

ENGINE ROOM PLAN
SCALE: $\frac{3}{8}" = 1'$

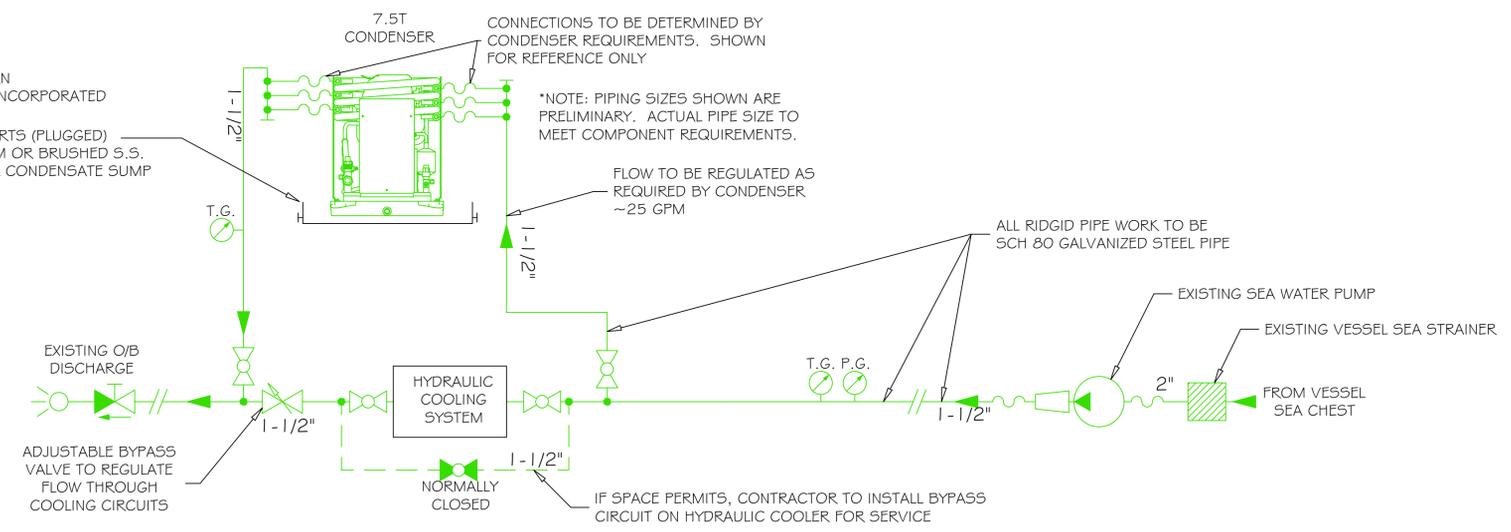
PIPING SYSTEM IDENTIFICATION COLOURS			
LINE	MAIN MEDIA	MARKING	SPECIFIC MEDIA
	SEA WATER		SAMPLING SEA WATER
			GN - YEO - GN

PIPING SYSTEM CONVENTIONAL SIGNS					
PIPE	DIRECTION OF FLOW	CROSSING PIPES, NOT CONNECTED	CROSSING PIPES, CONNECTED	PIPE TEE	PIPE ELBOW
WATERTIGHT TRANSIT	NON-WATERTIGHT TRANSIT	PIPE GOING UPWARDS	PIPE GOING DOWNWARDS	REDUCE / ENLARGE PIPE SIZE	
BALL VALVE NORMALLY OPEN	BALL VALVE NORMALLY CLOSED	GLOBE VALVE, NORMALLY OPEN	GLOBE VALVE, NORMALLY CLOSED	CHECK VALVE	
GLOBE VALVE, STRAIGHT	GLOBE VALVE, ANGLE	THREE-WAY L-PORT VALVE	THREE-WAY T-PORT VALVE	BUTTERFLY VALVE	
PUMP	FLANGE CONNECTION	FLEXIBLE HOSE	FLEXIBLE BELLOW(S)	STRAUB-TYPE COUPLER	
QUICK RELEASE COUPLER	CAFFED PIPE	AIR PIPE	SIPHON BREAK	TRAP	
SOUNDING OR FILLING FITTING	FILTER OR STRAINER	GAUGE	LEVEL SENSOR	LEVEL ALARM	

- NOTES:**
- CONNECTION POINTS TO EXISTING PIPING IN THE VESSEL ARE TO BE DETERMINED ON SITE
 - EXISTING VESSEL DRAWINGS ARE INCOMPLETE OR OUTDATED. THE INSTALLER IS TO ENSURE THAT ALL EXISTING CONNECTIONS TO OTHER SERVICES ARE MAINTAINED. PIPING ROUTES AND OR CONFIGURATIONS MAY BE REQUIRED TO CHANGE FROM WHAT IS PICTURED IN ORDER TO ACCOMPLISH THIS
 - THE INSTALLER IS TO PROVIDE AN AS BUILT SKETCH OF THE FINAL SYSTEM TO THE VESSEL FOR ITS RECORDS
 - CONNECTION TYPES TO EXISTING PIPING TO BE DETERMINED BY THE INSTALLER
 - ALL SEAWATER PIPING IS TO BE SCHEDULE 80 GALVANIZED STEEL PIPE
 - EXISTING PIPING IS TO BE EXAMINED FOR CONDITION AND REPLACED IF CORROSION OR EROSION IS EVIDENT
 - INSTALLATION REQUIREMENTS OF THE EQUIPMENT IS TO BE ADHERED TO
 - PIPES AND CONNECTIONS ARE TO BE ARRANGED SUCH THAT COMPONENTS AND EQUIPMENT CAN BE EASILY SERVICED AND REMOVED WITHOUT CUTTING OR ALTERING PIPEWORK
 - CONTRACTOR TO BUILD SUPPORTING BASE(S) FOR CONDENSER, PUMP, AND PIPEWORK AS REQUIRED

- MATERIALS:**
- MAIN PIPING TO BE SCHEDULE 80 GALVANIZED STEEL PIPE
 - VALVES TO BE BRONZE, THREADED OR FLANGED CONNECTION AS SUITS THE PIPING AND INSTALLATION
 - TRANSITION JOINTS BETWEEN OLD AND NEW PIPING ARE TO BE DETERMINED ON SITE BY THE INSTALLER. CONNECTION POINTS ARE TO BE KEPT ACCESSIBLE.
 - PIPING TO BE WELL SUPPORTED AT REGULAR INTERVALS.

CONDENSER TO BE MOUNTED IN DRIP PAN
 - PAN TO BE AS LARGE AS IS FEASIBLE, INCORPORATED INTO SUPPORTING STRUCTURE
 - TO BE PROVIDED WITH 2 X $\frac{3}{4}"$ DRAIN PORTS (PLUGGED)
 - PAN TO BE POWDER-COATED ALUMINUM OR BRUSHED S.S.
 - IF REQUIRED, CONTRACTOR TO INSTALL CONDENSATE SUMP CLOSE TO UNIT



SEAWATER SCHEMATIC
EXISTING PIPING TO BE MODIFIED AND/OR REPLACED TO MATCH THE INTENT OF THE SCHEMATIC SHOWN

REVISION	REVISION DATE	ISSUED BY	CHECKED BY
A: LARGER CONDENSER, CHANGE TO PARALLEL COOLING SYSTEM	AUG 10, 2017		
		DRAWING BY: MD	
			CHECKED BY: MD

CCG VECTOR
HVAC SYSTEM

STATUS	APPROVED BY	REVISION
SHEET# 1/1	FOR REVIEW	REV A
1146-04-507-01 HVAC SEA WATER SYSTEM		

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