PORT

CENTRE

STARBOARD

DRINKING WATER FOUNTAIN

HOT WATER
COLD WATER
SAN. WATER
HOT WATER CIRC.

BRIDGE DECK

OFFICERS' DECK

BOAT DECK

UPPER DECK

MAIN DECK

WASHING MACHINE

ICEMAKER

SINK

LAUNDRY

DRINKING WATER FOUNTAIN

VEG. SINK

DOUBLE SINK

DISHWASHER

HOT WATER BOOSTER HEATER

GALLEY

COLD FOOD SERVING COUNTER

HOT F.W. SUPPLY
COLD F.W. SUPPLY
SANITARY WATER SUPPLY
HOT F.W. CIRC. RETURNS

REFRIGERATION UNITS SEE REF. 7

50 HOSE VALVE WITH LOCKED CAP AND CHAIN. 50ø x 20M. HOSE IN CABINET FITTED NEAR FILLING STATION.

TO CENTRAL COOLING F.W. EXPANSION TANK SEE REF. 7

TRANSFER PUMP

HAND PUMP

TO F.W. GENERATOR SEE REF. 6

TO FEED FILTER TANK SEE REF. DWG. No. 1

FROM F.W. GENERATORS REF. 2

FROM DOM. F.W. PUMPS

BOILER FEED TANK 16.4 M³

FRESH WATER TANK 52 M³

FRESH WATER FILLING LINE

STAINLESS STEEL WASHBASIN LOCATED OUTSIDE OF CONTROL ROOM

DRINKING WATER FOUNTAIN LOCATED IN MACHINERY SPACE

WASH TK

SEWAGE COMP'T

TO O.W.S.

WATER PRESS REGULATOR

PRESSURE SWITCH

DOMESTIC F.W. PRESSURE TANK 0.4 M³

COMP AIR REF. DWG. No. 5

TO BOILER FEED TANK

DOMESTIC F.W. PUMPS

DRAIN

FILTER

FROM SEALECT IN STERNTUBE S.W.

FIREMAIN CONSTANT PRESSURE PUMP

FROM FIREMAIN SEE REF. 3

STERNTUBE PORT

STERNTUBE STBD

STERNTUBE S.W. PUMP

100 MICRON FILTER

BUTTERFLY VALVE

TO FIRE MAINS

ELECT. HEATERS

DOMESTIC HOT WATER PUMPS

CALORIFIERS

AIR SEPARATOR AND PRIMER

BILGE AND BALLAST PUMPS

F.W. DISTILLER FILLING

VACUUM BREAKER

PRIMER

SUBMERSIBLE BILGE PUMP

10 FEEDWATER TREATMENT TANK (SEE REF. 9)

20 PURIFIERS OPERATING WATER

20 F.W. EXPANSION TANK FILLING AUXILIARY GEN SET.

SEWAGE WASH TANK SEE REF 9

BALL JOINT SHOWER HEAD

GOOSE NECK

ON-OFF VALVE

ADJUSTABLE THERMOSTATIC MIXING VALVE

HOT WATER

COLD WATER

PLAN ON MAIN DECK

PLAN ON ENGINE ROOM FLAT

PLAN ON TANK TOP

SELF CLOSING TAPS

HOT WATER

COLD WATER

TYPICAL WASHBASIN ARRANGEMENT

STEEL SEAT & DECK

TYPICAL W.C. ARRANGEMENT

50 HOSE VALVE WITH LOCKED CAP AND CHAIN. 50ø x 20M. HOSE IN CABINET FITTED NEAR FILLING STATION.

LEGEND

SYMBOL	DESCRIPTION
	SCREW LIFT VALVE OR COCK
	SCREW DOWN NON-RETURN VALVE
C	HOSE VALVE
	STRAINER
	PRESSURE GAUGE
	COMPOUND GAUGE
	SOUNDING PIPE
	VENT BALL CHECK VALVE
C	TANK CONTENTS GAUGE (REMOTE READING)
	TANK CONTENTS GAUGE (LOCAL READING)
WB	WASH BASIN
	SHOWER
	W.C.
	RELIEF VALVE
T	THERMOMETER
NF / F	NO FLOW ALARM / FLOW INDICATOR

NOTES:

1. DOMESTIC F.W. PUMPS DISCHARGE COLD DOMESTIC F.W. SYSTEM - HOT DOMESTIC F.W. SYSTEM - PIPING TO BE COPPER TYPE 'K' HARD TEMPER WITH COMPRESSION COUPLINGS. ALL OTHER PIPING TO BE SEAMLESS STEEL ASTM A-53 GR. A SCH. 40 GALVANISED TO 6 MILS. AFTER FABRICATION.
2. PIPE JOINTS 40ø AND ABOVE TO BE FLANGED 150 LB. A.S.A. SMALLER BORE PIPING TO HAVE SCREWED JOINT UNIONS.
3. ALL VALVES TO BE BRONZE WITH BRONZE TRIM.
4. VALVES 40ø AND ABOVE TO BE FLANGED 150 LB. A.S.A. SMALLER BORE VALVES TO BE SCREWED.
5. BRASS DRAIN PLUGS TO BE FITTED AT PIPING LOW POINTS.
6. ALL WASHBASINS, SHOWERS, W.C.'s ETC. TO BE FITTED WITH SHUT-OFF VALVES.

LIST OF MACHINERY

PUMP	No. OFF	CAPACITY	H.P.	R.P.M.
DOMESTIC F.W. PUMP	2	10 M³/HR. 3.5 BAR	5	1750
DOMESTIC HOT WATER PUMP	2	7.5 M³/HR. 1 BAR	1.5	1750
STERNTUBE S.W. PUMP	2	13.6 M³/HR. 3.5 BAR	5	1750
TRANSFER PUMP TO CENTRAL COOLING SYSTEM	1	6.8 M³ HR. 1.7 BAR	1	1750

REFERENCE DRAWINGS:

1. No. 65-10-02 'DIAGRAM - BOILER FEED AND BLOWDOWN'
2. No. 65-10-03 'DIAGRAM - EVAPORATOR SYSTEM'
3. No. 66-40-01 'DIAGRAM - FIRE AND WASHDECK SYSTEMS'
4. No. 67-30-01 'DIAGRAM - AIR AND SOUNDINGS'
5. No. 76-00-01 'DIAGRAM - COMPRESSED AIR SYSTEM'
6. No 65-10-01 'DIAGRAM - STEAM & CONDENSATE' SHT 1 OF 2
7. No. 71-10-01 'DIAGRAM - CENTRAL COOLING'
8. No 65-10-03 'DIAGRAM - FRESH WATER GENERATORS'
9. No 65-50-01 SHT. 1 DIAGRAM SEWAGE & GREYWATER

DISTRIBUTION

DEPARTMENT	QTY.	DEPARTMENT	QTY.	DEPARTMENT	QTY.
Owners		Operations Manager		Shipwright	
Classification		New - Const. Supt.	1	Rigger	
Steamship Inspection		Outfit Supt.		Joiner	
DSS-LOWSITE	1	Repair Supt.		Pipe Fitter	3
		Steel Supt.		Machine Shop	
		Mannings	1		
Hull D.O.	1	Victoria	1R		
Machinery D.O.	1	Lidy		Sheet Metal	
Electrical D.O.	1	Painter		Electric Shop	1
Woodenj Engineer		Welder		Engine Fitter	2

No.	REVISION	BY	DATE
1	ADDED -ISOLATING VALVE AT CARBON DECLORINATOR -WASH BASIN, SHOWER, AND W.C. ON MAIN DECK-STARBD -WASHING MACHINE ON BOAT DECK-STAR -WASH BASIN ON BRIDGE DECK-STARBD WASH BASIN ON BOAT DECK STARBD DELETED -TANK CAPACITIES ADDED AND REVISED -TYPICAL W.C. ARRGT REVISED TO SHOW STEEL SEAT INSTEAD OF WOOD -HYPOCLORINATOR REARRANGED -STEAMING OUT CONNECTION ADDED TO CARBON DECLORINATOR -REFERENCE No 6 ADDED	ERIC	15 4 84
2	CENTRAL COOLING F.W. EXPANSION TANK FILLING LINE DELETED FROM DOM F.W. SYSTEM AND ADDED TO BOILER FEED SYSTEM C/W HAND PUMP REFERENE No 7 AND 8 ADDED CONNECTION ADDED FOR F.W. GENERATOR PRIMING FROM F.W. EXPANSION TANK FILLING LINE	ERIC	25 APRIL 1984
3	ELEC PUMP TO CENTRAL COOLING F.W. EXPANSION TANK ADDED, HYPOCHLORINATOR AND CARBON DECHLORINATOR REMOVED, LINES FROM F.W. GEN. AND DOM. F.W. PUMP AND TO BOILER FEED TANK ADDED. ULTRA VIOLET STERILISER UNITS ADDED, NO FLOW ALARM AND MICRON FILTERS ADDED	KING	24 JULY 1984
4	HOT WATER RECIRC. MODIFIED	KING	AUG. 1 1984
5	EMERGENCY CROSSOVER DELETED	S McC	AUG 29 1984
6	EMERG. STERNTUBE LUB. NOW PIPED INSTEAD OF HOSE CONN. CARBON FILTER ADDED	C.P.	DEC. 13/84
7	ON LINE FROM FIREMAIN CONSTANT PRESSURE PUMP -SDNR. CHANGED TO BUTTERFLY VALVE -20ø BRANCH ADDED	MEC	19 FEB 85
8	LINE FROM AFT SEA CHEST WAS 50ø SL. GLOBE VALVES TO F.W. & SW. PUMPS CHANGED TO BUTTERFLY.	C.P.	MAR. 12 85
9	SEPAPARATE INLET & OUTLET CONN. ON DOM. F.W. PRESS. TANK	C.P.	MAR 21/85
10	SIGHT GLASS DELETED FROM F.W. TANKS AND BOILER FEED TANK STANDBY COOLING ADDED FOR REFRIG. UNITS	C.P.	JUNE 4/85
11	ICEMAKER ADDED ON MAIN DECK AND BOAT DECK	C.P.	AUG. 1/85
12	CONN. TO SEWAGE COMPT ADDED	A McC	20/8/85
13	S.D.N.R. VALVE WAS S.L. VALVE BEFORE CROSSOVER CONN.	C.P.	SEPT. 9/85
14	HOT F.W. TO SEWAGE WASH TK. ADDED	C.P.	SEPT. 18/85
15	F.W. TO SUB-BILGE PUMP ADDED	C.P.	SEPT. 26/85
16	F.W. TO TREATMENT TANK ADDED	C.P.	NOV. 21/85
17	BYPASS VALVE ADDED IN STANDBY REFRIG. COOLING. ALSO PRESSURE GAUGE	C.P.	DEC. 11 85
18	5 MICRON FILTER DELETED	PMH	Dec 20 1985
19	100 MICRON DUPLEX FILTER WAS SIMPLEX	C.P.	FEB. 25/86
20	AS FITTED	C.P.	FEB. 26/86
21	NEW FILTER INSTALLED WITH BY-PASS SHORE WATER SUPPLY LINE TO SYST. VIA BOILER FEED TK LINE ADDED	DS	JAN 94
22	AS FITTED (APPROVED B.S.N. 94-05-31)	R.E.	JUL 94
23	ISOLATING VALVE IN F.W. FILLING LINE TO BOILER FEED TANK REMOVED	DS	JUL 95
24	EMERGENCY SYSTEM INSTALLED	R.C.	DEC 95

Rev. No.	Révisions	Date
App'd/App'n		
Date		

Contractor Entrepreneur

BURRARD YARROWS CORPORATION.

Canadian Coast Guard / Garde côtière canadienne

Vessel Navire: TYPE 1100 NAVAIDS TENDER/LIGHT ICEBREAKER

Drg. Title Dess. titre: MARTHA L. BLACK
DIAGRAM:
DOMESTIC AND SANITARY FRESH WATER SYSTEMS.

Burrard Yarrows Corporation — SHIPBUILDERS, SHIP REPAIRERS, GENERAL ENGINEERS
Vancouver Division: P.O. Box 86098, North Vancouver, British Columbia, Canada V7L 4J8
Victoria Division: P.O. Box 1078, Victoria, B.C. V8W 2S8

DIVISION: VANCOUVER | HULL I.D.B | OWNER'S No. 65-30

TITLE: DIAGRAM: DOMESTIC AND SANITARY FRESH WATER SYSTEMS

APPROVALS	REPRESENTS	DATE	DRAWN: P. KELLETT
D.S.S. LOCAL		1.02.84	CHECKED
OWNER		19-03-84	APPROVED
CCGS3		22-02-84	SCALE: N.T.S. DATE 25 NOV. '83 REV.
LLOYDS		27-02-84	DWG. No. 65-30-01

Date: 25 NOV 83 Scale/Échelle: N.T.S. Rev. 24

Contractor Drg. No. Entrepreneur Dess. N° 65-30-01

C.C.G. Item No.