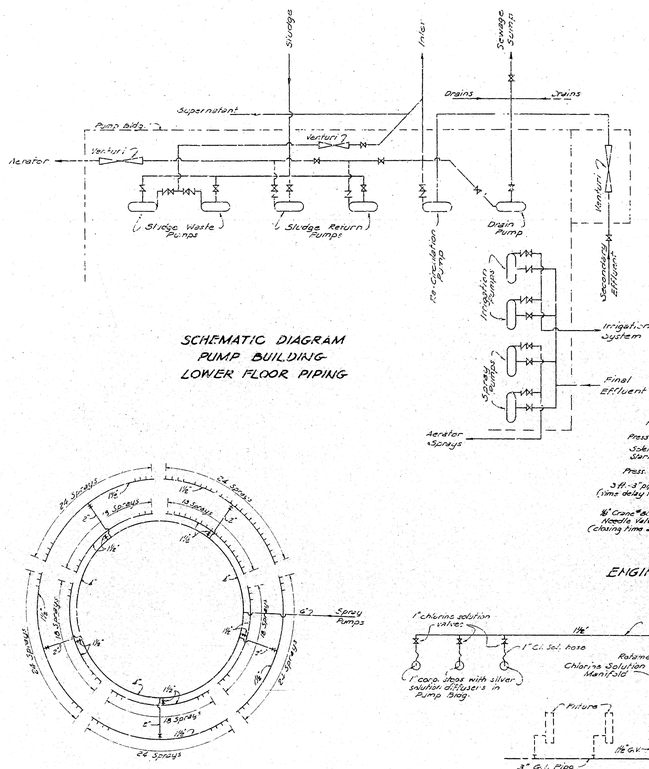
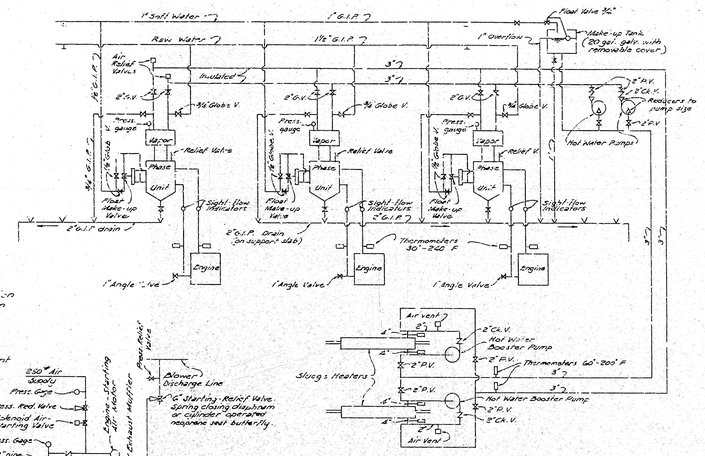


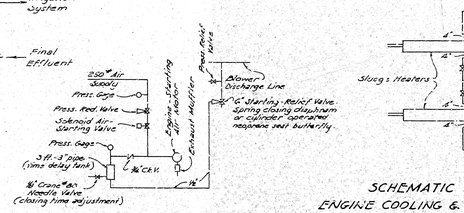
SCHEMATIC DIAGRAM
PUMP BUILDING
LOWER FLOOR PIPING

Note: All valves on Spray Lines to be Globe Valves

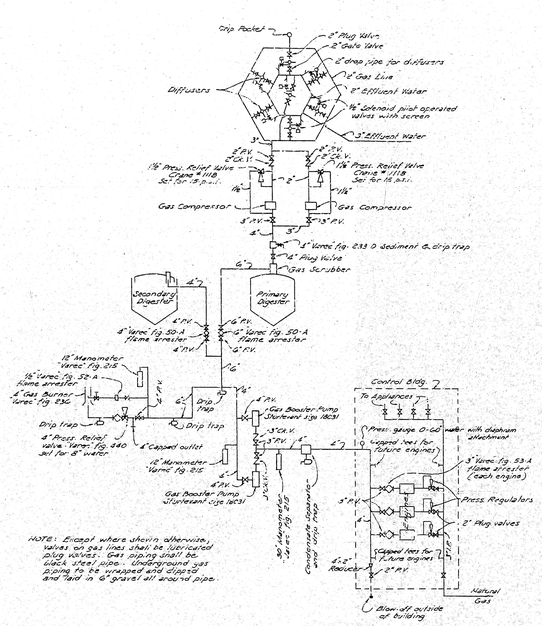
SCHEMATIC DIAGRAM
AERATOR SPRAYS



SCHEMATIC DIAGRAM
ENGINE COOLING & SLUDGE HEATING

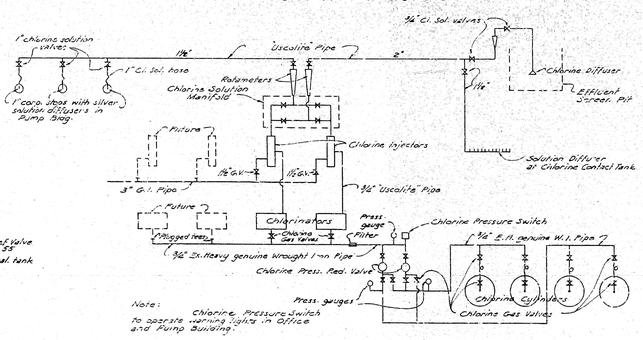


SCHEMATIC DIAGRAM
ENGINE STARTING AIR SYSTEM.



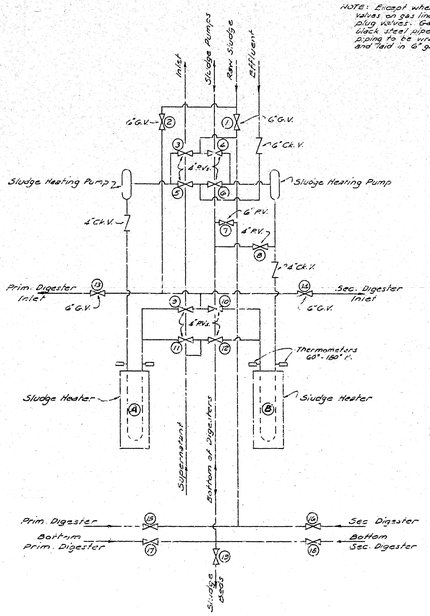
NOTE: Except where shown otherwise, valves on gas lines shall be lubricated plug valves. Gas piping shall be black steel pipe. Underground gas piping to be wrapped and dipped and laid in 6" gravel all around pipe.

SCHEMATIC DIAGRAM
GAS SYSTEM



Note: Chlorine Pressure Switch to operate warning lights in Office and Pump Building.

SCHEMATIC DIAGRAM
CHLORINATION



SCHEMATIC DIAGRAM
SLUDGE HEATER PIPING

SLUDGE HEATER OPERATION

(Refer to Schematic Diagram)

NORMAL OPERATION - ① - ⑬ & ⑮ or ⑭ & ⑯
Heater A - ③ - ⑤
Heater B - ④ - ⑥

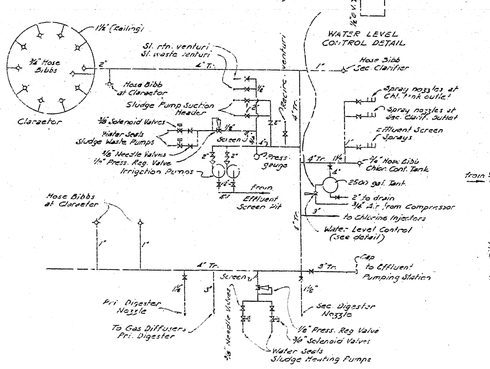
NORMAL OPERATION - Using Suction from Bot. of Digesters - ① - ⑦ - ⑬ & ⑦ or ⑭ & ⑧
Heater A - ③ - ⑤
Heater B - ④ - ⑥

COOLING WITH EFFLUENT -
Heater A - ③ - ⑦
Heater B - ④ - ⑧

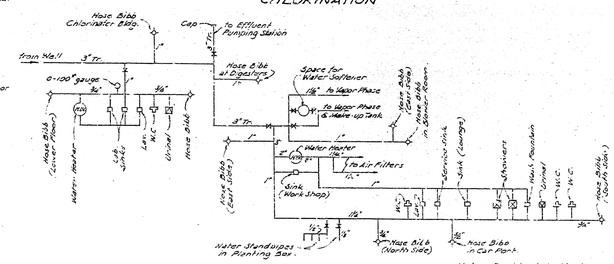
BYPASS HEATERS - ② - ⑬ or ⑭

FLUSHING SLUDGE BED LINE - ② - ⑧ - ⑬

NOTE: All valves are closed except those shown for the particular operation.



SCHEMATIC DIAGRAM
EFFLUENT WATER



Note: Provide shut off valves at all fixtures

SCHEMATIC DIAGRAM
FRESH WATER

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SCHEMATIC DIAGRAMS | 25