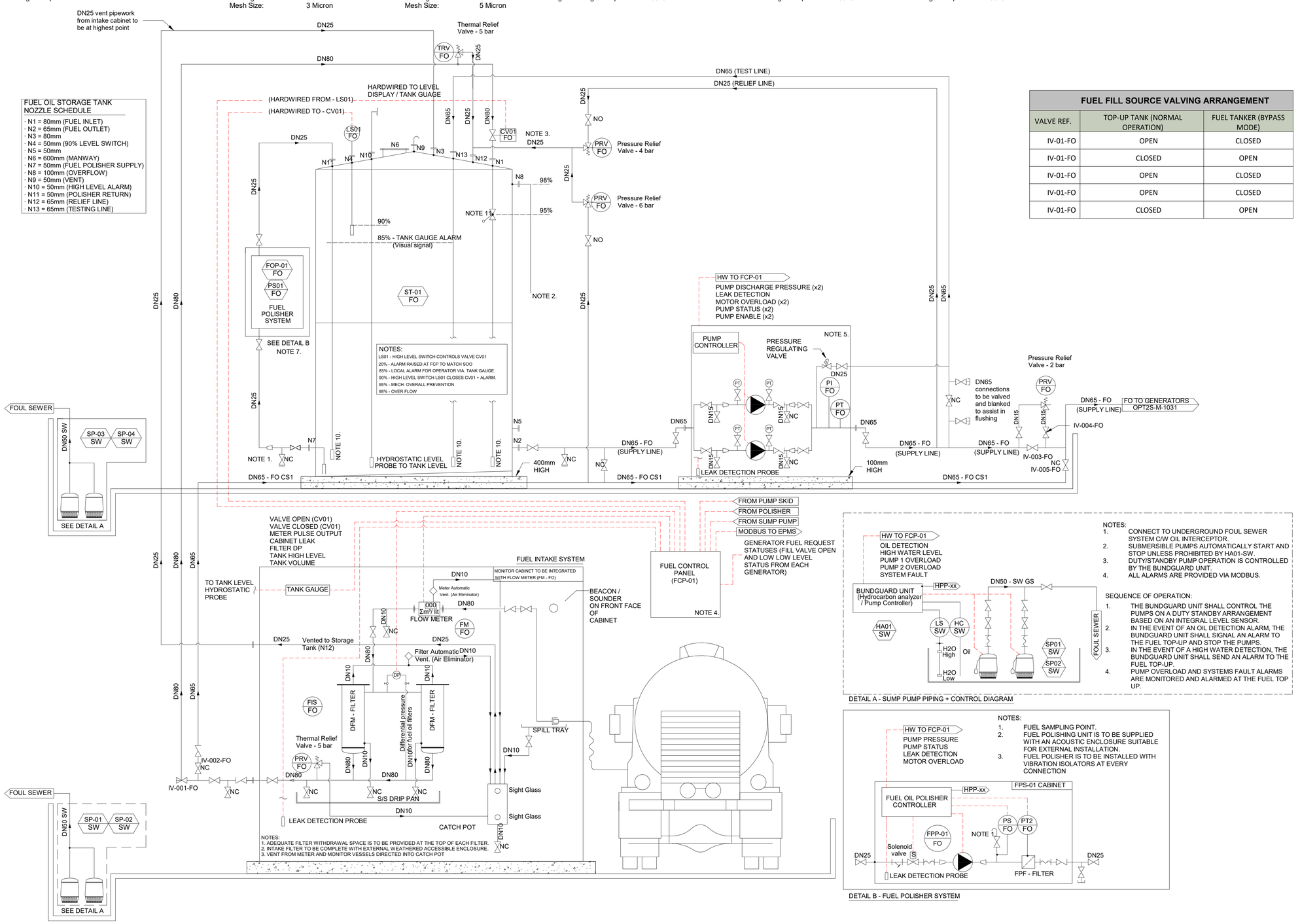
Type:	End Suction, Centrifugal pump
Capacity:	25 m³/h
Differential pressure:	4 Bar
Design Temperature:	55°C

FPP-01 - FUEL POLISHING PUMP

Type:	Gear
Capacity:	1.26 m³/h
Differential pressure:	2.6 Bar
Design Temperature:	55°C

SP01-SW / SP02-SW /SP03-SW / SP04-SW SUMP TRANSFERS PUMP

Type:	Submersible
Capacity:	1.26 m³/h
Differential pressure:	1 -10 m
Design Temperature:	55°C



FUEL FILL SOURCE VALVING ARRANGEMENT

VALVE REF.	TOP-UP TANK (NORMAL OPERATION)	FUEL TANKER (BYPASS MODE)
IV-01-FO	OPEN	CLOSED
IV-01-FO	CLOSED	OPEN
IV-01-FO	OPEN	CLOSED
IV-01-FO	OPEN	CLOSED
IV-01-FO	CLOSED	OPEN

DETAIL A - SUMP PUMP PIPING + CONTROL DIAGRAM

DETAIL B - FUEL POLISHER SYSTEM

NOTES

GENERAL NOTES

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
2. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRODUCTION OF FABRICATION AND INSTALLATION DRAWINGS, SHALL BE FAMILIAR WITH OTHER WORKS PACKAGES WHICH DIRECTLY INTERFACE WITH HIS PACKAGE AND COORDINATE WITH THE FABRICATION AND INSTALLATION DRAWINGS ACCORDINGLY.
3. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, SUPPLY AND INSTALLATION OF SUPPORTS, BRACKETING SYSTEMS, AND SECONDARY STEELWORK SUPPORTS REQUIRED FOR THIS WORKS PACKAGE, UNLESS OTHERWISE STATED.
4. SHOULD ANY DISCREPANCIES BE APPARENT IN THIS DRAWING, THE ENGINEER SHALL BE MADE AWARE OF THIS FOR FURTHER ACTION.

SHEET NOTES

1. SAMPLING POINT.
2. OVERFLOW PIPE PIPED TO LOW LEVEL.
3. FILL VALVE INTERLOCKED WITH TANKS LEVEL INSTRUMENT.
4. FUEL OIL CONTROL PANEL TO BE LOCATED OUTSIDE THE TANK BUND. REFER TO M-8015 FOR LOCATION
5. PUMPS TO BE PROVIDED WITH AUTOMATIC AIR VENTS.
6. UNDERGROUND PIPING TO BE DOUBLE CONTAINED.
7. DIESEL POLISHER TO BE ENCLOSED WITH A REMOVABLE SHEET METAL ENCLOSURE FOR WEATHER PROTECTION.
8. DIESEL MONITORING SKID TO BE ENCLOSED WITH A METAL ENCLOSURE (304 SS) FOR WEATHER PROTECTION.
9. COMPONENTS TO BE SUPPLIED AS PACKAGE c/w S/S ENCLOSURE FOR OUTDOOR INSTALLATION.
10. ANTI-SIPHON DEVICES ON INLET TO STORAGE TANKS.
11. MECHANICAL OVERFLOW PREVENTION VALVE
12. BMS CABLING ROUTE FROM FUEL COMPOUND TO BE INSTALLED ON CABLE RACKING. TO BE COORDINATED BY GC ON SITE.
13. HYDROSTATIC PRESSURE TESTING TO BE CARRIED OUT FOR ALL FUEL OIL PIPEWORK. GC TO COORDINATE NECESSARY HEALTH AND SAFETY REQUIREMENTS PER LOCAL REQUIREMENTS

REV.	DATE	DESCRIPTION	DRN	ENG	CHK	APP
C	04 MAR '22	DETAILED DESIGN	JJ	MS		

MECHANICAL ENGINEER: ADSIL	ELECTRICAL ENGINEER: ADSIL
CIVIL ENGINEER: ARUP	STRUCTURAL ENGINEER: ARUP
ARCHITECT: ARUP	OTHER ENGINEER: ARUP

PROJECT.: LHR095

TITLE.: DIESEL STORAGE SCHEMATIC

DRAWING NO.: LHR095-AWS-01-XX-DR-M-1030

A1	SCALE: As indicated	AGILE No.: 800-047095-001	REV: C