ENGINE COOLING WATER SYSTEM-CONTROL

SEQUENCE OF OPERATION

NORMAL OPERATION (RIVER WATER)

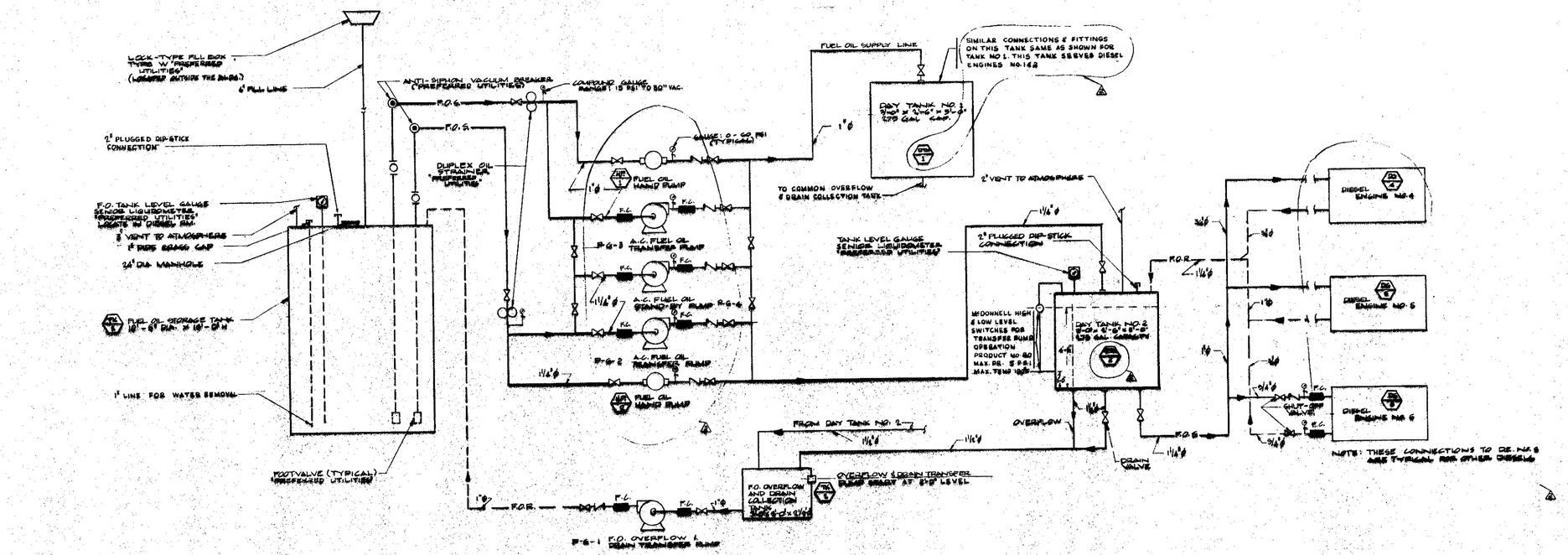
AS ANY ONE OF THE ENGINES STARTS, EITHER AUTOMATICALLY OR MANUALLY, IT OPENS ITS RESPECTIVE AUTOMATIC
V1, V2, ETC. TO MINIMUM POSITION AS SET BY A GRADUAL SWITCH, AND AUTOMATICALLY STARTS RIVER WATER PUM
V-8 REMAIN OPEN, WHILE VALVES V-10 & V-9 REMAIN CLOSED. THE VALVES V1, V2, ETC. WILL MODULATE TO PRO
ON THE CONTROL OF THERMOSTAT IN WATER LINE LEAVING THE HEAT EXCHANGER. SIMULTANEOUSLY ANY ENGINE
START DIESEL ENGINE ROOM VENTILATION. CONTROL OF VENTILATION SYSTEM IS UNDER OTHER

EMERGENCY OPERATION (CITY WATER)

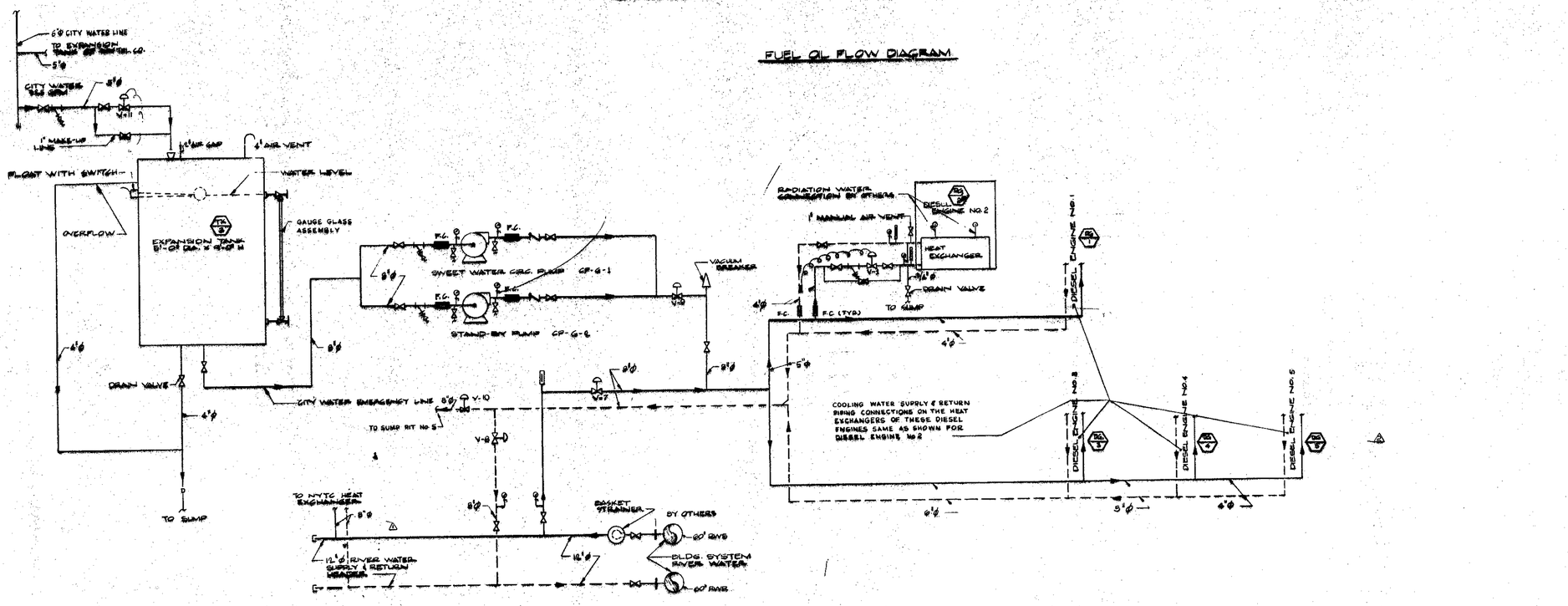
ENGINE STARTING OPENS ITS RESPECTIVE AUTOMATIC VALVE V1, V2, ETC. UNDER CONTROL AS ABOVE,
TICALLY STARTS SWEET WATER PUMP P1 OR P2, WHEN THE RIVER WATER IS NOT AVAILABLE. VALVES V
V-8 OPEN WHILE VALVES V-7 & V-8 REMAIN CLOSED. AUTOMATIC VALVE V-11 MAINTAINS THE W
IN THE TANK. CHANGE OVER BETWEEN NORMAL AND EMERGENCY OPERATION BY MEANS OF A MANUA
SWITCH.

MAKE-UP WATER

A FLOAT SWITCH LOCATED IN THE EXPANSION TANK MAINTAINS THE WATER LEVEL IN THE TANK WHEN
EMERGENCY OPERATION IS OFF.



FUEL OIL FLOW DIAGRAM



ENGINE COOLING WATER FLOW DIAGRAM

CONTRACT BID DRAWING DATE MAY 1, 1970

NO.	DATE	DES.	BY
1	12-1-70		A.G.
2	7-15-70		A.G.

REVISIONS

[redacted]

CHIEF, PLANNING DIVISION
DATE

THE WORLD TRADE CENTER
THE PORT OF NEW YORK AUTHORITY

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MECHANICAL ENGINEERS

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RAILS, UTILITIES, FOUNDATIONS

TITLE: FLOW DIA

DRAWN	P.C.M.
SCALE	NONE
PROJECT NUMBER	600-00
DRAWING NUMBER	M-