

## INTRODUCTION

This fonds consists of the corporate records of Upper Lakes Group Incorporated and its subsidiary corporations, specifically Upper Lakes Shipping and ULS Marbulk Limited. ULS is currently the second largest Canadian shipping company operating on the Great Lakes and overseas. The material is relatively recent dating from 1951 to 1971, and 1988.

As an initial accession it holds potential to be one of among our institution's best collections documenting the history and growth of a shipping company whose genesis is surprisingly different from that of other Canadian shipping companies. This difference should prove intrinsic to the fonds intellectual value due to the linkages it can provide within the broader scope of Canadian business history - historic linkages with the purchasers and processors of Canada's primary staple commodity, wheat. ULS moreover, is perhaps best known within the academic (and shipping) communities for its unique contribution to recent labour history. As one of the largest, and oldest shippers on the Great Lakes its records should provide a solid counterpoint for comparative analysis with the fonds of other Great Lakes shipping companies within our archival holdings. This fonds naturally lends itself to the study of transportation history, marine and technology history, and labour history: combined its antecedents within the grain trade, it offers potential for a broad overview of Canadian business history during its most interesting period.

## ADMINISTRATIVE HISTORY

Unlike other shipping fleets created by maritime men who fostered, raised, and nurtured each ship like a new arrival to the family, Upper Lakes Shipping began life very much the unplanned child: and its putative father was the Toronto Elevator Company. The founder, Gordon C. Leitch, had been trained in the grain forwarding business in Manitoba and Toronto. A man of uncanny business acumen, he noticed during the nadir of the early Depression, a unique opportunity in Toronto to service the flour mills located there in a profitable manner. Surprisingly this, the industrial engine of Ontario, had no grain elevators. Prairie wheat was stored in elevators on Georgian Bay, then hauled overland on an as need basis. It was slow and expensive. The key to the concept was the newly expanded Welland canal which would allow larger vessels into the lower lakes: shipping directly from the Lakehead thereby eliminating the overland leg would substantially reduce the cost of wheat. Leitch and his backers quickly built a state of the art elevator on the Toronto waterfront. Situated next door to the city's milling industry they were in the position to service their customers faster and at a higher profit margin than those who continued to haul from Georgian Bay. Unfortunately, the Georgian Bay elevator companies had enough commercial leverage to discourage shipping companies from unloading at the new Toronto Elevator Company. In order to fill his granary Gordon Leitch was forced to the unwonted expedient of buying his own ship, the Sarnian, and in 1931 she became the embryo of Upper Lakes Shipping.

One ship however soon proved woefully inadequate to the task. At this juncture a longtime partnership was forged with the established Chicago grain firm of James Norris. Norris provided the capital to aggressively purchase more vessels and suddenly this sideline to Leitch's grain forwarding business began to grow exponentially. Incorporated in 1932 as the Upper Lakes and St. Lawrence Transportation Company (later shortened to Upper Lakes Shipping), this marked the formal beginning of the company's history. Incredibly, the unpromising commercial climate of the mid 1930s' was no impediment to the company's rapid growth. Leitch's original concept of building an elevator at Toronto provided the engine while James Norris' capital provided the fuel that generated the accelerated expansion of the ULS fleet. From 1931 to 1940 the company increased from one to thirty-four vessels - a mix of canallers and larger bulk carriers, the largest being the 472

foot Victorious.

From their outgrowth as grain merchants Leitch and Norris had succeeded splendidly in a field relatively new to them; creating and operating a fleet of ships. However as grain forwarders they knew better than most the value of elevators for their ability store grain (thereby freeing up ships to continue freighting), and they knew how to site them strategically. The commercial elevators at the seaports of Montreal and Quebec were annual bottlenecks for all the competing fleets, consuming time and profits as they waited to unload outbound wheat. In 1937 Upper Lakes Shipping sidestepped the issue by building their own facility at the small port of Trois Rivieres. It was a return to Leitch's original inspiration for building at Toronto; and the company continued the practice, later purchasing an elevator at Goderich in 1954.

In 1939 Upper Lake Shipping, like most other Canadian merchant fleets made its contribution to the war effort, sending ten canallers to the Atlantic. The enemy sent six to the bottom.

Upper Lakes Shipping's genesis was actually a commercial decision by Toronto Elevators towards vertical integration within the grain forwarding business. And although by 1940 the shipping business had outgrown its commercial forebearer, Gordon Leitch was still a grain merchant bent upon further vertical growth. Beyond shipping and selling wheat, the next step was to process it. The Norris Grain firm was already heavily involved in the huge conglomerate Maple Leaf Mills; so Leitch established a modest agricultural feed mill and called it Master Feeds - a name well known to farmers throughout Ontario. From the beginning the grain business and the shipping business together had been integral to the Leitch/Norris partnership in Upper Lakes Shipping.

In the immediate postwar years Upper Lakes began purchasing larger ships and disencumbering itself of its many 250 foot canallers in anticipation of the new Seaway, which would open in 1959 and allow vessels as long as 750 feet access from the sea to the Lakehead. In 1952 Upper Lakes commissioned its first two new vessels to be built at Port Weller; they were aptly named the James Norris and Gordon C. Leitch. Almost coincident with their launching of their namesakes was the demise of the two founding partners: happily their respective sons - both raised to the business -

continued the partnership with the same strategies of horizontal growth (more shipping capacity) and the vertical integration into complementary industries. In 1956 the company bought Port Weller Drydocks. Then partially jettisoning the old practice of buying older vessels and refitting, the firm began constructing new, purpose built vessels designed to meet specific freight and classification needs. The existing fleet was aging; plus the new competition brought in by the Seaway, and the decision to move into ocean shipping, were the motivating factors behind the investment in new construction.

The move towards ocean shipping in the early 1960s was tentative. The Leitch holding company, Leitch Transport managed the business rather than ULS directly. Cooperative efforts with foreign shippers and off-shore Caribbean companies were set up as pilot projects. Foreign built ocean class vessels were first tried, some purchased, some chartered - such as the Red Wing and Elat respectively. The creation of an ocean going merchant fleet was the next logical step for company growth; however it was precisely at this delicate moment that Upper Lakes met its most formidable business nemesis in the form of the redoubtable and reckless leader of the (Canadian) Seafarers International Union, Mr. Hal Banks. By the early 1960s the SIU completely controlled crewing and stevedoring on both sides of the Great Lakes, and it harboured a particular resentment against Upper Lakes Shipping for its reluctance to cheerfully embrace the SIU when it first entered Canadian waters. Jack Leitch, backed by loyal crews, decided to outmanoeuvre the truculent SIU by signing his people with a rival, more amenable union. The SIU's animosity exploded into open warfare in 1961 with broken contracts and broken heads a regular feature of the contest. The ULS ship Howard L. Shaw was bombed in Chicago harbour. The furore ended with a royal commission and Hal Bank's indictment for criminal activity in 1967. For his standing toe to toe with the union bully, Jack Leitch was acclaimed 'Great Lakes Man of the Year' by his peers in the shipping industry in 1965. The losses incurred during the union war however had disenchanted Leitch's longtime silent partner Bruce Norris, who wished to divest himself of his interest in Upper Lakes Shipping. Finally in 1974 the Leitch/Norris partnership was dissolved. In the process Norris gained full control of the Leitch shares in the milling business - under the umbrella of Maple Leaf Mills - in return Leitch Transport gained full control of Upper Lakes Shipping. From 1974 on ULS operated as a shipping and shipbuilding company solely. Its historic and commercial links with its

own roots, the grain trade, had ended.

The 1970s was a decade of renewal and expansion. The Great Lakes fleet was rejuvenated with fewer, but new, larger, and more efficient self-unloading ships. This was a technology forged largely by Canadians on the Great Lakes: it greatly diminished the cargo turnaround time in harbour. Time saved in port equalled more trips and more profit. Then in 1972 the large Papachristidis fleet was purchased, thus making Upper Lakes the second largest Canadian fleet on the Great Lakes. In 1973 the federal Darling Report required coastal and inland freight moving between Canadian ports to be carried in Canadian bottoms. This stipulation would stimulate the growth of a Canadian ocean merchant marine by guaranteeing cargo routes such as carrying coal from Cape Breton inland. Upper Lakes' seagoing fleet had grown to seven ships by 1975. This included the company's largest vessel the 74,000 ton Phosphore Conveyor. Ironically, with the onset of recession in the early 1980s this very fleet was the first to downsize in order to protect the core of the company's operations on the Great Lakes.

In order to carve a commercial niche in the ultra competitive seagoing trade, company president Jack Leitch determined to capitalize on the Canadian technology of self-unloading equipment by servicing small foreign ports whose harbours had little or no cargo handling facilities, and where the typical ocean bulk carrier was handicapped. ULS Marbulk Incorporated was formally established to manage the surviving and now rejuvenated ocean fleet. It was composed of the seagoing self-unloaders Ambassador, Pioneer, Citadel Hill and the new Panamax self-unloader Nelvana, along with the bulk carriers Thornhill and Richmond Hill (the latter two added in 1993). The 1990s are synonymous with retrenchment, downsizing and creative management - just keep a company afloat (if the reader will indulge the metaphor). In 1990 Upper Lakes Shipping and erstwhile competitor Algoma Central, coordinated management of their bulk carriers under the name of 'Seaway Bulk Carriers'. In 1993 Seaway Bulk Carriers acquired fifteen bulkers from Canada Steamship Lines, Misener Shipping, and Pioneer Shipping. It was a calculated risk: some of the vessels have proved capable carriers, some not. As of 1995/96 the Upper Lakes Shipping Great Lakes fleet comprises seven self-unloaders and nine bulk carriers. ULS Marbulk's ocean fleet consists of four self-unloaders and two bulk carriers. Port Weller Drydock, currently the only viable

shipyard on the Canadian lakes is crowned with Canadian Shipbuilding and Engineering.

## SCOPE AND CONTENT NOTES

### Introduction

The Upper Lakes Shipping fonds consists of the records of two branch corporations of Upper Lakes Group Incorporated: Upper Lakes Shipping, and ULS Marbulk Limited.

### Arrangement

The collection at present consists of one accession arranged into two subgroups, the primary division based upon medium with manuscript material forming the first part and graphic material in the form of ship plans comprising the second part.

Within the manuscript subgroup three series were defined: Series A Fleet Operations (**Great Lakes**); Series B Ocean Shipping; and Series C Engineering. This series organization was largely determined by the principle of preserving original order and hopefully reflects as accurately as possible the company's operations. This subgroup totals approximately 12.75 cubic feet of material. The overall date range being 1951-1971, 1988.

The ship plan subgroup consists of approximately 33 cubic feet of graphic material which translates into almost 2550 plans by count. These plans are almost exclusively blueprints (folded). Following ship register convention, the plans are primarily arranged alphabetically, according to vessel name. At the item level, the individual plans were often numbered by the company. They have remained in this order, and are listed thus. Where no company number was found the plans were assigned item level numbers from .1 onwards. Full accession numbers have been assigned at the archivist's discretion - each box being allotted a main tripartite number, then each item's own number concatenates to this to form a four element accession number for each plan. (Thus plan .23 in box 1995.26.25 is fully identified as plan 1995.26.25.23).

### Provenance

All material was created by Upper Lakes Group Incorporated or its antecedents. The fonds was donated to the Marine Museum of the Great Lakes at Kingston by Upper Lakes Shipping of

Toronto and St. Catharines, Ontario.

### Restrictions

All currently received records are open.

### Copyright

Copyright to all materials, manuscripts, drawings, and photographs has been transferred in toto to the Marine Museum of the Great Lakes at Kingston.

### Finding Aids

A detailed inventory is available in bound hardcopy. The fonds can also be accessed on the Internet via Queens University's Stauffer Library system. Once in the Marine Museum's database use the command 'K=archival Upper Lakes Shipping' to extract the fonds.



## Series A Fleet Operations

This series represents the activities of one of the four current departments comprising Upper Lakes Shipping's **Great Lakes** Operations Division, to wit: Fleet Research and Development; Engineering; Marketing (Freight); and **Fleet Operations**. Fleet Operations is responsible for all aspects of the day to day running of the company fleet, typically: crew personnel; harbour information and liaison; trip reports or logs, recording the vessels' freight trips and their relative performance; overseas charter operational files; accident reports; pilotage and canal fees; wharfage and stevedoring; ship surveys and certifications; and general fleet correspondence. Records created by executive officers from this department may also be included in the series.

Remark that the **deep sea** vessels belonging to the ULS shipping group are also managed by a Fleet Operations department with corresponding duties and similar records. However, the ocean fleet belongs to a distinct corporate entity, ULS Marbulk Ltd., and is therefore described in a separate series.

To date, records have been received representing only a portion of this department's responsibilities. However the records in hand have been determined as belonging to specific subsets or subseries, which reflect a particular aspect of the department's activities set out above. Respect du fonds was a principle followed as far as practicable; however since a relatively small sample of this department's output has been accessioned, some archival interpretation was inevitable. Strictly speaking these are artificial subseries, exhibiting some degree of imposed order. Two subseries were created: Ports and Harbours; and Trip Reports. Subseries descriptions precede their respective unit lists within the corpus of the finding aid.

This series' date range is 1959-71, and 1988. It currently comprises two cubic feet.

Series A Fleet Operations

Subseries I Port and Harbours

This subseries is comprised of reference files on ports and harbours to which ULS operated. These ports are both national and international. The material consists of harbour charts, water lot plans, related correspondence, drawings of wharves and their cargo loading facilities, and photographs of the particulars. The units are organized alphabetically by port and the date range is 1959-71. The material comprises 1 cubic foot.

Series A Fleet Operations  
 Subseries I Ports and Harbours

1995.26.1

1965 Houston, Texas  
 nd. Montreal, Quebec  
 1966 Morehead City, North Carolina (Two files)  
 1964 Norfolk, Virginia  
 1962 Oshawa, Ontario  
 1962 Oswego, New York  
 n.d. New Orleans, Louisiana  
 1964 Panama Canal  
     n.d. Pensacola, Florida  
     1962 Port Cartier, Quebec  
     1964 Port Hawkesbury, Port Tupper, Nova Scotia  
 Ontario  
 n.d. Quebec City, Quebec  
 1962 Rochester, New York  
 1964 Rio de Janeiro, Brazil  
 1959-71 Rotterdam, Netherlands  
 n.d. Scotland  
 1965 Toronto, Ontario

1964 Newport News, Virginia

n.d. Parry Sound - Depot Harbour, Ontario  
 1960 Port au Port, Quebec  
 1963 Port Credit, Ontario  
 1963 Port Hope,  
 n.d. Presque Isle, Michigan

Series A Fleet Operations  
Subseries II Trip Reports

This subseries consists of trip reports called Speed Charts, organized according to vessel and the Seaway sections it passed through enroute. These lists were kept by each master or first mate of a ULS vessel for each trip - for which the passage of each Seaway section was timed and logged. A separate speed chart was kept for each seaway section, thus each vessel maintained a series of speed charts documenting each stage of its route and providing an analysis of its overall performance. Each file in the subseries contains reports for the whole fleet; the items are organized internally by ship name and date. All records date to 1988 and comprise one cubic foot of material.

Series A Fleet Operations

Subseries II Trip Reports 1995.26.2

[The speed charts for each operating ULS vessel are keyed according to its trip number. Each chart dated per diem]

1988 Speed Charts April/May

1988 Speed Charts June/July

1988 Speed Charts August/September

1988 Speed Charts October/November

1988 Speed Charts December

## Series B Ocean Shipping

Upper Lakes Shipping has been engaged in oceangoing shipping since the early 1960s, first on a tentative basis with ships such as the Wheat King which had an ocean going Lloyd's classification; then later on a more committed scale with the Inverewe and Elat. Ocean shipping was from the beginning run as a business entity separate from ULS's Great Lakes fleet: first via the wholly owned subsidiaries Leitch Transport and Maple Leaf Mills, which first piloted cooperative seagoing efforts with foreign shippers and then established off-shore ULS subsidiaries such as Gulf Stream Trading of Bermuda, and Technibulk Shipping of the Bahamas. These ocean going vessels often found themselves chartered to other shippers when business dictated. There were also some ULS ships in the Great Lakes fleet which had ocean going classifications - such as the Cape Breton Miner - their ocean excursions were run directly by ULS. Currently (1996) a separate corporate entity, ULS Marbulk Limited, manages the ocean going fleet of six ships.

The history of ULS ocean shipping determines the establishment of two subseries which reflects the operations of the corporation on the high seas: Overseas Charters; and ULS Marbulk Shipping. Our present accessions belong to the first of these subseries as described below. The series' material dates to 1966-67 and totals 3 cubic feet.

Series B Ocean Shipping  
Subseries I Overseas Charters

Leitch Transport, a branch of ULS entered into a seagoing venture with Technibulk Shipping Ltd. of Nassau, Bahamas in 1966 -the agreement lasting until at least 1969. This small company was incorporated in Nassau in 1966 with five shareholders and one chartered seagoing ship, the Elat. (Chartered from Zim Israel Ltd.) Its charter was to operate as a deep sea international shipper; it came into partnership with Leitch Transport who would manage and operate the vessel on behalf of Technibulk. Control of a majority of shares was turned over to three officers of Leitch Transport and it became in effect a subsidiary of ULS: a branch office was opened in Toronto. (Note that this vessel, unlike Inverewe, was never owned by ULS, and thus does not show up on any fleet list). This venture had as an antecedent the seagoing operation of the Inverewe (ca 1962-68) which was also run under the auspices of an Caribbean subsidiary, the Gulf Stream Trading Company. One file documenting Voyage 2 of Inverewe is included in this subseries as well as one file for the charter trips of the Phosphate Conveyor: Note that these latter two vessels **were** owned directly by ULS.

The following files document the establishment of Technibulk Shipping and its agreement with Leitch Transport. Included are all of the Elat's log abstracts and trip reports for 1967. Of primary importance is the Elat Itinerary for 1967 which gives a synopsis of its activities for the year. These activities are fully documented in the subsequent **Voyage Files**, titled according to voyage number and departure and destination ports. These files contain: copies of vessel charter from Zim Israel Ltd.; correspondence, including telexes; bills of lading; manifests; log abstracts; Port Logs and Statements of Facts; port charges including stevedoring; tug charges; demurrage documents; freight contract documents; invoices to freight customers; purchase orders and invoices ongoing for repairs and supplies; pilotage fees; debit and credit notes; canal and custom documents; accident reports and legal protests; cost account working papers; miscellaneous accounting documents; miscellaneous plans; and Voyage Result Statements (ie: **financial statements** for a given trip). The subseries comprises 3 cubic feet of material all dating to 1966-67.

## Series B Ocean Shipping

## Subseries I Overseas Charters

1995.26.3

- 1966-69 Documents of incorporation of Technibulk Shipping, Memorandum of Agreement with Leitch Transport, Corporate Information Return
- 1967 Logs of Elat. Also overall sailing itinerary for 1967: both ocean going and Great Lakes trips (**this elaborated in all following Trip Reports**).
- 1967 Munch Cranes file.(Unloading equipment for Elat)
- 1966 Elat Voyage 1. Ordez to Mobile, iron ore (two files)
- 1966 Elat Voyage 1. Ballast Leg. Mobile to Tampa
- 1966 Elat Voyage 2. Tampa to Contrecour, Quebec. Phosphate. (two files)
- 1966 Elat Voyage 3. Duluth & Montreal to Rotterdam. Grain. Rotterdam to Duluth in Ballast. (Two files)
- 1966 Elat Voyage 4. Duluth and Baie Comeau to Amsterdam. Grain. (two files)

## Series B Ocean Shipping

## Subseries I Overseas Charters

1995.26.4

- 1966 Elat Voyage 5A. Duluth and Fort William to Rotterdam. Grain. (Two files)
- 1967 Elat Voyage 5B. Dunkirk to Detroit and Chicago. Steel. (Two files)
- 1967 Tecknibulk Shipping Ltd. Bunkers - Elat. [Fuel and oil bunkering voyage summaries and invoices]
- 1967 Elat. Voyage 6A. Chicago and Montreal to Antwerp. Grain. (Two files)
- 1967 Elat Voyage 6B. Sept Iles to Baltimore. Iron ore.(Two files)
- 1967 Elat Voyage 7. Norfolk to Tobata. Coal. (Two files)
- 1967 Elat Voyage 8. Newcastle to Tobata. Coal.(Two files)

## Series B Ocean Shipping

## Subseries I Overseas Charters

1995.26.5

- 1967 Elat Voyage 9. Wakayama to Guayamas (Mexico) to Antwerp. Sorgham.(Two files)
- 1967 Elat Voyage 10. Detroit and Quebec to Kawasaki (Japan). Scrap metal.(Two files)
- 1967 Elat Voyage 11. Beaumont (Texas) to Rotterdam. Grain.(Two files)
- 1967 Elat Voyage 12A. Antwerp to Chicago. Steel coils.(Two files)
- 1967 Elat Voyage 12B. Duluth and Three Rivers to Rotterdam. Grain. (Two files)
- 1966 Inverewe Voyage 2 Hickey Crane Claim. [re: insurance claim for damage to a crane used aboard Inverewe in 1966.
- 1970-72 Charter of Phosphate Conveyor via Technibulk Shipping to Celotex Corporation. Telexes documenting negotiations for charter agreement.



## Series C Engineering

The Engineering series maintains the records of one of four main departments belonging to the company's current Operations Division. The Engineering Department was located at St. Catharines, distinct from the corporate headquarters in Toronto. It was staffed by both marine engineers and naval architects. The two disciplines were subsumed under a single department within the corporate organization of Upper Lakes Shipping, and were responsible for basically the same things: the design, building, refitting, layup, and general maintenance of the company's vessels. The department was headed variously by a "Marine Superintendent", a Vice President of Engineering and Operations, or Vice President Engineering, depending upon the seniority of the individual in charge at the time: records created by these executive officers give an overall picture of the department's operation. The engineers and naval architects also worked closely with the company's shipyard at Port Weller to actualize in steel the plans and strategies drawn up on paper in their department. Much of the documentation reflects this dialectic between the engineer and the shipyard personnel in the form of purchase orders, invoices, repair specifications, and correspondence (copies of the financial records being forwarded to the Treasurer and Accounting Division in Toronto). The current accession received from the company assumes a natural division into five subseries: Vice President Engineering, Douglas Harpell; Vice President Engineering, Gerald Stemmler; General Engineering; Shipbuilding; and Ship Repair and Maintenance. Subseries descriptions precede the file lists in this inventory.

The series' date range is 1951-1968, 1972-87 and it comprises approximately 7.75 cubic feet.

Series C Engineering  
Subseries I Vice President, Engineering, Douglas Harpell

This subseries is comprised of the records of the Vice President, Engineering, Douglas Harpell whose tenure in this position lasted ca. 1971-82/83. The material is somewhat disparate in nature, reflecting not only the operations of the St. Catharines Engineering office, but as well, activities now falling within the purview of Fleet Operations. In an earlier corporate incarnation the responsibilities and records of the two departments overlapped to some extent: up to the late 1970s this particular executive officer was not only Vice President of Engineering but also Marine Superintendent. Thus, while the core of the material extends to the maintenance and updating of the fleet vessels and Port Weller drydock facilities (engineering), there are also files which deal with purchasing, personnel, and office administration such as: purchasing; separation forms; a [crew] training programme; crew vacation schedules; St. Catharines office correspondence; and St. Catharines Office Monthly Reports. These latter files are composed of per diem memoranda of the engineers' daily activities - de facto activity/productivity reports. There is also a fleet (fuel and oil) bunkering file. As well there is a small intermixture of records belonging to John Philp, a senior shore engineer who later (1982) became Manager of the Engineering department.

The primary engineering files are organized annually, and then alphabetically, by vessel name. The contents include: work orders; purchase orders for parts and supplies; brochures; engineering correspondence; memoranda; working notes; marine surveys; and winter layup reports.

The material dates to 1977, 1979-83 and comprises 1.75 cubic feet.

## Series C Engineering

Subseries I Vice President, Engineering, Douglas Harpell 1995.26.6

- 1977 Chief Engineers' Contracts [Ship engineers]
- 1977 Second Engineers' Alphabetical Certificate Number [Ship engineers]
- 1977 Fourth Engineers' Alphabetical Certificate Number [Ship engineers]
- 1979 Fire Extinguishing Equipment
- 1979 Gordon C. Leitch
- 1979 Hilda Marjanne
- 1979 Lloyds Register [Surveys]
- 1979 Memorandums sent
- 1979 Memorandums received
- 1979 Montrealais
- 1979 Northern Venture
- 1979 Ontario Power
- 1979 Port Weller Dry Docks
- 1979 Purchasing
- 1979 Quebecois
- 1979 Red Wing
- 1979 St. Lawrence Navigator
- 1979 Transport Maritime [Bunkering]
- 1979 Training Programme
- 1979 Wheat King
- 1979 Vacations: Engineers, 2nd Engineers
- 1980 Dominion Marine Association
- 1980 John Philp. Personal
- 1980 General Work Orders
- 1980 Phospore Conveyor
- 1980 Pointe Noire
- 1980 Port Weller Dry Docks
- 1980 Purchasing
- 1980 Quebecois
- 1980 Red Wing
- 1980 Seaway Queen
- 1980 Separation Forms
- 1980 Sandrin Brothers
- 1980 Frank A. Sherman
- 1980 Shell Oil
- 1980 Training Programme
- 1980 Transport Maritime [Bunkering]
- 1980 Vacations: Engineers, 2nd Engineers
- 1980 Wheat King
- 1980 Work Orders Ship Repair - Toronto Vessels
- 1980 Work Orders Canal Electric - Toronto Vessels

1980 Work Orders Marsh Engineering - Toronto Vessels

1980 Work Orders Fritz - Toronto Vessels

1980 Work Orders - St. Catharines Layup

1980 Work Orders Frasers - Toronto Vessels

1980 Work Orders Miscellaneous - Toronto Vessels

n.d. Reference Files. Self Unloader Equipment

Series C Engineering

Subseries I Vice President, Engineering, Douglas Harpell 1995.26.7

1977-82 Radioisotope Licence  
1980 St. Catharines Office Correspondence  
1981-82 Safety and Security  
1981 St. Catharines Office Correspondence  
1983 St. Catharines Office Correspondence  
1981 St. Catharines Office Monthly Reports  
1982 St. Catharines Office Monthly Reports  
1980 St. Catharines Office Miscellaneous  
1980 Salvage Association  
1981-83 Salvage and Ship Breaking  
1983 Security  
1981 Self Unloaders  
1981-82 Seminars  
1981-83 Shell Canada Correspondence  
1980 Shipbuilding  
1980 Ship Repair Contractors [Reference file]  
1981 Strategic Planning  
1981 Transportation Fuel Recovery  
1981 Transport Maritime du Quebec [Bunkering]  
1981 Transport Maritime du Quebec Correspondence  
1980 Vacation Schedule

### Series C Engineering

#### Subseries II Vice President, Engineering, Gerald Stemmler

This subseries follows thematically and chronologically, Subseries I Vice President Engineering Douglas Harpell. It consists of records from the St. Catharines engineering office of Vice President, Engineering, Gerald Stemmler, who succeeded to the post in 1983/4 and continued to ca. 1991. The material corresponds in nature and organization to the previous subseries but is much less comprehensive - for instance, there are only two vessel engineering files extant - both for the Quetico. The date range is 1986-87 and comprise approximately 0.25 feet.

Series C Engineering

Subseries II Vice President, Engineering, Gerald Stemmler 1995.26.7

1986 Quetico

1987 Quetico

1986 St. Catherines (general file)

1985 Steering Gear Report

1985-86 Wages and Overtime

1986 Water Treatment [Boiler file]

1987 Water Treatment [Boiler file]

1987 Vic's Warehouse [Equipment list]

Series C Engineering  
Subseries III General Engineering

This subseries is comprised of records from the St. Catharines Engineering office and document specifically the ongoing fleet maintenance as directed by the marine engineers of ULS. Original order has been preserved: the records are organized primarily by vessel name, and secondarily by date (with some redundancy from box to box). The records are comprised of specifications, work orders, boiler data, general engineering data, and engineering correspondence. Complementary records may be found in the two Vice President Engineering Subseries I & II. Date range is 1961,1969, 1973-1986; the subseries comprises two cubic feet of material.



## Series C Engineering

Subseries III General Engineering

1995.26.8

[Imposed file titles in brackets]

- 1961 Specifications Hull 47 Canadian Hunter ex- Hamiltonian
- 1984 R. Bruce Angus Reading file
- 1984 R. Bruce Angus Work Orders
- 1976-81 R. Bruce Angus [General Engineering data]
- 1975-84 R. Bruce Angus [Boiler file]
- 1983 Cabot and Chimo [Chimo=stern Hilda Marjanne] Work Orders
- 1983 Hilda Marjanne Work Orders
- 1983 Hilda Marjanne Crankshaft Deflections
- 1973 Hilda Marjanne Dry Dock Reports
- 1975-83 Hilda Marjanne [Boiler file]
- 1981 Hilda Marjanne Work Orders
- 1975-80 Hilda Marjanne [Engineering Correspondence]
- 1982 Hilda Marjanne Work Orders
- 1984 Gordon C. Leitch Reading file
- 1976-83 Gordon C. Leitch [Boiler water file]
- 1978 Gordon C. Leitch [General Engineering & Survey file]
- 1984 Gordon C. Leitch Work Orders
- 1984 Gordon C. Leitch Lloyd's Register of Shipping Laid Up Notation
- 1979 Gordon C. Leitch Work Orders
- 1983 Phosphore Conveyor Conversion to a Self-Unloader
- 1981 Phosphore Conveyor Memorandum: Inspection, Antwerp [2 files]
- 1983 Phosphore Conveyor Telexes from Navios
- 1981 Phosphore Conveyor [Working papers for Antwerp inspection and sea trials off Rotterdam]
- 1982 Phosphore Conveyor Report on Sea Trials. Rotterdam
- 1969 Phosphore Conveyor [Electric Schematics]
- 1984-85 Red Wing Reading file (two files)
- 1975-84 Red Wing [Two boiler files]
- 1983 Red Wing Inventory of Mate's Department
- 1984 Red Wing Work Orders (Two files)
- 1973 Red Wing Drydock Reports
- 1983 Red Wing Crankshaft Deflections
- 1982 Red Wing Work Orders - Layup
- 1977-81 Red Wing Supply Purchase Orders; Work Orders
- 1981 Red Wing Work Orders
- 1985 Frank A. Sherman Reading file
- 1976-82 Frank A. Sherman [Boiler file]
- 1981 Frank A. Sherman Field Survey [of needed repairs]; Work Orders
- 1981 Frank A. Sherman Work Orders
- 1975-81 Northern Venture [Boiler file]

1978 <u>Northern Venture</u> Preventive Maintenance and Diagnostic	Analysis; Work Orders
1985 <u>Wheat King</u> Reading file	
1976-81 <u>Wheat King</u> [Boiler file]	
nd. <u>Ungava Transport</u> Dismantling the Main Engine of the <u>Ungava</u>	<u>Transport</u>

Series C Engineering  
Subseries III General Engineering 1995.26.9

1975-77 Phosphore Conveyor Correspondence  
1975-83 Phosphore Conveyor General (engineering data)  
n.d. Phosphore Conveyor Index for Finished Plans  
1981-86 Red Wing Work Orders  
1981-85 Red Wing General (engineering data)  
1985 Richmond Hill Work Orders  
1982 Seaway Queen Work Orders  
1981 Frank A. Sherman General (engineering data)  
1981 Frank A. Sherman Megger Tests  
n.d. Frank A. Sherman Spare Parts List  
1981-86 Frank A. Sherman Work Orders  
1975-81 Ontario Power General (engineering data)  
1978-81 Ontario Power Miscellaneous Correspondence  
1980-81 Ontario Power Work Orders  
1982-83 Ontario Power Work Orders  
1973 Ontario Power Ignitor Assembly  
1981 Ontario Power Tampa Barge Service  
1985-86 Wheat King General (engineering data)  
1981 Wheat King Megger Tests  
1981-82 Wheat King Miscellaneous Correspondence  
1985-86 Wheat King Work Orders  
1984-86 Fleet Work Orders  
1985 Fleet Work Orders

Series C Engineering  
Subseries IV Shipbuilding

This subseries is comprised of files from the engineering office at St. Catharines. They document the building of new ULS vessels at Port Weller, and the purchase and conversion of vessels, both at Port Weller and other yards. Note that no distinction was made between the professions of naval architect and marine engineer at ULS: both disciplines and were merged under the umbrella of marine engineering. The material includes specifically engineering records such as; specifications, engineering correspondence, progress photographs, progress reports, machinery lists, and calculations for stability and loading. As well there are associated records such as marine surveys and vessel certificates, purchase orders for materials, and general correspondence.

Original order has been observed. Organization is by vessel name (with previous names irregularly recorded); beyond that there is little apparent internal organization. The subseries currently comprises approximately 1.75 cubic feet of material.

Series C Engineering  
Subseries IV Shipbuilding 1995.26.10

1953 R. Bruce Angus. Hull Specification for The Conversion of the Great Lakes Oil Tanker Imperial Redwater to A Great Lakes Ore and Bulk Carrier [R. Bruce Angus] at Collingwood Shipyards.

1953,58 R. Bruce Angus. Spare Propellor, Tail shaft, rudder. [List and correspondence regarding above parts]

1950 R. Bruce Angus. Anchors and Cables - Original Certificates.

1954-56 R. Bruce Angus ex Imperial Redwater. Conversion. [engineering correspondence, sketches, purchase orders for material]

1951-54 R. Bruce Angus ex Imperial Redwater. Conversion. Progress Photographs.[44 black and white photographs both bound and loose. Annotated]

Subseries IV Shipbuilding 1995.26.11  
[Red Wing -ex Imperial Edmonton conversion]

1960 Red Wing. Description of: Major Conversion From T2 Tanker, Imperial Edmonton to Lake Bulk Cargo Carrier.[Working draft and final copy]

1957 Imperial Edmonton Hull Renewals Schedule/Specification

1958 Photographs of T2 Tankers at New Haven. [Eight 5x7 prints]

1959-64 Red Wing. General correspondence

1958-59 Vickers Ocean-Lake Bulk Carrier Correspondence

1961 Red Wing conversion progress photographs.[96 prints=42, 4x5" and 54, 8x10 "; bulk are black and white]

Subseries IV Shipbuilding 1995.26.11  
[Wheat King ex Llandaff conversion]

1971 Thermometers.[Schematics, calculations, and 30 5x7" photographs]

1971 Bowthrusters.[Contents do not match file title; items all regarding fuel availability and modifications required for arctic operation]

1960 Wheat King ex Llandaff Estimated Stability

1960 Wheat King Loading Calculations and Stability

1960 What King ex Llandaff Preliminary Specifications. Conversion to Bulk Carrier for Service on Ocean and Great Lakes. One specification dated July 1960, three other copies dated to October 1960. Including thirteen progress photographs. [Four files]

1975 Wheat King. Inspections.

1976 Wheat King. Machinery.

1959 Llandaff a.k.a. Wheat King. Survey Report

1960 Wheat King. Report of Survey

1975 Wheat King. Contract with Port Weller Drydocks for lengthening of hull.

1957-59 Llandaff. Certificates: Boiler; Load Line; Radiotelegraphy; Hull and Machinery; Canal Certificate; Panama Canal Certificate; Class Certificate; Speed Trials; Compasses;

## Venezualan Tonnage Certificate

## Series C Engineering

Subseries IV Shipbuilding 1995.26.11  
 [Wheat King ex Llandaff]

1957 Transcript for Register. Safety Equipment Certificates.  
 1975 Wheat King. Purchase Orders.[1975 lengthening]  
 1975 Wheat King. Purchase Approvals.[1975 lengthening]  
 1952-57 Llandaff. Registers of Machinery, Chains, Wire Rope, etc.  
 1957-61 Hull 25. Wheat King. [Miscellaneous]  
 1960 Llandaff. Conversion calculations and data to Wheat King.  
 1976 Correspondence. Wheat King. [1977-76 lengthening]

Subseries IV Shipbuilding 1995.26.11  
 [Canadian Olympic. New build at Port Weller]

1976 Canadian Olympic. Progress reports.

Subseries IV Shipbuilding 1995.26.12  
 [Ontario Power]

1965 Ontario Power. Tank Calibrations  
 1965 Ontario Power. Stability Book  
 1965 Ontario Power. Grain Loading Booklet  
 1965 Ontario Power. Report on the Second Trip of the Ontario Power  
 1965 Ontario Power. Report of Inclining Experiment  
 1965 Measured and Calculated Deflections of Ontario Power at Float Off [ie: launching  
 deflections]  
 1967 National Research Council of Canada. Mechanical Engineering Report. Main Hull Girder  
Stresses. Ontario Power.  
 1964 Notes and Recommendations to Avoid Built in Sag in All Welded Ships

Series C Engineering  
Subseries V Ship Repair and Maintenance

Two manners/modes of organization are to be found: in general maintenance files material is ordered primarily by vessel name, secondarily by date; for fleet repair invoices the reverse holds with material filed annually, then alphabetically by vessel name.

Files typically comprised of: engineering correspondence; plan lists; refit modification schedules/lists; refit specifications; surveys; certificates; boiler data; tenders and bids from subcontractors; occasional personnel items; service reports; and copies of itemized invoices for repairs done (invoices being a direct source for refit information).

## Series C Engineering

Subseries V Ship Repair and Maintenance 1995.25.13

[Goderich ex Pathfinder]1964-65 Goderich [engineering correspondence re: refit]1967-68 Goderich [engineering data and sketches re: refit including progress photographs] 28 5x7" black and white

Subseries V Ship Repair and Maintenance 1995.25.13

[Goderich ex Pathfinder]1964 Cape Breton Miner Grain Loading [Booklet]1968 Cape Breton Miner [Correspondence re: refit]1972-76 Cape Breton Miner Lloyd's Certificates1976 Cape Breton Miner Dry Docking and Refits1974 Cape Breton Miner Marine Service Lubrication Chart1976-77 cape Breton Miner Correspondence [engineering]



Series C Engineering  
Subseries V Ship Repair and Maintenance 1995.26.14  
[Repair Invoices for Fleet]

1981 Canadian Ambassador  
1981 Canadian Century  
1981 Canadian Enterprise  
1981 Canadian Highlander  
1981 Canadian Hunter  
1981 Canadian Leader  
1981 Canadian Navigator  
1981 Canadian Pioneer  
1981 Canadian Progress  
1981 Canadian Prospector  
1981 Canadian Transport  
1981 Cape Breton Miner  
1981 Frank A. Sherman  
1981 Gordon C. Leitch  
1981 Hilda Marjanne  
1981 James Norris  
1981 Montrealais  
1981 Ontario Power  
1981 Quebecois  
1981 Pointe Noire  
1981 R. Bruce Angus  
1981 Red Wing  
1981 Seaway Queen  
1981 Wheat King  
1981 Fleet  
1982 Cape Breton Miner  
1982 Frank A. Sherman  
1982 gordon C. Leitch  
1982 Hilda Marjanne  
1982 Northern Venture  
1982 Ontario Power  
1982 Pointe Noire  
1982 R. Bruce Angus  
1982 Red Wing  
1982 Wheat King  
1983 Cabot [later stern of Canadian Explorer]  
1983 Cape Breton Miner  
1983 Chimo [later stern of Canadian Ranger]  
1983 Frank A. Sherman  
1983 Gordon C. Leitch

1983 Hilda Marjanne

1983 Northern Venture

1983 Ontario Power

1983 Phosphore Conveyor

1983 R. Bruce Angus

1983 Red Wing

1983 Wheat King

## GRAPHIC SUBGROUP

The ship plan subgroup consists of approximately 33 cubic feet of graphic material which translates into almost 2550 plans by count. These plans are almost exclusively blueprints (folded). Following ship register convention, the plans are primarily arranged alphabetically, according to vessel name. At the item level, the individual plans were often numbered by the company. They have remained in this order, and are listed thus. Where no company number was found the plans were assigned item level numbers from .1 onwards. Full accession numbers have been assigned at the archivist's discretion - each box being allotted a main tripartite number, then each item's own number concatenates to this to form a four element accession number for each plan. (Thus plan .23 in box 1995.26.25 is fully identified as plan 1995.26.25.23).

A fleet list from The Ships of Upper Lakes Shipping by Garnet Wilcox and Skip Gillham has been included in the introduction to this subgroup to orient the reader and facilitate identification of vessels.

UPPER LAKES SHIPPING FLEET LIST  
Including present and past ships

Ambassador  
Angus, R. Bruce  
Arctic  
Arctic Troll  
Baird, Frank B.  
Barge 137  
Blue Cross  
Blue River  
Brown Beaver  
Brawn Barge  
Bad, Ralph  
Canadian Ambassador  
Canadian Century  
Canadian Enterprise  
Canadian Explorer  
Canadian Highlander  
Canadian Hunter  
Canadian Leader  
Canadian Mariner  
Canadian Navigator  
Canadian Olympic  
Canadian Pioneer  
Canadian Progress  
Canadian Prospector  
Canadian Ranger

Canadian Transport (I)  
Canadian Transport (II)  
Cape Breton Highlander  
Cape Breton Miner  
Citadel Hill

UPPER LAKES SHIPPING FLEET LIST  
Including present and past ships (continued)

Clement, Norman P.  
Daniels, William H.  
Douglass, Edwin T.  
Eads, James B.  
Ericsson, John  
Federal Monarch  
Field, Albert C.  
Fritz, John  
Glenbogie  
Goderich  
Grey Beaver  
Grovedale  
Hamilton Energy  
Hart, Judge  
Hilda Marjanne  
Holley, Alexander  
Hollaway, John A.  
Houghton, Douglass  
Huntley, Charles R.  
Inverewe  
Kenefick, Judge  
Leitch, Gordon C.  
Maunaloa II  
MacPherson, Norman B.  
McGrath, James E.  
McCorquodale, L.A.  
Meaford  
Melanie Fair  
Montrealais  
Nelvana  
Nisbet, Watkins F.  
Norris, James  
Northern Venture  
Ontario Power  
Parkdale

Phosphore Conveyor  
Pillsbury, John S.  
Pioneer  
Pointe Noire  
Pomeroy, Robert W.  
Port Weller  
Quebecois  
Rammacher, John H.  
Red Wing  
Richards, John H.  
Richmond Hill (I)  
Richmond Hill (II)  
Ridgetown  
Roebing, John A.  
St. Lawrence Navigator  
St. Lawrence Prospector

UPPER LAKES SHIPPING FLEET LIST  
Including present and past ships (continued)

Sarnian  
Seaway Queen  
Shaw, Howard L.  
Sherman, Frank A.  
Stewart, James  
Taylor, Shirley G.  
Thornhill (I)  
Thornhill (II)  
Thornhill (III)  
Torian, George L.  
Victorious  
Wallaceburg  
Warren, William C.  
Weed, Shelton  
Wheat King  
Wiarion

**Canadian Explorer      1995.26.15**  
**ex- Northern Venture[bow]**  
**ex- Cabot[stern]**  
**Port Weller/-/1984**

**Accession #/Title/Drawing #/Date**

- .1/Capacity Plan/Dwg - /1973
- .2/Mallkantenplan Und Massskizze/Dwg 556/557-002009/1960
- .3/Hydrostatic Curves/Dwg 556-0010-02/1961
- .4/General Arrangement/Dwg - /1961
- .5/Cargo Hold-Wing-Bulkheads FRS 83,109,135,163,191/Dwg 556-      1303d/1960
- .6/Bulkheads On Upper-Deck (Aft)/Dwg 556-1507a/1960
- .7/Zu Und Abluft Der Wohnraume Im I. Und Backdeck Vorschiff/Dwg      556/557-3120-01/1961
- .8/Installation Of The Upper Deck And Forecastle Deck/Dwg 556-9000-      06a/1960
- .9/New Duct Arm. Poopdeck/Dwg 556-3103/1961
- .10/Supply And Exhaust Air Of Accomodation Rooms In Upper Deck,      Frame 19-45/Dwg 556-  
3120-03/1961
- .11/Gyro System And Gyro Steering/Dwg 556-9000-21a/1960
- .12/Arrangement Of Zinc Protectors On Stern Frame And Rudder/Dwg      556-0020-29/1960
- .13/Chain Locker/Dwg 556-1004/1960
- .14/Sea Box Strainer/Dwg 556-8000-06b/1960
- .15/Arrangement Of Rudder Equipment/Dwg 556-10-15/1960
- .16/Arrangement Of Rudder Equipment/Dwg 556-10-15/1960
- .17/Stern Anchor Pocket/Dwg 556/557-1105/1960
- .18/Bower Anchor Pocket/Dwg 556/557-1106a/1960
- .19/Tank Top/Dwg 556-1201/1960

- .20/Upper Deck/Dwg 556-1410/1960
- .21/Upper Deck Forw./Dwg 556-1413a/1960
- .22/Bridge Deck/Dwg 556-1414a/1960
- .23/Forecastle Deck/Dwg 556 1417a/1960
- .24/Bulkheads On Upper Deck/Dwg 556-1505a/1960
- .25/Bulkheads On Upper Deck (Aft)/Dwg 556-1507a/1960
- .26/Bulkheads On Upper Deck (Aft)/Dwg 556 1507a/1960
- .27/Bulkheads On Poopdeck/Dwg 556-1509/1960
- .28/Anderung Des Poop-Front-Schotts Und Deckuberstand/Dwg 556-15- 13a/1960
- .29/Oberlicht Zum Crews Recreations Room/Dwg 556-1530-01/Date -
- .30/Boom Step For 2 t. Load/Dwg 556/557-2020-02b/1961
- .31/Rudder Tiller Casting Model/Dwg 556-2100-02/1960
- .32/Steering Gear Motor Assembly/Dwg 556-2100-04/1961
- .33/Steering Gear Motor Assembly/Dwg 556-2100-04/1961
- .34/Arrangement Of Port Colborne Fairleads On Maindeck/Dwg 556/557- 2330-07/1960
- .35/Diagram Arrangement Of Fwd. Ventilation/Dwg ?/1960
- .36/Coverstion Of Sea Chest For Potable Water Fill Pump/Dwg 556- 8030-03a/1960
- .37/Elevation Engine And Boiler Room Stbd. Side/Dwg 556-6100- 04b/1960
- .38/Poopdeck Reefer Space - Refrigeration Insulation/Dwg 556- 2520-04a/1960
- .39/Poopdeck Reefer Space - Refrigeration Insulation/Dwg 556- 2520-04a/1960
- .40/Supply And Exhaust Air Of Accomodation Rooms In Upper Deck, Frame 19-45/Dwg 556-3120-03/1961

- .41/Supply And Exhaust Air Of Accomodation Rooms In Upper Deck, Frame 19-45/Dwg 556-3120-03/1961
- .42/New Duct Arm. Poop Deck/Dwg 556-3103/1961
- .43/New Duct Arm. Boat Deck/Dwg 556-31-01/1961
- .44/Supply And Exhaust Air Of Accomodation Rooms In Back Deck And Upper Deck Forebody/Dwg 556/557-3120-01/1961
- .45/New Duct Arm. Upper Deck/Dwg 556-31-02/1960
- .46/New Duct Arm. Upper Deck/Dwg 556-31-02/1960
- .47/New Duct Arm. Upper Deck/Dwg 556-31-02/1960
- .48/Supply And Exhaust Air Of Accomodation Rooms In Upper Deck, Frame 0-19/Dwg 556-3120-04/1961
- .49/Exhaust Air For Crew Recreation Room/Dwg 556-3120-05/1961
- .50/Piping - Foreward/Dwg 556-8000-22/1961
- .51/Insulation Plan/Dwg 556-3700-01b/1961
- .52/Quarters Arrangement Upper Deck Forward A. Forecastle Deck/Dwg 556-4300-03/1960
- .53/Sea Box Strainer/Dwg 556-8000-06b/1960
- .54/Arrangement Of Sanitary System Aft And Fwd./Dwg 556-8030- 01/1960
- .55/Diagrammatic Of Main Water Piping In Engine Room/Dwg 556-8030- 02/1960
- .56/Conversion Of Sea Chest For Potable Water Fill. Pump/Dwg 556- 8030-03a/1960
- .57/Diagrammatic Arrangement Of Sewage System/Dwg 556-8040-06a/1960
- .58/Engine And Boiler Room Extraction And Waste Steam Piping Diagram/Dwg 556-8100-02/1960
- .59/One Line Diagram/Dwg 557-9000-01/1960
- .60/Diagrammatic Of Drain Piping/Dwg 556-8110-02/Date -



- .61/Installation Of The Upper Deck And Forecastle Deck/Dwg 556- 9000-06a/1960
- .62/Gyro System And Gyro Steering/Dwg 556-9000-21a/1960
- .63/Wiring Diagram For Ballast Pump 2 And Connection For Aft Winch Power Panel/Dwg 556-9110-02/1960
- .64/Diagrammatic Arrangement Of Bilge - , Ballast - , And Priming System/Dwg 556-8000-02d/1960
- .65/Diagrammatic Arrangement Of Bilge, Ballast, And Priming System/Dwg 556-8000-02d/1960
- .66/Sanitary Discharge Lines/Dwg 556-8040-07c/Date -
- .67/Diagrammatic Arrangement Of Compressed Air Lines/Dwg 556-6160- 01/1960
- .68/Connection For Fwd. Winch Power Panel, And Connection For Measurement/Dwg 556-9110-03/1960
- .69/Diagrammatic Arrangement Of Bilge, Ballast, And Priming System/Dwg 556-8000-02d/1960
- .70/Diagrammatic Arrangement Of New Auxiliary Steam Piping.Dwg 556- 8100-03/1960
- .71/Fire Extinguishing Plan/Dwg 556-8050-01/1960
- .72/Fire Extinguishing Plan/Dwg 556-8050-01/1960
- .73/Hydrostatic Curves/Dwg 556-0010-02/1961
- .74/Hydrostatic Curves/Dwg 556-0010-02/1961
- .75/Docking Plan/Dwg 556-0010-15/1961
- .76/Docking Plan/Dwg 556-0010-15/1961
- .77/Docking Plan/Dwg 556-0010-15/1961
- .78/Arrangement Of Life-Saving Equipment/Dwg 556/557-32-01c/1960
- .79/Mooring Arrangement Upper Deck/Dwg 556/557-23-01a/1960
- .80/Anchor Arrangement On Stern/Dwg 556/557-22-02c/1960

- .81/Bower Anchor Arrangement/Dwg 556/556-22-01b/1961
- .82/Arrangement Of Scupper/Dwg 556-8040-03b/1961
- .83/Diagrammatic Arrangement Of Vent And Sounding Pipes/Dwg 556- 8060-03/1960
- .84/Scupperplant/Dwg 556-8040-01a/1960
- .85/Storm Valve Welded Discharge Pipe/Dwg 556-8040-08/1960
- .86/Suction Bellmouth/Dwg 556-8000-05a/1960
- .87/Masts For Noc-Lights, Anchor Lights And Signalling Lamp/Dwg 556/557-2740-01/1961
- .88/Passageway Exhaust Air Fr. 25-26P Fr. 26-27S/Dwg 556-3120- 02/1961
- .89/Steam For Running Engineroom/Dwg 556-3140-07/1961
- .90/Ventilation Of Passage-Ways/Dwg 556/557-3160-02a/1961
- .91/Ventilation Of Stores, Etc. In Fore Body/Dwg 556-3160-01/1960
- .92/Hallways And Decks For Crew's Recreation Room 83/Dwg 556-41- 06/1961
- .93/Walls, Hallways And Decks For Crew's Messroom And Poopdeck/Dwg 556-41-07/1961
- .94/Steel Doors/Dwg 556/557-3302d/1960
- .95/Drawing For Windows/Dwg 556-33-01/1961
- .96/Supply And Exhaust Air For CO2 Room/Dwg 556-3160-06/1961
- .97/Dutch Type Door In Shell-Plating/Dwg 556/557-3310-02/1960
- .98/Outside Dead Light For Windows/Dwg 556-3380-04/1961
- .99/Inside Dead Light For Windows/Dwg 556-3380-02/1961
- .100/Stewards Stores Poopdeck Room 38/Dwg 556-4680-03/1961
- .101/Deck Store Upperdeck Forward Room 26a/Dwg 556-4680-04/1961

- .102/Duplex Priming Unit/Dwg 652/1960
- .103/Priming System/Dwg 651/1960
- .104/Lamproom/Dwg 556/557-4680-05/1960
- .105/Owner's Pantry Room 9/Dwg 556-4710-13a/1960
- .106/Laundry Room 77 Upper Deck Aft/Dwg 556-4750-01/1960
- .107/Table Lamp/Dwg 556-4800-01/1960
- .108/Ships Name (Bow)/Dwg 556-5260-01a/1961
- .109/Arrangement Of E-Station Upperdeck/Dwg 556-4640-11a/1961
- .110/Installation E-Log/Dwg 556-9000-30b/1960
- .111/Installation Of Consumer In The Pantry/Dwg 556-9000-27a/1961
- .112/Cable Way In The Cable Trunk/Dwg 556-9030-03/1961
- .113/Installation Of Engine Order Telegraph And Plant Mills/Dwg 556-9000-22/1960
- .114/Installation Of Rudder Angle Indicator And Revolution Counter/Dwg 556-9000-23a/1960
- .115/Mold Loft Offsets/Dwg - /1961
- .116/Exhaust Air For Laundry p./Dwg 556-3120-06/1961
- .117/Exhaust Air Of Mess Room - Officers And Crew/Dwg 556-3120-09/1960
- .118/Watertight Flap Arrangement I/Dwg 556-3130-01/1960
- .119/Arrangement Of Gyro Room/Dwg - /1961
- .120/Arrangement Of Nautical Equipment In The Pilot House/Dwg 556-4-15b/1960
- .121/Owner's Cabin/Dwg 556-4-12a/1960
- .122/Self Closing Vave/Dwg 556-8040-05/1960

- .123/Inventory List For Deck Department/Dwg 556-28-01/Date -
- .124/Section Through Wall/Dwg 556-41-05/1960
- .125/Captain's Dayroom/Dwg 556-4-10a/1960
- .126/Supply And Exhaust Air For Paint Locker/Dwg 556-3160-03/1961
- .127/Officer's Mess Room - Arrangement Of Galley Door 556 And 557/Dwg 556-41-09/1961
- .128/Alteration Of Rails In Aft Body/Dwg 556/557-3500-02/1962
- .129/Captain's Bedroom/Dwg 556-4-11a/1960
- .130/Painting/Dwg 556-5-32a/1960
- .131/Farben Und Konservierungsplan Fur Alle Neuen Und Eisenteile/Dwg 556/557-5-31/1960 Aufgearbeiteten
- .132/Arrangement Of Pilot's Room/Dwg 556-4-17/1961
- .133/Recreation Room Forward/Dwg 556-4-16/1960
- .134/Lamp Screen For Spare Rangelamp/Dwg 556/557-2700-03a/Date -
- .135/Signal Mast Aft/Dwg 556-2700-02a/1960
- .136/Arrangement Of Port Colborne Fairleads On Upper Deck/Dwg 556/557-2330-07b/1960
- .137/Namepennant/Dwg 556-2840-01/1960
- .138/Bitter Eno Fittings For Bower Anchor Chains/Dwg 556/557-2230-01/1960
- .139/Bolt For Rudder Tiller/Dwg 556-2100-03/1960
- .140/Bitter End Fittings For Stern Anchor Chains/Dwg 556/557-2260-01/1960
- .141/Slider (Stern)/Dwg 556/557-2260-03a/1960
- .142/Grand View Boiler-Room And Platform Deck Engine-Room/Dwg 556-6100-02b/1960
- .143/Funnelmark N.B. 556/Dwg 556-5260-03/1961

- .144/Arrangement Of Whistles In The Funnel/Dwg 556/557-7800-03/1961
- .145/Notabschaltung Fur Pumpen/Dwg 556-9000-17a/1961
- .146/Arrangement Of Navigation Lamps/Dwg 556/557-9320-02/1960
- .147/Installation Of Fathometer/Dwg 556-9000-13a/1960
- .148/Installation Of The Trimmindicator Fwd. And Aft/Dwg 556-9000- 16a/1961
- .149/Arrangement Of Cable For Quick-Closing Controls At Diesel Oil Tanks/Dwg 556-8130-09/1961
- .150/Sea Water Heater/Dwg 59-998-1/1960
- .151/Steam Lines At Hot Water Boiler In Forebody/Dwg 556-8100- 04/1960
- .152/Comensator (#10004) F. Safety Line/Dwg 556-8170-02/1960
- .153/Overall Dimensions Of Extra Heavy Marine Viking Johnson Couplings For Steel Pipes/Dwg 556-8000-04/1960
- .154/Arrangement Of Pilot-House/Dwg 556-4-08b/1960
- .155/Quarters Arrangement Upper Deck Fwd. a. Forecastle Deck/Dwg 556-4-03f/1961
- .156/Quarters Arrangement Upper Deck Aft/Dwg 556-4-01d/1960
- .157/Quarters Arrangement Poop Deck/Dwg 556-4-02c/1960
- .158/Main And Bridge Deck Fwd./Dwg 556-4-09b/1960
- .159/Linen Locker Upper Deck Aft Room 87/Dwg 556-4680-01/1961
- .160/Navigation Bridge/Dwg 556-4440-01/1961
- .161/Chest For Radar Transmitter And Folding Table/Dwg 556-4440- 02/1961
- .162/Pad Eyes For Boatswain's Chair/Dwg 556/557-2880-57/1961
- .163/Supply And Exhaust Air For Steering Gear Room/Dwg 556-3140- 01/1960
- .164/Blocking For Rotating Ventilator Caps/Dwg 556-3120-14a/1961

- .165/Label Schedule (Page 1)/Dwg 556-2870-03a/1961
- .166/Label Schedule (Page 2)/Dwg 556-2870-03a/1961
- .167/Label Schedule (Page 3)/Dwg 556-2870-03a/1961
- .168/Deadweight Calculation/Dwg - /1961
- .169/Conversion Of Sea Chest For Potable Water Fill Pump/Dwg 556- 8030-03a/1960
- .170/Diagram Arrangement Of Fwd Ventilation/Dwg - /1960
- .171/Steering Gear Motor Assembly/Dwg 556-2100-04/1961
- .172/Bulkheads On Upper Deck (Aft)/Dwg 556-1507a/1960
- .173/Deadweight Calculation/Dwg - /1961
- .174/Protocols Of Trials/Dwg - /1961
- .175/Capacity Plan/Dwg 556-0010-16/Date -
- .176/Frame Plan/Dwg 556-1103/1960
- .177/Ventilation Plant/Dwg 556-31-06/1961
- .178/Calculation Of Trim/Dwg - /1961
- .179/Detail "A" From Dwg No. 556.1014a/Dwg 556 1016/1961
- .180/Deckdurehbruche Fur Ruder M. Roum Luftung (Alt)/Dwg 3140- 02/1960
- .181/Turenplan Fur Kammer-Moskito U. Ruderhausturen [Joiner Door Plan]/Dwg 556-4300-07c/1960
- .182/Diagrammatic Arrangement Of Bilge - , Ballast - , And Priming System/Dwg 556-8000-02d/1960
- .183/New Duct Arm. Poop Deck/Dwg 556-3103/1961

**Canadian Explorer                      1995.26.16**  
**ex. Northern Venture (bow)**  
**ex. Cabot (stern)**  
**Port Weller/-/1984**

**Accession #/Title/Drawing #/Date**

- .1/General Arrangement - Profile/Dwg 649-A.F.-500-1/Date -
- .2/General Arrangement - Spar Deck And Top Decks/Dwg 649-A.F.-500- 2/Date -
- .3/General Arrangement - Main Deck-Steering Gear Flat-Tank Top/Dwg 649-A.F.-500-3/Date -
- .4/General Arrangement - Main Deck-Steering Gear Flat-Tank Top/Dwg 649-A.F.-500-3/Date -
- .5/Capacity Plan/Dwg 649-A.F.-501/1965
- .6/Capacity Plan/Dwg 649-A.F.-501/1967
- .7/Capacity Plan/Dwg 649-A.F.-501/1967
- .8/Lines Plan/Dwg 649-A.F.-502/1965
- .9/Lines Plan/Dwg 649-A.F.-502/1965
- .10/Lines Plan/Dwg 649-A.F.-502/1965
- .11/Hydrostatic Curves/Dwg 649-A.F.-503/1965
- .12/Hydrostatic Curves/Dwg 649-A.F.-503/1965
- .13/Hydrostatic Curves/Dwg 649-A.F.-503/1965
- .14/Trim And Stability Particulars - Conditions With Only One Crane On Board/Dwg - /1967
- .15/Trim And Stability Particulars - Conditions With Only One Crane On Board/Dwg - /1967
- .16/Trim And Stability Particulars/Dwg 649-A.F.-504/1965
- .17/Trim And Stability Particulars/Dwg - /1967
- .18/Trim And Stability Particulars/Dwg - /1967
- .19/Cross Curves OF Stability/Dwg 649-A.F.-506/1965

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- .62/Arrangement Of Elevator Piping/Dwg 649-4225-11/1964

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- .12/Dwg H-8211/W.T. Bhd 204/1964
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- .20/Dwg H-8219/Spar Deck Plating at Ends/1964
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- .42/Dwg H-8241/Accommodation Ladder Arrangement/1964
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.64/Dwg H-8263/Fire Detection/1985 (Date issued)

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**ex- Petite Hermione**  
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**Saint John Shipbuilding & Drydock Co. Ltd./Hull 47/1960**

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- .26/Diagrammatic Arrangement Bilge, Ballast & Priming Systems/Dwg 325/1961
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- .50/Lube Oil Settling, Storage, Gravity & Miscellaneous Tanks/Dwg 398/61
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- .62/Painting Schedule/Dwg 95/1962
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- .78/Key Plan And List Of Sidelights And Windows/Dwg 82/1961
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Canadian Pathfinder

1995.26.22

**ex. Baie St. Paul**

Davie Shipbuilding/-/1963

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**CANADIAN RANGER                    1995.25.23**  
**ex HILDA MARJANNE (bow)**  
**ex CHIMO (stern)**  
**Hull 57/Kaiser Shipyards/1943**  
**Hull 662/Davie Shipyards/nd**  
**Conversion/Port Weller Shipyards/1983**

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**Canadian Ranger****1995.26.24****ex Hilda Marjanne [Bow]****ex Chimo [Stern]****Conversion. Port Weller/-/1983****Accession #/Title/Drawing #/Date**

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- .11/Elevation Engine - And Boiler Room Port Side/Dwg 556-6100- 03/1960
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- .25/Piping Arrangement F. Donkey Boiler/Dwg 556-8170-01/1960
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- .27/Fuel Oil Bunker Station/Dwg 556-8130-02/1961
- .28/Arrangement Of Quarter Heating Unit/Dwg 556-8300-01/1961
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- .30/Scupper With Water Trap For Sanitary Room/Dwg 556-8040-09/1960
- .31/Fire Extinguishing Plan/Dwg 556-8050-01/1960
- .32/Exhaust Air For Oil Skin Locker/Dwg 00556-3160-05/1961
- .33/Pipingplan - Passageway/Dwg 556-8000-21a/1960
- .34/Arrangement Of Sanitary System Aft And Fwd./Dwg 556-8030- 01/1960
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- .36/Diagrammatic Of Drain Piping/Dwg 556-8110-02/1960
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- .117/Schrank Fur Radarsender Und Klapptisch/Dwg 556-4440-02/1961
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- .119/Arrangement Of Pilot House/Dwg YD 571-S33-1-4/1960
- .120/Deadweight Calculation/Dwg - /1961
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- .122/Installation Of CO2 Room/Dwg - /1960
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- .124/Label Schedule (Page One)/Dwg 556-2870-03/1961
- .125/Label Schedule (Page One)/Dwg 556-2870-03a/1961
- .127/Label Schedule (Page Two)/Dwg 556-2870-03/1961
- .128/Label Schedule (Page Three)/Dwg 556-2870-03/1961
- .129/Label Schedule (Page Three)/Dwg 556-2870-03a/1961
- .130/Tiefgangsanzeiger/Dwg 556/557-2800-04/1961
- .131/Arrangement Of Hydraulic Pump Unit For Automatic Pilot/Dwg 556/557-9720-02/1961
- .132/Scheinwerfer Auf Bootsdeck/Dwg 556/557-9330-03/1961
- .133/Pad Eyes For Boatswain's Chair/Dwg 556/557-2880-57/1961
- .134/Zusatzlicher Haken An Fallreepfeiler/Dwg 556/557-2800-05/1961
- .135/Lifeboat Stowage/Dwg YS571-S82-1-1/Date -
- .136/Protocols Of Trials/Dwg - /1961
- .137/Sanitary Discharge Lines/Dwg 556-8040-07c/1960
- .138/Diagrammatic Arrangement Of Sewage System/Dwg 556-8040-06a/1960
- .139/Diagrammatic Of Main Water Piping In Engine Room/Dwg 556-8030-02/1960
- .140/Diagrammatic Of Diesel Oil Piping/Dwg 557-8130-01/1960
- .141/House On Bridge Deck/Dwg 556-1516/1960
- .142/Lamp Shelves For Position Lamps/Dwg 556/557-11-11/1961
- .143/Port Colborne Fairleads Outline 20" Type. Arrangement With Frame/Dwg EO 4419/1960
- .144/Docking Plan/Dwg 557-0010-15/1961

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- .1/General Arrangement - Profile/Dwg 662-A.F.-500-1/1967
- .2/General Arrangement - Spar-Deck And Top-Decks/Dwg 662-A.F.-500- 2/1967
- .3/General Arrangement - Main Deck-Steering Gear Flat-Tank Top/Dwg 662-A.F.-500-3/1967
- .4/Capacity Plan/Dwg 662-A.F.-501/1967
- .5/Lines Plan/Dwg 662-C-1/Date -
- .6/Hydrostatic Curves/Dwg 662-A.F.-503/1967
- .7/Cross Curves Of Stability/Dwg 662-A.F.-506/1967
- .8/Profile And Decks Aft. Body/Dwg 662-A.F.-507/Date -
- .9/Midship Section And Profile & Decks In Way Of Holds/Dwg 662- A.F.-502/Date -
- .10/Shell Expansion/Dwg 662-120-2/1966
- .11/Graph To Determine Angle Of Heel To Immerse No. 4 Shell Door/Dwg - /Date -
- .12/Capacity Plan/Dwg 649-A.F.-501/1967
- .13/Ships Name, Draft Marks And Colour Scheme/Dwg 662-3072-2/1967
- .14/Deck Cargo Stowage And Lashings/Dwg 662-2046-2/1967
- .15/Berth Spring Officer And Crew/Dwg 211/1966
- .16/Crew Arm Chair/Dwg 217/1966
- .17/No. 3 Hatch Closing Operation/Dwg 662-2014-2/1967
- .18/General Arrangement - Main Deck-Steering Gear Flat-Tank Top/Dwg 662-9000-2 (Sheet 3)/1966

- .19/Hatch Cover Operating Instructions/Dwg 662-H5C-2014-8/Date -
- .20/Stowage Plan No. 1 Hatch/Dwg 662-H5C-2014-3/1966
- .21/Stowage Plan No. 2 Hatch/Dwg 662-H5C-2014-4/1966
- .22/Stowage Plan No. 3 Hatch/Dwg 662-H5C-2014-5/1966
- .23/Arrangement Of Special Cable Drum/Dwg 35S056-3/1966
- .24/Container Guide Arrangement No. 4 Hatch/Dwg 6348-1/1980
- .25/Scantling Modifications (No. 3 Hatch Panels 1 And 8)/Dwg P.2420a/1980
- .26/No. 3 Hatch Closing Operation/Dwg 662-2014-2/1967
- .27/Arrangement And Scantling Plan/Dwg 662-H5C-2014-1/1966
- .28/Arrangement And Scantling Plan/Dwg 662-H5C-2014-1/1966
- .29/Arrangement And Scantling Plan/Dwg 662-H5C-2014-1/1966
- .30/Arrangement Of Fairlead Roller/Dwg 662-H5C-2014-7/1966
- .31/List Of Chains As Fitted To Covers Less Than 36'0" Wide/Dwg 662-H5C-2014-11/Date -
- .32/Arrangement And Details Of Spring Buffer And Eyeplate/Dwg 662- H5C-2014-6/1966
- .33/Constructional Details/Dwg 662-H5C-2014-2/1964
- .34/Quick Acting Cleat For Hatch Sides/Dwg 662-H5C-2014-9/Date -
- .35/Double Bottom (Hold)/Dwg 662-120-1 (Sheet 1)/1966
- .36/Water Ballast Tank In Lowe Hold Fwd./Dwg 662-120-15/1966
- .37/Locking Arrangement/Dwg D-WK-552-21B/1957
- .38/Typical Dogging Detail/Dwg D-WK-522-8 Rev B/1956
- .39/Midship Section And Profile & Decks In Way Of Hold/Dwg 662- 9000-2/1966
- .40/Hatch End Beams And Strong Beams In Holds For Main Deck/Dwg 662-120-4 (Sheet 1)/1966

- .41/Hatch End Beams And Strong Beams In Holds For Spar Deck/Dwg 662-120-4 (Sheet 2)/1966
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- .43/Forecastle Deck And Bulkheads Under/Dwg 662-130-5/1966
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- .47/Crane Rail And Pin Rack Arrangement (Spar Deck)/Dwg 662-2017- 7/1967
- .48/Cargo Door Ramps/Dwg 662-3064-2 (Sheet 1)/1967
- .49/Lifting Spreader (38 3/4 Ton) (Aluminum)/Dwg 662-2046-4/1966
- .50/ 20 Ton Electric Trav. Deck Crane/Dwg 662-H5C-2017-5/1966
- .51/ 20 Ton Electric Trav. Deck Crane/Dwg 662-H5C-2017-6/1966
- .52/Requisition Form (B)/Dwg 662-H5L-2014-10/1966
- .53/ 15 Ton Trav. Electric Deck Crane/Dwg 44-128-76/1964
- .54/Fabricated Bow Fairlead/Dwg 662-2048-1/1967
- .55/Elevators - Sprocket Shafts And Coupling/Dwg 662-3083-7/1967
- .56/Lower Hold W.T. Bulkheads/Dwg 662-120-30/1966
- .57/Elevator Cylinder Anchor Block/Dwg 662-3083-5/1967
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- .59/Ram Fork Assembly/Dwg 662-3083-6/1967
- .60/Mechanical Arrangement Of Elevator Cylinders, Ram, Sprockets Etc./Dwg 662-3083-2/1967
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.66/Cable Tray In Cargo Space P. And S./ Dwg 662-6301 SK-2/1966

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.70/Mushroom Heads For Cargo Hold Ventilation/Dwg 662-1160-3/1967

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.72/Stowage Arrangement For Cargo Door Ramps/Dwg 662-3064-2 (Sheet 3)/1967

.74/Cargo Battens (Arrangement And Details)/Dwg 662-2036-1/1967

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.76/ 38 3/4 Ton Lifting Spreader Seat/Dwg 662-2046-5/1967

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.79/Vertical Steel Ladders/Dwg 662-3062-1/1967

.80/Single Roller Fairlead (1 Off)/Dwg 662-2048-2/1967

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- .87/Outside Scuppers And Drains/Dwg 662-4085-14 (Sheet 2)/1966
- .88/Arrangement Of Scuppers For W.T. Cargo Doors/Dwg 662-4085-16 (Sheet 1)/1966
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- .91/F.O. And D.O. Tanks Air Vent Piping Arrangement/Dwg 662-4202-3 (Sheet 1)/1966
- .92/Hydro Pneumatic Domestic And Sanitary Systems/Dwg 87Z62/1966
- .93/Hydraulic Piping Arrangement Cargo Elevators/Dwg 662-4225-11 (Sheet 1)/1967
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- .95/Hydraulic Piping Arrangement For Cargo Doors/Dwg 662-4225-10 (Sheet 1)/1966
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**ex- Ore Transport**  
**[converted] Kure Shipyards/37/1953**

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- .1/Arrangement of Make Up Feed Evaporator Piping & B/M/Dwg 37-S58-    1-5/1953
- .2/Arrangement of Refrigeration Compressor Room/Dwg 36-S59-1-        3/1953
- .3/Arrangement of Freon Piping in Refrigerated Spaces/Dwg 36-S59-    1-4/1953
- .4/Arrangement of Freon Piping & Salt Water Cooling Pipe in                      Refrigeration Compressor  
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- .5/Boiler Uptakes/Dwg 37-S52-1-1/1953
- .6/Smoke Stack/Dwg 37-S52-1-2/1953
- .7/Safety Valve Expansion Joints/Dwg 37-S48-27-7/1953
- .8/Operating Gear Yokes for Ballast & Bilge Valves/Dwg 37-S48-24-    5/1953
- .9/Ballast Recess Whistle Alarm/Dwg 37-S48-25-2/1953
- .10/Arrangement & Detail of Feedwater Regulator & Gage Glasses on                      Boiler Steam Drum/Dwg  
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- .11/Safety Valve Release Gear/Dwg 36-S51-3-2/1953
- .12/Forced Draft Ducts Arrangement & Details/Dwg 36-S52-2-1/1953
- .13/Arrangement of Piping in Stack/Dwg 36-S52-2-2/1953
- .14/Hot Water Drain Collecting Tank/Dwg 36-S56-4-1/1953
- .15/Contaminated Drain Tank/Dwg 36-S56-4-2/1953
- .16/Arrangement of Sw Distilling Plant Piping Plans & Bim/Dwg 36-    S58-1-1/1953
- .17/Arrangement of Sw Distilling Plant Piping Sections & Elev's/Dwg    36-S58-1-2/1953
- .18/Misc. Reach Rods on Eng. Room/Dwg 37-S48-12-1/1953

- .19/Misc. Reach Rods/Dwg 37-S48-12-3/1953
- .20/List of Gages & Thermometers/Dwg 37-S48-23-8/1953
- .21/Pneumercator Gages Arrangement & Details/Dwg 36-S48-23-9/1953
- .22/Arrangement of Boiler Stack Instruments/Dwg 36-S48-23-10/1953
- .23/Gage Board for Ballast System in Engine Room/Dwg 36-S48-23- 11/1953
- .24/Gage Board for Main Operating Station/Dwg 37-S48-23-12/1953
- .25/Boiler Gage Board/Dwg 37-S48-23-13/1953
- .26/Remote Reading Water Level Gages for Main Boiler Steam Drums/Dwg 37-S48-23-14/1953
- .27/Reach Rods for Ballast Valves/Dwg 37-S48-24-3/1953
- .28/Arrangement of Machinery Plan Views/Dwg 36-S40-0-1/1953
- .29/Shafting Arrangement & Details/Dwg 36-S43-1-1/1953
- .30/Arrangement of Machinery Sections/Dwg 36-S40-0-3/1953
- .31/Arrangement of Machinery Elevations/Dwg 36-S40-0-2/1953
- .32/Fan List/Dwg 36-S38-1-8/1953
- .33/Arrangement of Steering Gear Room/Dwg 36-S22-1-1/1953
- .34/Tuck Steerer Arrangement & Details/Dwg 36-S22-1-2/1953
- .35/Arrangement of Elec. Hydraulic Strng Gear/Dwg A-4378/1953
- .36/Stern Tube/Dwg 36-S43-1-2/1953
- .37/Diagram of Main Cue Water & Clean Ballast System/Dwg 36-S48-3- 01 Alt 6/1953
- .38/Diagram of Fuel Oil Service System/Dwg 36-S55-1-01 Alt 3/1953
- .39/Diagram of Fire Main/Dwg 36-S48-3-03/1953
- .40/List of Nameplates Lighting & Intercoms/Dwg 36-S60-2-2/1953

- .41/Location of Elec. Equipment on Buldhead#62/Dwg 36-S60-4-1/1953
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- .44/Main Wire Way Tunnel/Dwg 36-S62-1-5/1953
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- .47/List of Lighting Panels/Dwg 36-S64-1-7/1953
- .48/Arrangement of I.C. Equipment Gyro Room, Chart Room, Pilot House & Top of House/Dwg 36-S65-0-1/1953
- .49/Voice Tubes Deck Plan/Dwg 36-S65-1-4/1953
- .50/Engineers Alarm Panel & Wiring Diagram/Dwg 36-S65-2-1/1953
- .51/Arrangement of Equipment in Radio Room & Captain Office/Dwg 36-S67-0-3/1953
- .52/Radio Battery Box/Dwg 36-3N-171/1953
- .53/Water Drum/Dwg NY-510-658-J/1953
- .54/Arrangement of Brickwork & Field Insulation/Dwg NY 510-679-M/1953
- .55/External Attachments to Steam & Water Drums/Dwg NY 530-343/1953
- .56/General Arrangement-Outside Elevation/Dwg NY 510-693-R/1953
- .57/General Arrangement-Auxiliary Sections/Dwg NY 510-578-N/1953
- .58/Internal Attachments to Steam Drum/Dwg NY 512-321-K/1953
- .59/Arrangements & Details of Rear Waterwall Steam Drum 48" I.D./Dwg NY 510-657-G/1953
- .60/Seating Arrangement & Loading Diagram/Dwg NY 510-550-L/1953
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- .63/Details of Drum Internals/Dwg NY 511-477-E/1953
- .64/Foster Wheeler Corp Steam Generator/Dwg 17451-1/1953
- .65/Arrangement & Details of Front & Rear Waterwall Feeder Tubes/Dwg NY 510-481-D/1953
- .66/Arrangement of 4" U.D. Boiler Stiffener Tubes/Dwg NY 511-358-N/1953
- .67/Arrangement of Front Waterwall Tubes/Dwg NY 510-567-B/1953
- .68/Front & Rear Wall Riser Tubes/Dwg NY 510-576-B/1953
- .69/Tubes/Dwg NY 510-472-H/1953
- .70/Arrangement of Drum Internals/Dwg NY 510-876-F/1953
- .71/Modification to Main Fuel Piping at Boilers/Dwg 256841/1953
- .72/External Attachments to Steam & Water Drums/Dwg NY 530-343/1953
- .73/Tube Templet/Dwg NY 510-472-H/1953
- .74/General Arrangements Aux Sections/Dwg NY 510-578-V/1953
- .75/General Arrangement Main Sections/Dwg NY 510-577-U/1953
- .76/Water Drum/Dwg NY 510-658-J/1953
- .77/Arrangement & Details of Front & Rear Waterwall Feeder Tubes/Dwg NY 510-481-D/1953
- .78/Steam Drum/Dwg NY 510-657-G/1953
- .79/Seating Arrangement & Loading Diagram/Dwg NY 510-550-L/1953
- .80/Arrangement of Brickwork & Insulation/Dwg 510-679M/1953
- .81/Arrangement & Details of Rear Waterwall Tubes/Dwg 470-843B/1953
- .82/Arrangement of S.W. Sanitary & Engine Room Service Piping/Dwg 36-S48-3-8/1953

- .83/Washwater Piping in Engine Room/Dwg 36-S48-4-1/1953
- .84/Arrangement of Fuel Oil Service Systems Plan-Elevation/Dwg 36-S55-1-1/1953
- .85/Main Circulation System/Dwg 36-S48-3-1/1953
- .86/Arrangement of Portable Watertank, Drain, Filling & Service Piping in Engine Room/Dwg 36-S48-4-7/1953
- .87/Bilge Piping in Engine Room/Dwg 36-S48-1-1/1953
- .88/Arrangement of Compressed Air Piping/Dwg 36-S48-2-7/1953
- .89/Diagram of Fuel Oil Service System/Dwg 36-S55-1-01/1953
- .90/Arrangements of Fuel Oil Service System Sections/Dwg 36-S55-1-2/1953
- .91/Arrangements D.O. Filling Piping to Galley Range and F.O. Service Hand Pump/Dwg 36-S55-1-9/1953
- .92/Arrangements of Fuel Oil Filling & Transfer System/Dwg 36-S55-1-4/1953
- .93/Arrangements of Bilge, Ballast & Fuel Oil Piping in Forward Pump Room/Dwg 36-S48-3-12/1953
- .94/Arrangements of Boiler Feed Discharge & Boiler Blow Piping, Plan, Elev, & Sect./Dwg 36-S48-2-5/1953
- .95/Modification to Main Feed Piping at Boilers/Dwg 256841/1953
- .96/Arrangement of Boiler Feed Regulator and Compressed Air Piping/Dwg 36-S48-2-8/1953
- .97/Arrangement of Foam System Fire Protection for Engine Room/Dwg 36-S93-1-2/1953
- .98/Diagram of Main Cuc. Water & Clean Ballast System/Dwg 36-S48-3-01/1953
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- .100/Auxiliary Circulating Systems Plans & Sections/Dwg 36-S48-3-3/1953

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- .1/Bulkhead or Deck Stuffing Boxes for Steam & Exhaust Piping/Dwg 36-S48-10-30/1953
- .2/Sway Braces Arrangement & Details/Dwg 36-S48-10-29/1953
- .3/Spring Hangers Arrangement & Details/Dwg 36-S48-10-28/1953
- .4/Heating Coils in F.O. Bunkers/Dwg 36-S48-10-26/1953
- .5/Arrangements of High & Low Pressure Steam Drains Elevations/Dwg 37-S48-10-19/1953
- .6/Arrangements of High & Low Pressure Steam Drains Elevations/Dwg 37-S48-10-18/1953
- .7/Arrangements of High & Low Pressure Steam Drains Plan Views/Dwg 37-S48-10-17/1953
- .8/Misc. Vents & Sounding Tubes in Engine Room/Dwg 36-S48-9-4/1953
- .9/Misc. Vents & Sounding Tubes (Outside of E.R.)/Dwg 36-S48-9- 2/1953
- .10/Arrangements of Plumbing Drains Midship Quarters/Dwg 36-S48-8- 2/1953
- .11/Arrangements of Plumbing Drains in Aft Quarters Elevation, Section & Detail/Dwg 36-S48-8-1/1953
- .12/Arrangement of Plumbing Drains in Aft Quarters Plan & B/M/Dwg 36-S48-8-1/1953
- .13/ 16" Strainer for Ballast System/Dwg 36-S48-3-11/1953
- .14/Condensate Suction Strainers/Dwg 36-S48-2-11/1953
- .15/Details of Compound Feeder Tank/Dwg 36-S48-2-10/1953
- .16/Arrangement of Boiler Fuel Regulator and Compressed Air Piping/Dwg 36-S48-2-8/1953
- .17/Assembly & Detail of Line Shaft Bearing and Cover & Lid/Dwg 36- S45-1-3/1953
- .18/Arrangement & Details Throttle Operating Gear/Dwg 36-S41-1- 2/1953



- .19/Steam Heating System Midship Quarters/Dwg 36-S38-2-3/1953
- .20/Steam Heating System After Quarters Elevations, Sections & Details/Dwg 36-S38-2-2/1953
- .21/Steam Heating System After Quarters Plans & B/M/Dwg 36-S38-2-1/1953
- .22/Suction Strainer Boxes for Bilge Systems/Dwg 36-S48-1-5/1953
- .23/Lube Oil Sump Float & Alarm/Dwg 36-S45-4-2/1953
- .24/Piping in Lube Oil Gravity Tank/Dwg 36-S45-1-6/1953
- .25/Arrangement of Lub. Oil Service Piping Elevation B&M/Dwg 36-S45-1-3/1953
- .26/Arrangement of Lub. Oil Service Piping (Sections)/Dwg 36-S45-1-2/1953
- .27/Arrangement of Lub. Oil Service Piping/Dwg 36-S45-1-1/1953
- .28/Elementary Wiring Diagrams of I.C. Systems/Dwg 36-S65-1-1/1953
- .29/Power Deck Plan Main Deck/Dwg 36-S62-2-3/1953
- .30/Power One Line Diagram & List of Cable Feeders/Dwg 36-S62-2-1/1953
- .31/Lighting Deck Plan Engine Room/Dwg 36-S64-1-2/1953
- .32/Power Deck Plan Top of Aft House/Dwg 36-S62-26
- .33/Lighting Deck Plan Tunnel & Ore Hold/Dwg 36-S64-1-8
- .34/Lighting Deck Plan Poop Deck/Dwg 36-S64-1-5/1953
- .35/Master List of Material & Symbol List-Electrical I.C. Lighting & Power/Dwg 36-S60-5/1953
- .36/Power Deck Plan Poop & Midship House/Dwg 36-S62-2-5/1953
- .37/Arrangement of Navigation Lights & Wiring Diagram & Navigation Lighting Control Panel/Dwg 36-S64-1-9/1953
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- .39/Power Deck Plan Engine Room/Dwg 36-S62-2-2/1953

- .40/List of Nameplates (Power)/Dwg 36-S60-2-1/1953
- .41/Lighting Deck Plan Main Deck Aft & Midship/Dwg 36-S64-1-6/1953
- .42/Lighting Deck Plan Main Deck Forward & Forecastle Deck Main Switchboard Rear View  
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- .43/Lighting Dist Switchboard (Midship House) Main Switchboard Sectional View &  
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- .44/Main Switchboard Structural Front & Rear Views/Dwg 36-S62-1- 0/1953
- .45/Foundations in Engine Room for Aux Condenser, Gear L.O. Cooler, H.P. Feed Heater/Dwg  
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- .46/Aux Machy Foundations on Machy Flat Port/Dwg 36-S11-13-12/1953
- .47/Aux Machy Foundations on Machy Flat Stbd/Dwg 36-S11-13-13/1953
- .48/Aux Machy Foundations Behind the Fr. 62 B40 Manoeuvring Valve, Lp Feed Heater Drain  
Pump, Lub Oil Seperator, Main Air Ejector, Main Lub Oil Cooler, Gland Vapour Condenser, Lp  
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- .49/Forced Draft Blower & Turbine Foundations/Dwg 36-S11-13-16/1953
- .50/Steering Gear Foundations/Dwg 36-S11-13-19/1953
- .51/Aux Foudations in Aft Pump Room/Dwg 36-S11-13-20/1953
- .52/Foundations in Forward Pump Room/Dwg 36-S11-13-21/1953
- .53/Foundations Refrigeration Compressor Room/Dwg 37-S11-13-22/1953
- .54/Foundations of Deck Winch on Upper Deck/Dwg 36-S11-13-23/1953
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- .57/Returned Offsets (After Body)/Dwg 36-S5-3-5/1953
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- .59/Run of Shell Longitudinals & Seams - Aft/Dwg 36-S5-3-6/1953
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- .66/After Peak Framing Sheet no 1/Dwg 36-S11-3-8/1953
- .67/After Peak Framing Sheet no 2/Dwg 36-S11-3-9/1953
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- .69/Transverses 125,126,127/Dwg 36-S11-3-11/1953
- .70/Transverses For 130-133/Dwg 36-S11-3-12/1953
- .71/Fore Peak Framing #1 Transverse & Chain Locker/Dwg 36-S11-3-14/1953
- .72/Fore Peak Framing #2/Dwg 36-S11-3-15/1953
- .73/Fore Peak Framing #3/Dwg 36-S11-3-16/1953
- .74/Floors in Double Bottom Frs 61 to 50/Dwg 36-S11-3-17/1953
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- .76/Quarters Ventilation Poop Deck & Upper Deck Aft/Dwg 37-S38-1-3
- .77/Cargo Hold Hatch Covers/Dwg - /Date -

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**ex Ore Transport**  
**Kure Shipyards/Hull 37/1953**

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- .1/Main Switchboard Structural Front & Rear Views/Dwg 36-S62-1-      0/1953
- .2/Lighting Deck Plan Tunnel & Ore Hold/Dwg 36-S64-1-8/1953
- .3/Power Deck Plan Main Deck/Dwg 36-S62-2-3/1953
- .4/List of Nameplates (Power)/Dwg 36-S60-2-1/1953
- .5/Main Switchboard Rear View Wiring Diagram/Dwg 36-S62-1-1/1953
- .6/Lighting Deck Plan Engine Room/Dwg 36-S64-1-2/1953
- .7/Lighting Deck Plan Main Deck Forward & Forecastle Deck/Dwg 36-      S64-1-3/1953
- .8/Power One Line Diagram & List of Cable Feeders/Dwg 36-S62-2-      1/1953
- .9/Lighting Deck Plan Midship House/Dwg 36-S64-1-4/1953
- .10/Power Deck Plan Engine Room/Dwg 36-S62-2-2/1953
- .11/Main Switchboard Sectional View & Foundation Plan/Dwg 36-S62-1-      2/1953
- .12/Arrangement of Navigation Lights & Wiring Diagram & Navigation      Lighting Control  
Panel/Dwg 36-S64-1-9/1953
- .13/Elementary Wiring Diagrams of I.C. Systems/Dwg 36-S65-1-1/1953
- .14/Power Deck Plan Poop Deck & Midship House/Dwg 36-S62-2-5/1953
- .15/Lighting Dist. Switchboard Midship House/Dwg 36-S62-1-2A/1953
- .16/Power Deck Plan Top of Aft House/Dwg 36-S62-2-6/1953
- .17/Soot Blower Piping/Dwg 36-S48-10-11/1953
- .18/Arrangement Deck Steam & Exhaust Piping/Dwg 36-S48-10-2/1953
- .19/Main Steam Piping Plan Views/Dwg 36-S48-10-1/1953

- .20/Main Steam Piping B&M/Dwg 36-S48-10-3/1953
- .21/Main Steam Piping Elevations & Sections/Dwg 36-S48-10-2/1953
- .22/Arrangements of Aux. Steam Piping Plan Views/Dwg 36-S48-10- 7/1953
- .23/Main Steam Piping Details/Dwg 36-S48-10-5 (Sheet 2 of 2)/1953
- .24/Main Steam Piping Details/Dwg 36-S48-10-4 (Sheet 1 of 2)/1953
- .25/Arrangement Aux. Steam Piping Elevations/Dwg 36-S48-10-8/1953
- .26/Steam & Exhaust Piping in Forward Pump Room/Dwg 36-S48-10- 24/1953
- .27/Arrangement of Auxiliary Exhaust Piping Elevations & B/M/Dwg 36-S48-10-15/1953
- .28/Arrangement of Auxiliary Exhaust Piping Sections/Dwg 36-S48-10- 14/1953
- .29/Arrangement of Auxiliary Exhaust Piping Plan View/Dwg 36-S48- 10-13/1953
- .30/Arrangement of Auxiliary Steam Piping Sections & B/M/Dwg 36- S48-10-9/1953
- .31/Location of Safety Devices/Dwg 36-S93-1-1/1953
- .32/ 2 Closed Roller Chock/Dwg 36-S12-1-2/1953
- .33/ 2 Opened Roller Chock/Dwg 36-S12-1-3/1953
- .34/ 16" Mooring Belt/Dwg 36-S12-1-4/1953
- .35/Fauleader Welded Type 17" Roller/Dwg 36-S12-1-5/1953
- .36/Arrangement & Details of Rails & Stanchions/Dwg 36-S12-2-1/1953
- .37/Bilge Keel/Dwg 36-S11-4-8/1953
- .38/Longitudinal Girders in Double Bottom/Dwg 36-S11-4-12/1953
- .39/Cargo & Walkway Flat & Longitudinal W.T. Bulkhead Flrs 62- 72/Dwg 36-S11-6-4/1953
- .40/Cargo & Walkway Flat & Longitudinal W.T. Bulkhead Flrs 120- 5/1953 128/Dwg 36-S11-6-

- .41/Forecastle Deck Plating & Windlars Foundation/Dwg 36-S11-6- 6/1953
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- .43/List & Details of WT & Air T. Steel Doors/Dwg 36-S16-2-1/1953
- .44/Arrangement & List of Hatch Manhole/Dwg 36-S16-2-2/1953
- .45/Manhole Details/Dwg 36-S16-2-3/1953
- .46/ 4'x4' Raised NWT Hatch Detail/Dwg 36-S16-2-5/1953
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- .48/Roller for Tonnage Opening Door/Dwg 36-S16-2-7/1953
- .49/Detail & List of Vllage Plate/Dwg 36-S16-2-8/1953
- .50/Air Hatch/Dwg 36-S16-2-9/1953
- .51/Portable Plate on Poop Deck Aft/Dwg 36-S16-2-11/1953
- .52/List of Joiner, Wood, Weathertight Screens & Non-Tight Steel Doors/Dwg 36-S16-3-1/1953
- .53/Non-Tight Steel Doors/Dwg 36-S16-3-3/1953
- .54/Details of Joiner Doors/Dwg 29-S16-3-3B/1953
- .55/Ladder Rungs in Tanks/Dwg 36-S16-4-1/1953
- .56/Inclined Ladders Arrangement & Details/Dwg 36-S16-4-3/1953
- .57/Cargo Hatch (Davit)/Dwg 29-S12-5-4/1953
- .58/Propeller & Rudder Lifting Pads/Dwg 37-S12-5-5/1953
- .59/Arrangement & Details for Line Plates on Stern Frame/Dwg 36- S12-17-1/1953
- .60/Deck Covering Arrangement & Detail/Dwg 36-S14-2-1/1953
- .61/Safety Treads/Dwg 36-S14-4-1/1953
- .62/Ladders & Gratings in Engine Room/Dwg 36-S16-1-1/1953

- .63/Ladders & Gratings in Aft Pump Room/Dwg 36-S16-1-2/1953
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- .66/List of Airports & Fixed Light/Dwg 36-S12-3-1/1953
- .67/Details of Galley & Forward Pump Room Skylight/Dwg 36-S12-3-4/1953
- .68/Engine Room Skylight Assembly & Details/Dwg 29-S12-3-5/1953
- .69/Miscellaneous Outfitting Details/Dwg 36-S12-4-1/1953
- .70/Awnings Over on Navigation Bridge Deck/Dwg 36-S12-5-2/1953
- .71/Details of Vertical Ladders/Dwg 36-S16-4-4/1953
- .72/Accommodation Ladder & Gangway Handling Arrangement/Dwg 36-S16-4-5/1953
- .73/Detail of Accommodation Ladder & Gangway Handling Derrick/Dwg 36-S16-4-7/1953
- .74/Details of Accommodation Ladder Stowage and Miscellaneous Fittings/Dwg 36-S16-4-8/1953
- .75/Arrangement & Details of Derrick/Dwg 36-S17-1-1/1953
- .76/Floors in Double Bottom Flrs. 18-50/Dwg 36-S11-3-18/1953

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**Kure Shipyards/Hull 37/1953**

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- .1/Arrangement of Main Switchboard Compartment in Engine Room/Dwg 36-S40-0-4/1953
- .2/Trolley Beams in Engine Room & Shaft Alleys/Dwg 36-S41-6-1/1953
- .3/Chock Arrangement Main Gear/Dwg 36-S42-4-1/1953
- .4/Mooring Arrangement/Dwg 36-S12-1-1/1953
- .5/Foremast & Radar Mast Arrangement & Details/Dwg 36-S17-2-1/1953
- .6/Jack & Ensign Staffs/Dwg 29-S17-2-3/1953
- .7/Rope List/Dwg 36-S18-1-1/1953
- .8/Block List/Dwg 36-S18-1-2/1953
- .9/Miscellaneous Fittings List/Dwg 36-S18-1-3/1953
- .10/Rigging Details for Antennas/Dwg 36-S18-1-4/1953
- .11/Paint Schedule/Dwg 37-S19-1-1/1953
- .12/Details of Rudder Carrier & Gland/Dwg 36-S22-2-2/1953
- .13/Anchor Handling & Hawse Pipe (Bow)/Dwg 36-S26-2-1/1953
- .14/Anchor Handling & Hawse Pipe (Stern)/Dwg 36-S26-2-2/1953
- .15/Details of Bow & Stern Chain Stoppers/Dwg 36-S26-2-3/1953
- .16/List of Lock Key & Label Plate/Dwg 36-S28-3-2/1953
- .17/Notices & Notice Frames/Dwg 29-S28-3-5/1953
- .18/Plimsoll Mark/Dwg 36-S28-3-6/1953
- .19/Hull Marks/Dwg 36-S28-6-1/1953



- .20/Under Deck Tonnage Stations/Dwg 36-S29-11-2/1953
- .21/Details of Misc. Shelving in Store Room/Dwg 36-S30-3-1/1953
- .22/Miscellaneous Furniture/Dwg 29-S33-2-9/1953
- .23/Arrangement of Galley Equipment Foundations & Galley Stock/Dwg 36-S34-1-1/1953
- .24/Sheathing & Insulation/Dwg 36-S39-1-1/1953
- .25/Refrigerated Stores Arrangement & Details/Dwg 36-S59-1-1/1953
- .26/Arrangement of Mechanical Whistle Pull/Dwg 36-S65-1-3/1953
- .27/Misc. Work Benches/Dwg 29-S92-1-3/1953
- .28/Arrangement & Details of Air Filter Cleaning & Charging Station/Dwg 36-S92-1-4/1953
- .29/Arrangement & Details of Bosn's Stores/Dwg 36-S30-3-3/1953
- .30/Arrangement of Main Deck Quarters/Dwg 36-S33-1-3/1953
- .31/List of Furniture & Room Equipement/Dwg 37-S33-2-1/1953
- .32/Arrangement of Poop Deck Quarters/Dwg 36-S33-2-6/1953
- .33/Arrangement of Quarters in Midship House/Dwg 36-S33-2-7/1953
- .34/Arrangement & Details of Engineer's Workshop/Dwg 36-S33-2-8/1953
- .35/General Arrangement Aux Condenser/Dwg 37-M-112-123/1953
- .36/LP Primary Feed Water Heater Arrangement/Dwg 37-M-112-114/1953
- .37/Arrangement of Gear Lube Oil Cooler/Dwg 37-M-112-111/1953
- .38/Arrangement of Lube Oil Coolers #1,2,3,4/Dwg 37-M-112-120/1953
- .39/Deaerating Feed Heater/Dwg 37-M-109-51/1953
- .40/Gland Leak Off Condenser & Exhauster/Dwg 37-M-112-117/1953
- .41/General Arrangement of Main Condenser/Dwg 37-M-112-101/1953

- .42/Arrangement Main & Aux Condensate Piping Sections & Elevations/Dwg 37-S48-2-2/1953
- .43/Label Plates-Hull Piping/Dwg 36-S28-2-2/1953
- .44/List of Engine Label Plates/Dwg 36-S28-2-1/1953
- .45/Arrangement of Compound Feeder & Feedmaster Test System/Dwg 37- S48-2-9/1953
- .46/Arrangement Main & Aux. Condensate Piping Plan B/M/Dwg 36-S48- 2-1/1953
- .47/Details of Rudder Angle Indicator/Dwg 36-S22-1-3/1953
- .48/LP Evaporator/1953
- .49/Lube Oil Purifier Heater/Dwg 5068-1/1953
- .50/Fuel Oil Preheater & Drain Cooler/Dwg 5103-5/1953
- .51/Machinery Flat/Dwg 36-S11-6-8/1953
- .52/W.T. Flat Aft/Dwg 36-S11-6-9/1953
- .53/Oil Tight Flat Frs. 128-134/Dwg 36-S11-6-10/1953
- .54/Pool Deck Plating/Dwg 36-S11-6-11/1953
- .55/Pool Deck House Top Plating/Dwg 36-S11-6-12/1953
- .56/Lower Bridge Dk. Plating Side & End Bulkheads/Dwg 36-S11-7- 1/1953
- .57/Tank Top & W.T. Flat & Longitudinal W.T. Bulkhead 40' Off Centre Line/Dwg 36-S11-6-13/1953
- .58/Midship House Structure/Dwg 36-S11-7-2/1953
- .59/Lube Oil Storage Tank/Dwg 36-S11-7-5/1953
- .60/Heel Piece Frames 18-23 Centre Line of Skeg/Dwg 36-S11-8-5/1953
- .61/H.P. Turbine Support & Gear Case Struts/Dwg 36-S11-13-2/1953
- .62/Aux Machinery Foundations on Tank Top/Dwg 36-S11-13-3/1953

- .63/Aux Machinery Foundations on Tank Top Near Centre Line of Ship/Dwg 36-S11-13-4/1953
- .64/Aux Machinery Foundations on Tank Top Stbd, Aux Condenser Condensate Pump, Aux Condenser Circ. Pump/Dwg 36-S11-13-5/1953
- .65/Foundations for Vap Feed Pump, W.W. Pumps, Sanitary Pumps, Distiller Condenser Cue Pump, Shaft Alley Bilge Pump/Dwg 36-S11/13-6/1953
- .66/Aux Machinery Foundations for L.O. Waste Tank, L.O. Filter, L.O. Purifier, L.O. Pre Heater, Aux Feed Pump/Dwg 36-S11-13-7/1953
- .67/Foundations on High Tank Top, Main Feed Pump, Main F.O. Service Pump, Aux F.O. Service Pump, F.O. Preheater/Dwg 36-S11-13-8/1953
- .68/Aux Machinery Foundations at 22'6" Level and Above Hote Water Heater, Make Up Feed Vap Drain Cooler, Fresh Water Pump, Distillate Condenser-Condensate Pump/Dwg 36-S11-13-9/1953
- .69/Aux Machinery Foundations at 22'6" Level and Above, Fuel Oil Heater, Dist Condensate Cooler, First Effect Tube Nest Drain Pump, Brine Overboard Discharge Pump/Dwg 36-S11-13-10/1953
- .70/Curves of Form/Dwg 36-S29-1-1/1953
- .71/General Deck Arrangement Aft Fr. 92/Dwg 36-S9-0-2/1953
- .72/Diesel Oil Tank for Diesel Generator/Dwg 36-S55-1-7/1953
- .73/Galley Fuel Oil Tank & Light Lube Oil Tank Details/Dwg 29-S55-1-6/1953

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.2/Stability booklet/Dwg - /1968

.2A/Stability booklet/Dwg - /1968

.3/Capacity plan/Dwg - /1981

.3A/Capacity plan/Dwg - /1969

.4/Midship section/Dwg 35-H-194/1962

.4A/Midship section/Dwg 35-H-2/1963

.4B/Midship section/Dwg - /1962

.6A/Profile/Dwg A-29/1951

.17/Machinery arrangement steering gear flat &amp; emergency generator room/Dwg 35-M-1 (Sheet 1)/Date -

.18/Hydrostatic curves/Dwg 35-H-181/1964

.19/Acceptance trial data - machinery &amp; hull/Dwg - /1964

.22/Report on corrosion inspection/Dwg - /1967

.35/Arrangement of riser tubes/Dwg 610328/1967

.36/Details of economizer headers/Dwg 610330/1962

.36A/Economizer pressure part details/Dwg F-165-949/950-?/1943

.36B/Economizer arr'g't/Dwg F-165-899-5/1943

.37/Sections of stud tube economizer &amp; economizer casing/Dwg 610334/Date -

.38/Details of superheater intermediate header/Dwg 610360/1963

- .38A/Details of superheater headers/Dwg F-165-812/1942
- .39/Arrangement of support castings/Dwg 610243/1958
- .40/Details of upper and lower rear wall headers/Dwg 610333/1962
- .41/Arrangement of perforated baffle desuperheater & dry pipe (sht 1 & 2)/Dwg 610365-A & 610366-B/1962
- .42/Arrangement and details desuperheater/Dwg 610373/1963
- .42A/Desuperheater details/Dwg F-165-947-4/1942
- .43/Internal piping/Dwg 610368-B/1962
- .44/Arrangements & sections of front casing/Dwg 610352/1962
- .45/Arrangement & sections of brickpan/Dwg 610341/1962
- .46/Arrangement of economizer casing drum side & baffle/Dwg 610350/Date -
- .47/Arrangement of rear casing/Dwg 610353/1962
- .48/General arrangement/Dwg 610285/1961
- .49/Arrangement of furnace brickwork for floor/Dwg 610422/1962
- .50/Detail of steam drum externals/Dwg 610346/1963
- .51/Arrangement of side wall tubes & header/Dwg 610316/1963
- .51A/Details of side water wall header/Dwg F-165-801/1942
- .52/Arrangement of rear wall tubes & header/Dwg 610323/1963
- .53/Details and sections of side & rear wall headers/Dwg 610331/1962
- .54/Boiler seating/Dwg 610282A/1961
- .55/Detail end plates and supports/Dwg 610371/1962
- .56/Arrangement of Oil Burner Tile - Iowa Burner - 17 13/17" Throat/Dwg 610515/1951
- .57/Arrangement of brick bolt clips for front and rear walls/Dwg 610413/1962

- .58/Arrangement of furnace roof casing/Dwg 610417/1962
- .59/Arrangement and sections of rear S.H . door frames/Dwg 610404/1962
- .60/Arrangement of furnace side casing/Dwg 610386/1962
- .61/Arrangement and details of boiler piping/Dwg 610393/1962
- .62/Arrangement of furnace brickwork rear wall/Dwg 610421/1962
- .63/Arrangement of furnace brickwork front wall/Dwg 610420/1962
- .64/Sectional front view/Dwg 610280/1961
- .65/Arrangement of floor tubes/Dwg 610318/1963
- .66/Arrangement of generator & Screen Tubes/Dwg 610289/1963
- .67/Arrangement of superheater support & curtain tubes/Dwg 610326/1963
- .68/Arrangement of superheater/Dwg 610332/1963
- .69/Dry drum arrangement and details/Dwg 610449/1964
- .70/Dry drum support brackets/Dwg 610452/1064
- .71/Dry drum baffle assembly/Dwg 610455/1964
- .72/Section thru soot blower opening in front wall/Dwg 216140/1962
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- .77/Section thru front wall at floor/Dwg 216135/1962
- .78/General arrangement of burners/Dwg 216133/1962
- .79/Section showing corner const. at upper rear wall hdr./Dwg 216132/1962

- .80/Section showing brick bolt attachment on division wall/Dwg 216131/1962
- .81/Section showing brickwork attach. at front & rear wall/Dwg 216130/1962
- .82/Detail of corbel anchor sheets/Dwg 216128/1963
- .83/Section showing corner const. at lower rear wall/Dwg 216127/1962
- .84/Section showing corner const. at side wall/Dwg 216126/1962
- .85/Drain opening in lower refractory baffle/Dwg 216125/1962
- .86/General arrangement of furnace uptake wall/Dwg 216124/1962
- .87/Section showing corner const. at side wall/Dwg 216123/1962
- .88/Protection baffle for steam drum/Dwg 216122/1963
- .89/Section showing corner const. at side wall 1962/Dwg 216121/1962
- .90/Sections thru rear wall at superheater/Dwg 216119/1962
- .91/Section thru rear wall at superheater/Dwg 216118/1962
- .92/Detail of brickwork attachments/Dwg 216117/1958
- .93/Piping for truscale remote W.L. Indicator/Dwg 216107/1963
- .94/Details of external boiler connections/Dwg F-165-816/1942
- .95/Outline and external connections of boiler/Dwg MX-253503-12/1942
- .96/Details of steam drum/Dwg F-165-809/1942
- .97/Details of water drum/Dwg F-165-802/1942
- .98/Steam generator data, tube data, weights per boiler/Dwg F-165-803
- .99/Control schematic for single burner-oil fired/Dwg BO-22-00044- 1/1975
- .100/Electrical power single line diagram/Dwg 11695A-E-1/1980
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.200/Tunnel ventilation/Dwg 35-H-218/1965



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 ex CANADIAN HIGHLANDER  
 ex CAPE BRETON HIGHLANDER  
 ex M.V. THORSRAKE  
 Furness Shipbuilding/Hull No. 526/1129

**Accession #/Title/Drawing #/Date**

- .1/General arrangement/Dwg T-06686/1969
- .1A/General arrangement M.V. THORSRAKE/Dwg - /1976
- .2/Capacity plan/Dwg - /1967
- .3/Midship section/Dwg 10282/1976
- .4/List of auxiliaries/Dwg - /Date -
- .5/Boiler drawing/Dwg V26099A/1965
- .6/Profile & decks/Dwg 1000-C/Date -
- .7/Docking plan/Dwg - /1967
- .8/Cross curves of stability/Dwg - /1961
- .9/Grain arrangement plan/Dwg - /1967
- .10/Inclining experiment & lightweight determination of M.V. Thorsdrake/Dwg - /1957
- .11/Deadweight scale/Dwg - /1967
- .86A/Hi Pressure And Low Pressure Arrangement On Nav. Br. And Wireless Off. Deck/Dwg T-O  
6450/1966
- .86B/Hi Pressure And Low Pressure Arrangement On Captains Deck/Dwg T-O 6451/1966
- .86C/Hi Pressure And Low Pressure Arrangement On Officers Deck/Dwg T-O 6452/1966
- .86D/Hi Pressure And Low Pressure Arrangement On Poop Deck/Dwg T-O 6453/1966

- .87E/Hi Pressure And Low Pressure Arrangement On Upper Deck/Dwg T-O 6454-A/1966
- .101/Camshaft arrgt with starting air relay/Dwg RE 1-46/Date -
- .102/Big end bearing/Dwg RE 2-05/1952
- .103/Chain adjuster/Dwg RE 2-10/1952
- .104/Crankshaft/Dwg RE 2-96/1967
- .105/Connecting rod/Dwg RE-308/1966
- .106/Starting air relay complete/Dwg RE 3-60/1966
- .107/Starting air valve complete/Dwg RE 4-10/1966
- .108/Starting air main valve complete/Dwg RE 4-41/1966
- .109/Big end bearing (based on G.P.B. 211/3)/Dwg 5-16/1966
- .110/Oil regulating valve/Dwg LE 9-72/1966
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- .112/Fuel oil pump movement/Dwg RE 26/90/1966
- .113/Camshaft arrgt with starting air relay/Dwg RE 30-36/1966
- .114/Controller arrangement/Dwg RE 30-70/1966
- .115/Indicator and safety - valve complete/Dwg RE 41-89/1966
- .116/Crankshaft/Dwg R 60-00/1965
- .117/Arrangement racing governor/Dwg RE 60-08/1966
- .118/Starting air relay complete/Dwg RE 62-72/1966
- .119/Thrust main bearing shell (based on G.P.B. 232/1)/Dwg RE 63- OO(A3)/1966
- .120/Main bearing shell (based on G.P.B. 2/2/2)/Dwg RE 64-00/1966
- .121/Lubricating oil pump pressure pump/Dwg RE 64-00/1966

- .122/Arrangement turbo charger BB VTR 200/Dwg RE 64-11/1966
- .123/Governor element Heinzmann/Dwg RE 64-64/1966
- .124/Operating house/Dwg RE 70-49/1966
- .125/Crankshaft assembly/Dwg RE 75-04
- .126/Reciprocating parts working cylinder/Dwg RE 75-26/1966
- .127/Governor assembly/Dwg RE 80-18/1966
- .128/Piping arrangement starting air pipes, lubrication pipes/Dwg RE 80-42/1966
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- .541/Unloading switchboard & M.C.C. cable transits, section "A" & "AR" (sht 1)/Dwg 701-003/Date -
- .542/Unloading switchboard & M.C.C. cable transits, section "BF" & "BR" (sht 122)/Dwg 701-003/Date -
- .543/Unloading switchboard & M.C.C. cable transits, section "CF" (sht 123)/Dwg 701-003/Date -
- .544/Unloading switchboard & M.C.C. cable transits, section "DF" (sht 124)/Dwg 701-003/Date -
- .545/Unloading switchboard & M.C.C. cable transits, section "EF" (sht 125)/Dwg 701-003/Date -
- .546/Unloading switchboard & M.C.C. cable transits, section

- "FF" (sht 126)/Dwg 701-003/Date -
- .547/Unloading switchboard & M.C.C. cable transits, section  
"GF" (sht 127)/Dwg 701-003/Date -
- .548/Unloading switchboard & M.C.C. cable transits, section  
"HF" & "HR" (sht 128)/Dwg 701-003/Date -
- .549/Unloading switchboard & M.C.C. cable transits, section  
"JF" & "JR" (sht 9)/Dwg 701-003/Date -
- .550/Unloading control room (sht 10)/Dwg 701-003/Date -
- .551/Unloading control room (sht 11)/Dwg 701-003/Date -
- .552/Cable transits at bulkhead 212 (sht 12)/Dwg 701-003/Date -
- .553/Cable transits at bulkhead 212 forward (sht 13)/Dwg 701- 003/Date -
- .554/Cable transits at bulkhead 212 aft (sht 14)/Dwg 701-003/Date -
- .555/Cable transits at bulkhead 212 aft (sht 15)/Dwg 701-003/Date -
- .556/Cable transits at generator #1 (sht 16)/Dwg 701-003/Date -
- .557/Cable transits at generator #2 (sht 17)/Dwg 701-003/Date -
- .558/Cable transits bridge front (sht 18)/Dwg 701-003/Date -
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- .560/Cable transits tunnel apex fr 128 (stbd) (sht 20)/Dwg 701- 003/Date -
- .561/Cable transits tunnel apex fr 128 (stbd) (sht 21)/Dwg 701- 003/Date -
- .562/Cable schedule/Dwg 702-001/1979
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.567/Arrangement of circuits miscellaneous panel LP4 (sht 5)/Dwg	703-001/1979
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.574/J.B.-3 Junction box connection diagram (sht 3)/Dwg	712-002 1/1979
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.577/J.B.-6 Junction box connection diagram (sht 6)/Dwg	712-002 1/1979
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.579/J.B.-8 Junction box connection diagram (sht 8)/Dwg	712-002 1/1979
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.582/Unloading control console terminal bar connection (sht 1)/Dwg	712-003 1/1979
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.585/Unloading control console terminal bar connection (sht 4)/Dwg	712-003 1/1979
.586/Unloading control console terminal bar connection (sht 5)/Dwg	712-003 1/1979
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.591/Boom electrical equipment block wiring diagram/Dwg 712-008	0/1979
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.593/Fixed structure junction boxes connection diagram (sht 2)/Dwg	712-009 0/1979
.593A/Remote alarm panel & generator connections (sht 2)/Dwg 712-	012 0/1980
.594/Fresh & SW cooling-air starting D0 service, F0 filling-mod to comp air-diesel exhaust & crankcase vent, etc./Dwg 903-001	0/1979
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**Frank A. Sherman**  
**Port Weller/Hull 25/1958**

**1995.26.38**

**Accession #/Title/Drawing #/Date**

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**Goderich**  
**ex Pathfinder**

**1995.26.38**

**Detroit Shipbuilding/Hull 66/1906**

**Accession #/Title/Drawing #/Date**

- .1/Hydrostatics/dwg - /1968
- .2/Shell expansion/dwg 9/1906
- .2A/Shell expansion/dwg 66-H-2/1906
- .3/Midship section/dwg 3/1905
- .4/Ventilation details/dwg 66-H-73/1956
- .5/Detail of coal bunker slope plates/dwg 5/1949
- .5A/Detail of coal bunker slope plates/dwg 6/1949
- .6/ 9 Ton Day bunkers/dwg 3/1949
- .7/Coal bunker alterations/dwg 7/1949
- .7A/Coal bunker alterations/dwg A/1949
- .7B/Bunker alterations/dwg 1/1949
- .8/After coal bunker blkhd/dwg 2/1949
- .8A/Bulkhead No. 190/dwg 14-317/1905
- .9/Boiler room floor/dwg 12-6-1646/1946
- .10/Boiler room grating & stairs/dwg 12-4-1646/1946
- .11/Mooring winch/dwg E810-1A/1937
- .12/Mates pump 7 x 4.5 x 10/dwg 3920/1951
- .13/ #9 Redler conveyor details/dwg 4/1949
- .14/Conveyor drive detail/dwg 10/1949

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- .15/Crusher detail/dwg 8/1949
- .16/Proposed conveyor & bunker changes/dwg 2-H-10/1948
- .17/Proposed 60 KW installation/dwg 1-20-82/1947
- .18/Crankshaft/dwg 90-352/1942
- .19/Line shafting/dwg 90-62/1904
- .20/Details of air pump gear/dwg 70-41/1904
- .21/Diesel gen. installation/dwg 979-404-6/1957
- .22/Main engine general arrgt/dwg - /1905
- .23/Main engine foundation/dwg 15/1906
- .24/Main engine bedplate/dwg 4386/1904
- .25/Piston rod & crosshead/dwg 80-42/1904
- .26/Pistons/dwg 87-35/1904
- .27/Eccentrics & scraps/dwg 3996/1902
- .28/Eccentric rods & links/dwg 4383/1904
- .29/LP valve/dwg 2308/1904
- .30/IP valve/dwg 4446/1905
- .31/HP valve, stem, guide & chest covers/dwg 88-33/1904
- .32/HP valve, stem, guide & covers/dwg 33-33/1904
- .33/General drawing of engine/dwg -/1905
- .34/Detail of crankshaft/dwg 2-1/1942
- .35/Engine & boiler piping/dwg 62-101/1906
- .36/Boiler installation/dwg 39A-1/1967

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.37/Boilers/dwg E-902/1940

.37A/Main boilers/dwg 10-1-1624/1939

.38/Steam piping - profile (sht 1)/dwg 13-1-1646/1946

.39/Main steam pipe (sht 2)/dwg 13-2-1646/1946

.39C/Steam piping - section (sht 5)/dwg 13-1-1646/1941

.40/Main steam supports/dwg 13-16-1625

.41/Steam piping plan (sht 3)/dwg 13-1-1646/1941

.41A/Steam piping section (sht 5)/dwg 13-1-1646/1941

.42/Water piping section (sht 6)/dwg 13-1-1646/1941

.42A/Water piping plan (sht 4)/dwg 13-1-1646/1941

.42B/Water piping profile (sht 2 )/dwg 13-1-1646/1941

.43/Feed & filter tank/dwg 133-465/1947

.43A/Feed & filter tank, float operating gear/dwg 133-466/1947

.44/Throttle/dwg 6-6/1941

.45/ 8" Throttle flange/dwg 6-6/1941

.46/ 6" Main stop valve/dwg 11-6-1119/1925

.47/ 3" x H Cast steel heater bypass/dwg 19/1939

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.49/Detail of stool for twin safety valves/dwg 13-2/1939

.50/ 2" x H Cast steel boiler feed stop/dwg 11-12-1625/1939

.51/Special tee - 8" x 6" x 6" for main steam line/dwg 13-2-1625/1940

.52/Specifications 80 KW, 120 Volt, DC dead-front switchboard/dwg - /1947

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- .52A/ 60 KW piping - section/dwg MC14314
- .52B/Specifications installation of (2) 60 KW turbine-driven generators & (1) DC dead-front switchboard/dwg - /1947
- .53/Sectional elevation/dwg MC14313
- .54/Flow diagram/dwg MC14310/1948
- .55/Plan above eng. deck/dwg MC14311
- .56/Piping plan below engine deck/dwg MC14312
- .57/Gen. condenser arrgt/dwg -/1947
- .57A/Piping layout for 300 gen. condensing plant/dwg C1251/1944
- .58/Erection layout of ash gun/dwg 8-8-1646/1941
- .59/Diag. of sanitary filling arrgt/dwg 65-688/1955
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- .60A/Bill of material arrg't of cabin piping forward/dwg -/1955
- .61/Ballast piping/dwg 99-161/1906
- .61A/Ballast piping standard details/dwg 1-M-51/1956
- .61B/Ballast piping renewal/dwg 979-608/1956
- .61C/Alterations lightening holes & ballast pipes/dwg - /1906
- .62/Main boilers/dwg 10-1-1624/1939
- .62A/Boiler & engine piping/dwg - /1956
- .63/F.D. Fan data/dwg - /1940
- .64/Eng order telegraph/dwg 101-839/1954
- .65/Scotch boilers/dwg 10-1-1624/1939
- .66/Boiler saddles/dwg H-1/1941

- .67/Stack supports & boiler saddles/dwg H-1/1941
- .68/Boiler mountings/dwg 11-14-1645/1940
- .69/Boiler lagging/dwg 11-17-1625/1940
- .70/Internal surface blow/dwg 11-17-1625/1941
- .71/Assembly & details for smoke box doors/dwg 12-2-1625/1940
- .72/Water column/dwg 19/1916
- .73/Forged steel lug for boiler saddles/dwg 10-2-1624/1940
- .74/Scotch marine boilers/dwg 12421FS/1940
- .75/Arrgt stokers (proposed)/dwg 12421FS/1941
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- .76/Air heater for forced draft/dwg 12-2-1646/1940
- .77/Breeching & induced draft/dwg 12-2-1646/1940
- .78/FD fan & ducts/dwg 12-8-1646/1941
- .79/Stack/dwg 12-1-1646/1940
- .80/Flue blower/dwg 11-13-1646/1940
- .81/Smoke indicator/dwg 600FW/1936
- .82/Fly ash return/dwg 12421-D5/1940
- .83/Smoker bridgewall/dwg 12421-D6/1940
- .84/Boiler & engine Pi/dwg 5-26-06/1906
- .85/Proposed conveyor & bunker changes/dwg 2-H-1-/1948
- .86/Arrangement sketches/Dwg - /Date -
- .87/Ryertex thrust collar/dwg 26691/1956

- .88/Bronze wheel (sht 1)/dwg 2-M-26/1951
- .88A/Bronze wheel (sht 2)/dwg 2-M-15/1949
- .89/Propeller (Old)/dwg 4468/1905
- .90/Stern tube/dwg 91-168/1946
- .90A/Stern tube/dwg 91-29/1907
- .91/Thrust bearing & braces/dwg 4399/1924
- .92/Thrust shaft/dwg 90-62/1904
- .93/Shafting/dwg 90-62/1904
- .93A/Line shafting/dwg 90-62/1904
- .94/General drawing of engine/dwg - /1905
- .95/Rudder carrier br'g./dwg 21/1902
- .96/Stern post forging/dwg - /1903
- .97/Hatch reconstruction midship section/dwg H-1/1944
- .97A/Hatch cover details/dwg H-5/1945
- .97B/Hatch coamings & deck details/dwg 1745H-4/1945
- .98/Existing hatch locations/dwg - /1966
- .98A/Existing hatch combing & crane rail/dwg - /1966
- .99/Proposed new channel tank top & lower strake side tank plating/dwg 3-H-61/1956
- .99A/Specifications covering renewal of tank top & ballast piping/dwg - /1956

**Goderich                      1995.25.39**  
**Detroit Shipbuilding/Hull 66/1948**

**Accession #/Title/Drawing #/Date**

- .100/Aft cabin steel plan/Dwg 2/1948
- .100A/Specifications covering reconstruction of aft cabins, coal bunker alterations, & relocation of coal handling equip./Dwg - /1948
- .100B/Reconstruction of after cabins/Dwg 1/1948
- .101/Detail of ordinary frame/Dwg - /Date -
- .102/Crew quarters aft/Dwg - /Date 1948
- .103/Aft accommodation/Dwg - /1966
- .103A/Proposed aft cabin arrgt./Dwg 2-H-9/1948
- .104/Tank top & hopper side/Dwg 8/1906
- .105/Bulkheads transom & floors for'd/Dwg 12/1906
- .106/Specifications for reconstruction of for'd cabins/Dwg - /1955-                      1956
- .106A/Reconstruction for'd quarters/Dwg 3-H-57/1955
- .107/New fuel oil tanks in existing coal bunker space/Dwg - /1972
- .108/Screen bhds at frs 57, 89 & 121/Dwg H-2/1945
- .109/Steel doors - foc'sle blkhd/Dwg - /1937
- .110/Profile & deck plans/Dwg 10/1906
- .111/Steel plan dunnage deck/Dwg D165HS1162/1955
- .111A/Steel bulkhds on dunnage deck/Dwg D165HS1151/1955
- .111B/Arrgt - Dunnage deck/Dwg D165HS3314/Date -
- .112/Arrgt New pilot house/Dwg D165HS3311/1955



- .113/Steel plan deck house for'd/Dwg D165HS1171/1955
- .114/Steel plan foc'sle deck/Dwg D165HS1163/1955
- .115/Arrangement new pilot house/Dwg D165HS3311/1955
- .116/Steel plan pilot house/Dwg D165HS1172/1965
- .117/Arrgt spar deck for'd/Dwg D165HS3313/Date -
- .118/Arrgt foc'sle deck for'd/Dwg D165HS3312/Date -
- .119/Paint schedule/Dwg D165HS1401/Date -
- .120/Deck covering/Dwg D165HS1401/1956
- .121/Label plates/Dwg D165HS2801/1956
- .122/Airport & berth curtains/Dwg D165HS3361/1956
- .123/Airport casing details/Dwg D165HS3913/1955
- .124/Pilothouse window covers/Dwg 165HS1231003/1955
- .124A/Pilothouse windows crank operated/Dwg KS2981/1951
- .124B/Pilothouse window fixed/Dwg D165HS1231002/1955
- .124C/Pilothouse window spring balanced/Dwg D165HS1231001/1955
- .125/ 25" x 25" Weathertight access door/Dwg G438HS1621011A/Date -
- .126/Non weathertight door/Dwg D165HS163101/1951
- .127/Wardrobe locker details/Dwg D165HS3912/1955
- .128/Bathroom supply cabinet/Dwg D165HS361102/1956
- .129/Typical joiner details/Dwg D165HS3911/1955
- .130/Outside stairs & railings/Dwg D165HS1641B/1955
- .131/Inside stairs, gratings, & railings/Dwg D165HS1642A/1956

- .132/New foremast/Dwg D165HS1721A/1956
- .133/Bow roller chock/Dwg D165HS1119/1953
- .133A/ 5250 Gallon potable water tank/Dwg D165HS363103/1953
- .134/Rain visor/Dwg 165HS1231/1956
- .135/Steel bhds spar dk for'd/Dwg D165HS1152A/1955
- .135A/Steel plan spar dk for'd/Dwg D165HS1161/1955
- .136/Crane rail stool/Dwg - /Date -
- .137/Scuttle hatch & ladder/Dwg 1745H7/1945
- .138/Hatch const. midship sec./Dwg 1745H1/1945
- .139/Cabin plan/Dwg 25/1906
- .140/Mainmast/Dwg S1721/1949
- .141/Aft cabin reconstruction/Dwg 3/1949
- .142/Hatch coamings & deck details/Dwg H-4/1945
- .143/Gyro room/Dwg 1035/1949
- .144/ 3 screen bhd's/Dwg 1745 H-2/1945
- .144A/Proposed screen bhd/Dwg - /1944
- .145/Fwd end of side tanks as rebuilt/Dwg - /Date -
- .145A/Side tank reconstruction/Dwg H-1/1936
- .146/Detail of bulwark brkt for type "B" fairlead/Dwg 425/1948
- .147/Rewiring - one line/Dwg MC1434/1948
- .148/Cable plan layout changes/Dwg MC144/1948
- .149/Plan - galley power & cabin wiring spar dk aft/Dwg MC136/1947

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- .150/Voice tubes/Dwg 165HS6501/1955
- .151/IC system wiring deck plans/Dwg 101-884/1955
- .152/Elementary IC wiring diagram/Dwg 101-883/1955
- .153/Lighting system for'd pilot house & foc'sle dk plans/Dwg 101- 881/1955
- .153A/Lighting system for'd spar dk & below - deck plans B/P List/Dwg 101-882/1955
- .154/Boiler Plan List/Dwg - /1941

**Gordon C. Leitch                      1995.26.39**  
**Midland Shipyard/Hull 35/1952**

**Accession #/Title/Drawing #/Date**

- .155/Lettering On Hull/Dwg - /1952
- .156/Propeller/Dwg - /Date -

**Meaford                      1995.26.39**  
**Great Lakes Engineering Works/Hull 20/1906**

**Accession #/Title/Drawing #/Date**

- .157/Midship Section/Dwg 20-201/1905
- .158/New Lifeboat Arrangement/Dwg GEW 20-582-0-1/1957
- .159/As Fitted Accommodation/Dwg - /Date -
- .160/Hull Modification/Dwg - /1967
- .161/Alterations To After Deck House Roof/Dwg GL 22 H-S11-6-2/1951
- .162/Steel Plan - Pilot House And Texas/Dwg 20-207/1906
- .163/Alterations And Additions - Tank Top/Dwg H-1/1936
- .164/Alterations And Additions - New Dunnage Deck/Dwg H-4/1936

- .165/Alterations And Additions - Bulkhead #29 & Stairway To Main Deck/Dwg H-6/1936
- .166/Forward Joiner Plan - Forecastle Deck, Pilot House And Texas/Dwg 20-307/1906
- .167/Diagonal Design Channel Tank Top For S.S. Lasalle/Dwg - /1935
- .168/Transverse And Diagonal Design Channel Tank Top For S.S. - Lasalle/Dwg - /1935
- .169/New Ballast Tank Vent Pipes/Dwg - /1967
- .170/Deck Construction/Dwg - /Date -
- .171/Deadweight Calculations/Dwg - /1973

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- .1/General Arrangement plan/Dwg - /1964
- .2/Midship Section/Dwg - /1964
- .3/Capacity Plan/Dwg - /1965
- .4/Upper Deck Plating (sht 1)/Dwg - /1964
- .5/Upper Deck Plating (sht 2)/Dwg - /1964
- .6/Docking Plan/Dwg - /1965
- .7A/Permanent Repairs to Upper dk. IWO Hatch Coamings/Dwg - /1976
- .8/Sanitary Water System/Dwg - /1965
- .16/Lubricating Oil Diagram/Dwg - /1964
- .25/Lub Oil Piping Arrangement/Dwg - /1964
- .26/Overboard Discharges/Dgw - /1964
- .31/Tunnel Ventilation/Dwg - /1965
- .32/Stability Curves/Dwg - /Date -
- .33/Hydrostatic Curves/Dwg - /1965
- .39/Bonjean Curves/Dwg - /1965
- .43/Ventilation Plans/Dwg - /1965
- .44/Proposed Cargo Hold Ventilation & Gas Detection System/Dwg - /1967
- .46/Main Engine Seating Plan/Dwg T242E019/1964
- .47/General Assembly of Main Machinery/Dwg T256J 061/1964

- .48/Sectional Arrangement of HP Turbine/Dwg 277J 013/1964
- .49/Control Valve with Top Mounted Hanowheel/Dwg C4967/1964
- .50/Diagrammatic Layout of Emergency Control System/Dwg C 14966/1964
- .51/Emergency Governor/Dwg 52/1954
- .52/ 1/2" to 10" Flanged Cast Steel & Cast Stainless Steel/Dwg - /1962
- .53/High Lift Safety Valve/Dwg T253C016/Date -
- .54/Guide column/Dwg T202B132/1956
- .55/Limit Relay/Dwg T226B015/Date -
- .56/Unloader/Dwg T226B014/Date -
- .57/Half Plan and Section of HP Turbine/Dwg T277J013/1964
- .58/Sectional Arrangement of LP Turbine 9000 SHP/Dwg T277J014/1964
- .59/Arrangement of LP Turbine/Dwg T277J014/1964
- .60/HP Turbine Mountings/Dwg T256K050/1962
- .61/LP Turbine Mountings/Dwg T256K051/1964
- .62/Gearcase Mountings/Dwg T282K016/1964
- .63/HP and LP Flexible Coupling cover/Dwg T241K004/1957
- .64/HP and LP Cylinder Support and Rotor Lifting Guides/Dwg T247F003/1957
- .65/Gearcase Mountings/Dwg T282J080/1964
- .66/ 6" Self Closing and Emergency Stop Valve/Dwg X-42292-36/1964
- .67/Pneumatrol Control Panel/Dwg T226E011/1964
- .68/Arrangement of 5" Astern and Astern S0 Manoeuvring valves/Dwg T226K007/1964
- .69/Arrangement of 6" Ahead Manoeuvring Valve/Dwg T226K006/1964
- .70/Bridge Gauges for Gearing/Dwg T282J075/1964

- .71/Turning Gear/Dwg T282K045/1962
- .72/Turning Gear/Dwg T282K044/1962
- .73/Turning Gear/Dwg T282K043/1962
- .74/Gearing Easing Gear/Dwg T282J074/1964
- .75/Gearing Easing Gear/Dwg T282J072/1964
- .76/Gearing Easing Gear/Dwg T282J073/1964
- .77/Main Gear Case/Dwg T282J071/1964
- .78/Gearing Bearings/Dwg T282J070/1964
- .79/Details of Gearing/Dwg T282J078/1963
- .80/Thrust Block for Main Gear Case/Dwg T282E066/1963
- .81/Details of Gearing/Dwg T282J067/1963
- .82/Primary Wheel Thrust Block/Dwg T282J068/1964
- .83/Quill Shaft & Flexible Couplings/Dwg T282J069/1963
- .84/Gearing Basis Plans (sht 1)/Dwg T282J063/Date -
- .85/Gearing Basis Plans (sht 2)/Dwg T282J063/1963
- .86/Arrangements and Details of Easing Gear/Dwg T252K010/1957
- .87/Diagrammatic Arrangement of Lub Oil Piping for Two Cylinder Turbine and Gear Case/Dwg T256D063/1962
- .88/Detailed Arrangement of Lagging and Cleading for HP Turbine Cylinder/Dwg T245F001/1957
- .89/Inter-Connecting and Emergency Piping Arrangement/Dwg T233K019/1962
- .90/Spring Supports for Main Condensor/Dwg T395D007/1964
- .91/Arrangement of 8890 sq.ft. Condensor/Dwg T388D078/1964

- .92/Adjusting Gear for HP and LP Turbine/Dwg T252K012/1957
- .93/HP and LP Flexible Coupling/Dwg T241K003/1957
- .94/Gland Sealing Gear for Water Testing LP Cylinder/Dwg T241K003/1957
- .95/Gland Sealing Gear for Water Test, HP Cylinder/Dwg T252D026/1957
- .96/Emergency Trip Governor with Fore and Aft Movement Indicator and Control/Dwg 41-3960-54/1964
- .97/Hatch Cover Crane/Dwg BL-7793-2/1965
- .98/Shell Expansion & Framing Plan/Dwg 37-H-4/1964
- .99/Arrangement of Firebrick on Screen Tubes (Steam Drum End)/Dwg 610468/1964
- .100/Equipement Arrangement of Superheater/Dwg 610432/1964
- .101/Detail of Flat Stud for Field Application/Dwg 118732/1964
- .102/Arrangment of Firebrick on Screen Tubes(Water Drum End)/Dwg 610467/1964
- .103/Midship Section/Dwg 37-H-1/1964
- .104/Permanent Repairs to Upper Deck I.W.O. Hatch Coamings/Dwg 2248-500/1976
- .105/Capacity Plan/Dwg 37-H-136/1965 & 1969
- .106/Line Part Hold 1/Dwg 7-274/1977



**POINTE NOIRE**  
**Lorain/Hull 791/1926**

**1995.26.41**

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- .2/Framing Details/Dwg 5141-1/1937
- .3/Assembly & Details of Top Frame/Dwg L105556/1925
- .4/Reconstruction in Boiler Room Sectional View/Dwg 10050B/1938
- .4A/Reconstruction in Boiler Room Longitudinal View/Dwg 10050A/1938
- .5/Plan of Boiler Seatings/Dwg - /1925
- .6/Superheater Tubes & Boxes/Dwg 1593983/1956
- .7/Assembly of Superheater/Dwg 1594150/1956
- .8/Side Frame/Dwg 1593372/1956
- .9/Arrangement of Side Tiles/Dwg 1593700/Date -
- .10/Stoker Arrangment/Dwg 12229/Date -
- .11/Arrangmeent of Baffles and Bricks/Dwg 1593693/Date -
- .12/Assembly and Detail of Rear Upper Baffles/Dwg 1594140/1925
- .13/Internal Arrangement of Drum Baffles/Dwg 1593590/1925
- .14/Extent of Baffles and Bricks/Dwg - /Date -
- .15/Front Upper Baffles/Dwg 159355/1925
- .16/Drumshell Development & Buttstraps/Dwg 1593613/1925
- .17/Drum Shell Development/Dwg 1594132/1925
- .18/Lower Water Box Side/Dwg 1593261/1925
- .19/Drum External/Dwg 1594125/1925

- .20/Elbow and Spray Pan/Dwg 1500041/1924
- .21/Method of Expanding Tube Nipples/Dwg 1378840/1924
- .21A/Expander in Correct Positions for Rolling Tubes and Nipples of Shipping Board Boilers/Dwg 1138440/Date -
- .22/Arrangement of Drip Piping for Water Gages and Gage Cocks/Dwg 1593561/1925
- .23/Internal Arrangement of Drum Piping/Dwg 1593580/1925
- .24/Water Column and Drip Piping/Dwg 1593602/1925
- .25/Breeching Opening/Dwg 1593231/1925
- .26/Drum External/Dwg 1593572/1925
- .27/Furnace Brickwork/Dwg 1593731/1925
- .28/Centre Section/Dwg - /Date -
- .29/Back Plate & Rear Header Support/Dwg 1593460/Date -
- .30/General Arrangement/Dwg - /1926
- .31/ 8" Throttle Valve/Dwg 76-381/1924
- .32/HP IP LP Pistons/Dwg 87-157/Date -
- .33/Valve & Eccentric Setting/Dwg 109-86A/1927
- .34/Connecting Rod/Dwg 80-136/Date -
- .35/Ballast & Injection Piping Engine Room/Dwg 99-488/Date -
- .36/Shafting/Dwg 90-230/1925
- .37/Top Rudder stock/Dwg C-362/1967
- .38/RaiSide Control Details/Dwg M-680/1962
- .39/Panel Layout/Dwg R-6942/1927

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.40/Midship Section/Dwg 20-201/1905

.41/Proposed Modifications to Hold Bulkheads/Dwg - /1970

.42/Screen Bulkheads/Dwg 20/1922

.42A/Screen Bulkheads no. 75-123/Dwg 20/Date -

.42B/Half Section of New Screen bhd. at frs 59, 99 & 139/Dwg - /1970

.43/Screen & End Slope bhds, Arches, Scuttles & Walkways/Dwg 982-1063A/1955

.44/Bulkhead no. 25/Dwg 21/1922

.45/Longitudinal Section Tank Top and Butt Plan/Dwg 20-202/1955

.46/Plan View of Tank Top/Dwg - /Date -

.47/Tank Top Details/Dwg 982-1061/1955

.48/New Side Tank Details/Dwg 982-1062/1955

.49/WT bhd no. 172 & Coal Bunker Floor/Dwg 22/1922

.50/After Cabin Plan/Dwg 25A/1924

.51/Shell Expansion/Dwg 9/1922

.52/Proposed Oil Fuel Tank/Dwg - /1978

.52A/New Fuel Oil Tanks in Existing Coal Bunker Space/Dwg - /1971

.53/Fuel Oil Tank and Alterations to bhd 162, 163/Dwg GL21HS5501C/1950

.54/Changes in Cargo Hold Details for Admeasurement Photographs & Correspondence/Dwg - /1956

**R. Bruce Angus****1995.26.42  
ex Imperial Redwater**

Converted.Collingwood/-/1954

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- .1/General Arrangement/Dwg - /1971
- .2/Docking Plan/Dwg 151-C-41/1954
- .3/Capacity Plan/Dwg - /1970
- .4/Midship Section/Dwg 151-C-3/1953 & 1955
- .5/Line Plan/Dwg - /Date -
- .6/Trial Results Summary/Dwg H-1825/1951
- .7/Imperial Redwater Conversion 1/16" Scale Arrangement/Dwg 151-C-151/1953
- .8/Relocation of Midship Deckhouse/Dwg 151-C-2/1953
- .9/Further Modifications to For'd Houses etc./Dwg 151-C-30/1954
- .10/Modifications to Midship Deckhouse/Dwg 151-C-6/1953
- .11/Fo'c'le Partitions etc./Dwg 151-C-9/1954
- .12/Tank Top/Dwg 151-C-7/1953
- .13/Former O.T. Bulkheads/Dwg 151-C-11/1953
- .14/Side Tank Bulkheads/Dwg 151-C-10/1953
- .15/Longitudinal/Dwg 151-C-2/1953
- .16/W.T. Bulkheads 57/59 & 116/Dwg 151-C-21/1954
- .17/Screen Bulkheads/Dwg 151-C-16/1953
- .18/After Boat Deck Plating/Dwg 151-C-15/1953
- .19/Extension to F.W. Tank on W.T. Flat Aft/Dwg 151-C-28/1954
- .20/Spar Deck Plating/Dwg 151-C-29/1954

- .21/Spear Pole/Dwg 151-C-117/1954
- .22/Main Deck/Dwg 151-C-8/1953
- .23/Spar Deck Plating/Dwg - /1954
- .24/Tank Calibrations/Dwg - /Date -
- .25/Gangway Ladder/Dwg 151-C-160/1954
- .26/Arrangement for Hoisting Ladder/Dwg 151-C-115/1954
- .27/Portable Ships Side Ladder Support/Dwg 151-C-157/1954
- .28/Portable Swiver Davit/Dwg 151-C-158/1954
- .29/Portable Brkts (4 off) to be Used when Painting Aft End of Texas Deckhouse/Dwg 151-C-163/1954
- .30/Gangway Davit/Dwg 151-C-159/1954
- .31/Landing Boom/Dwg 151-C-153/1954
- .32/Grain Pennants/Dwg 151-C-14/1953
- .33/Relocation of Lifeboats/Dwg 151-C-12/1953
- .34/W.T. Line Chock/Dwg 151-C-165/1954
- .35/Rigging Plan/Dwg 151-C-103/1954
- .36/Ventilation Arrangement for'd/Dwg 151-C-98/1954
- .37/Ladders in Side Tank & Double Bottom/Dwg 151-C-20/1954
- .38/Hatches & Ladders to Cargo Holds/Dwg 151-C-24/1954
- .39/Hatch Coamings & Covers/Dwg 151-C-25/1954
- .40/Hatch Crane Glanding & Toogle/Dwg - /1954
- .41/Foremast & Fittings/Dwg 151-C-105/1954

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- .42/Additional Crew Rooms spar dk. fwd./Dwg 151-C-153/1953
- .44/Landing Booms/Dwg - /1954
- .45/Ventilating Fans for Engine Room/Dwg - /1953
- .46/Pumping Arrangement/Dwg 151-C-102/1953
- .47/Ballast Manifold/Dwg E-1359/1953
- .48/Ballast Piping in Eng. Room/Dwg E-1358/1953
- .49/ 20" Hydraulically Operated Main Ballast o'b'r'd Disch. Valve Assembly/Dwg E-1309/1953
- .50/ 20" Main ballast Pump sea Chest/Dwg G-3103/1953
- .52/ 18" x 20" Class "SLHV" Vertical Pump/Dwg 561203/1953
- .53/Wastes and Drains/Dwg 89/1950
- .54/Deck Steam and Exhaust/Dwg 151-C-99/1954
- .55/Steam Smothering - Oil Fuel Bunkers/Dwg E-1394/1954
- .56/Forward Heating Arrangement/Dwg 151-C-97/1954
- .57/Oil Fuel Hose Outrigger Details/Dwg 151-C-154/1954
- .58/Proposed Piping Arrangement for Steam Tyfons/Dwg K-1773/1951
- .59/Hot and Cold Potable Water System/Dwg 151-C-100/1954
- .60/Potable Water Tank & Seat Sewage Tank Seat For'd/Dwg 151-C- 13/1953
- .61/Fire and Wash Deck Line/Dwg 151-C-114/1954
- .62/Priming Piping/Dwg E-1371/1954
- .63/Diagrammatic Potable Water Piping/Dwg K-1896/1954
- .64/Vacuum Tank/Dwg G-3115/1954
- .65/ 5" Potable Water Sea Chest/Dwg G-3104/1953

- .66/Overboard Discharges/Dwg G-3106/1953
- .67/Oil Fuel Piping/Dwg E-1365/1953
- .68/Heating Coils - Oil Fuel Bunker/Dwg G-3108/1953
- .69/Oil Fuel Bunkers/Dwg 151-C-18/1954
- .70/Washplates in O.F. Bunkers/Dwg 151-C-23/1954
- .71/Alteration Windlass Cover/Dwg - /1954
- .72/Septic Tanks & Seats/Dwg - /1950
- .73/Aft Bulwark/Dwg 151-C-26/1954
- .74/Rudder/Dwg 97/1950
- .75/Cast Steel Rudder Stock/Dwg - /1951
- .76/Side Waterwall & Roof Tile/Dwg C503-95-A/1950
- .77/Rear Water Circulating Section "Watts" 43 Series Boiler  
W.P. 30 P.S.I./Dwg G-3102/1953
- .78/Gauge Board Extension Showing Bailey Meter Accommodation/Dwg  
G-3111/1953
- .79/Boiler Room Gauge Board Showing Bailey Meter Accommodation/Dwg H-  
2003/1954
- .80/King Gauges Piping/Dwg E-1375/1954
- .81/Safety Valves/Dwg 40869/1948
- .82/Emergency Governor/Dwg - /1982
- .83/Assembly of Insulated "Hex-press" F.D. Register with  
"Hex-press" Atomizer/Dwg 40048-S-2-A/1944
- .84/Soot Blower/Dwg 3-18618/1951
- .85/F.D. Fan/Dwg 552363/1953

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.86/Fan Damper and Frame/Dwg 552362/1953

.87/Water Gauge Mounting/Dwg C-525-248/1952

.89/Henschel Telephone sys./Dwg 2/1954

.90/Electro-vox Intercom/Dwg 1/1954

.91/Alarm Horns/Dwg 3/1954

.92/Elect. Power Schem./Dwg - /1954

.93/Cargo and Tunnel Lighting/Dwg - /1954

.94/Schematic Wiring Diagram 115V.S.PH. 60 Cycle Emergency  
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.95/Schematic Wiring Diagram Panel Circuits 230V.A.C.3 PH.60                      cy.sw.bd/Dwg - /1952

.96/115 Volt Lighting Schematic/Dwg - /1954

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**Red Wing    1995.26.43**  
**ex Imperial Edmonton**  
 Converted.Port Weller/-/1960

**Accession #/Title/Drawing #/Date**

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- .2A/General arrangement & deck plan/Dwg YD571-S9-2-2/1960
- .2B/General arrangement forward/Dwg - /1959
- .3/Midship section/Dwg - /1959
- .4/Shell expansion/Dwg - /1959
- .5/Hydrostatic curves/Dwg 28-H-68/1960
- .6/Loading guidance manual/Dwg - /1960
- .6A/Diesel oil fuel tanks port tank shewn stbd similar/Dwg                      28-H-74/1960
- .7/Guidance plan/Dwg 58-26-A/1959
- .8/Stern anchor & mooring arrangement/Dwg 28-H-37/1960
- .9/Dock winch/Dwg 52604/1955
- .10/Winch seats & P.C. fairleads/Dwg 28-H-63/1960
- .11/Cargo hatch clamps/Dwg 28-H-7/1959
- .12/Cargo hatches/Dwg 28-H-36/1960
- .13/Hatch cover crane/Dwg 53944/1960
- .14/Profile & deck/Dwg - /1959
- .15/Aft section curves/Dwg - /Date -
- .17/Upper deck platings/Dwg - /Date -

- .18/Upper deck accommodation inside poop/Dwg 28-H-19/1959
- .19/Poop deck house bhds/Dwg 390-740-2/1948
- .20/Poop deck plating/Dwg - /Date -
- .21/Proposed ammendments to PWDD Drwg no 28 Forward accommodation/Dwg - /1959
- .22/Upper deck for'd modifications to accommodation//Dwg - /1960
- .23/Preliminary forward houses/Dwg 28-H-60/1960
- .24/Spear pole, jack staff & ensign staff/Dwg 28-H-84/1960
- .25/Tank top plating double bottom floors & girders/Dwg 28-H-3/1959
- .26/Hold bulkheads 85-111-137-165 & 193/Dwg 28-H-8/1959
- .27/Longl. W.T. bhds., side tank bhds. & midship framing/Dwg 28-H-9/1959
- .28/Upper & forecastle deck plating and W.T. flat for'd/Dwg 28-H-15/1959
- .28A/Pilohouse arrangement/Dwg 28-H-73/1960
- .29/Roughing in plan of kitchen equipment/Dwg 1519.B/1959
- .30/Funnel/Dwg 28-H-83/1960
- .34/Diagrammatic piping layout/Dwg L-92658-A/1941
- .35/Priming system/Dwg 28-P-14/1960
- .36/ 12" Ballast manifolds/Dwg 24-M-8/1956
- .37/Ballast and pumping plan/Dwg 28-P-1/1959
- .38/Details for ballast and pumping plan/Dwg 28-P-2/1959
- .39/Main & aux. circulating and aux. ballast ov'bd. discharges/Dwg 28-H-52/1960
- .40/Sketch of existing rudder palm/Dwg 28-H-10/1959
- .41/Stern frame/Dwg 241-703-A/1941

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.48/Arrangement of machinery plans/Dwg 241-901-11/1941

.49/Shell Plating Data/Dwg - /1947

**THORNHILL 1995.26.44**  
**Great Lakes Engineering Works/Hull 22/1906**

**Accession #/Title/Drawing #/Date**

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- .2/Hydrostatics/dwg - /1968
- .3/Profile view - Alt. #2/dwg - /1952
- .4/New channel in way of break in tank top/dwg - /1930
- .5/Tank top reconstruction/dwg - /1959
- .5A/New tank top/dwg - /1959
- .5B/Alterations & additions tank top/dwg H-1/1936
- .5C/Reconstruction of side tanks/dwg GL21H-S11-5-1/1945
- .5D/Fuel oil tank & alteration to bhd 162, 163/dwg 21H-S55-0-1/1950
- .6/Tank top sights/dwg YD564-S29-9-1/1959
- .7/Brickwork arrangement - Superheater header side & front/dwg E-162-655-0/1950
- .8/Arrg't of side casing superheater header side/dwg E-162-653-1/1950
- .9/Arrg't of side casing superheater removal side/dwg E-162-657-1/1950
- .10/Arrg't of airheater & casing/dwg E-162-652-1/1950
- .11/Foundation plan/dwg D-162-456-0/1950
- .12/Arrg't of front casing/dwg E-162-659-1/1950
- .13/Arrg't of rear casing/dwg E-162-659-1/1950
- .14/Brickwork standard sections & details/dwg D-161-719-3/1948

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- .15/Brickwork arrangement superheater element removal side & front/dwg E-162-656-1/1950
- .16/Brickwork arrangement - floor/dwg D-162-472-0/1950
- .17/Arrg't by-pass damper/dwg D-162-457-0/1950
- .18/Arrangement of marine boilers SM type/dwg MND-10444-3/1950
- .19/Arrg't & details of drum internals/dwg E-162-650-0/1950
- .19A/Details of steam drum/dwg E-162-649-3/1950
- .19B/Pressure parts assembly/dwg E-162-648-3/1950
- .20/General arrangement/dwg E-612-646-1/1950
- .21/Superheater arrangement/dwg E-162-651-2/1950
- .22/Arrg't of valves & fittings/dwg E-162-647-1/1950
- .23/List of equipment (sht. 1)/dwg 100-169/1951
- .24/Diagrammatic arrangement of feed condensate piping/dwg 62-1274/1951
- .25/Arrg't of auxiliary steam & exhaust piping/dwg 62-1303/1951
- .25A/Arrg't of auxiliary steam & exhaust piping/dwg 62-1299/1951
- .25B/Arrg't of auxiliary steam & exhaust piping/dwg 62-1301/1951
- .26/Arrg't of machinery stbd elevation/dwg 100-165/1950
- .27/Arrg't of machinery section/dwg 100-167/1950
- .28/Arrg't of machinery port elevation/dwg 100-164/1951
- .29/Location of connections at fuel oil tanks/dwg 62-1327/1950
- .30/Location of sea chests and overboard discharges/dwg 98-643/1950
- .31/Arrg't of vents, soundings & overflow fuel oil piping/dwg 99-641/1950

- .32/Arrg't of bilge syphons in boiler room/dwg 62-1307/1950
- .33/Arrg't of DO filling piping/dwg 62-1324/1951
- .33A/Arrg't of fuel oil piping/dwg 62-1322/1950
- .34/Diagrammatic arrg't of fuel oil system/dwg 62-1319/1950
- .35/Diagrammatic assembly of main gear reduction & turbines/dwg E-21876/1950
- .35A/Main gear reduction & turbines/dwg G-15551/1950
- .35B/Assembly marine gear reduction/dwg G-15552/1950
- .35C/HP Assembly turbine/dwg G-15504/1950
- .35D/LP Turbine assembly/dwg G-15505/1950
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.48/Turbo generator & DC feeders rear view diagram/dwg - /1947

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.50/Rope guard & retainer plate/dwg 91-195/1950

.51/Shell expansion/dwg - /Date -

.52/Pilot house & texas/dwg - /Date -

.53/Deck plating/dwg - /Date -

.54/Steel plan of after deck house/dwg - /Date -

.55/New dunnage deck/dwg H-4/1936

.56/Alterations to blkhd #29 & stairway to main deck/dwg H-6/1936

.57/Bulkhead #190/dwg - /Date -

.58/Alterations to bulkhd #159/dwg -/1936

.59/Reconstruction of aft bhd #159/dwg GL21H-S11-5-2/1947

.60/Alteration to stern tube/dwg 91-228/1952

**WHEAT KING 1995.26.45**  
**ex M.V. LLANDAFF**  
 Lithgow Ltd./Hull 61/1952

**Accession #/Title/Drawing #/Date**

- .1/Proposed lengthening general arrangement/Dwg 61-H-101 0/1975
- .2/Proposed lengthening general arrangement/Dwg 441-D-2/1974
- .3/General arrangement/Dwg 276-H-26/1961
- .3A/General arrangement/Dwg - /1960
- .4/Capacity plan/Dwg 61-D-2/1975
- .5/Midship section (lengthened section) & corrugated bhd/Dwg 61-H- 2/1975
- .6/Midship section/Dwg 441-D-1/1975
- .7/Midship section/Dwg 276-H-1/1960
- .9/Design of ship's lines/Dwg - /Date -
- .10/Paint lines & schedule (sht. 1)/Dwg 61-H-106/1975
- .11/Keel to paint line new section (sht. 2); Topsides - above paint line (existing ship) (sht. 3); Inside of cargo holds D.B. & ballast tanks (new section) (sht. 4)/Dwg 61-H-106/Date -
- .12/Cross curves of stability/Dwg - /Date -
- .15/Arrg't & detail of lifting & backhaul posts & sheaves/Dwg CV59/1957
- .16/Lifeboat arrangement & davit seats/Dwg 276-H-21/1960
- .17/Modifn to existing oil fuel bunkers/Dwg 276-H-9/1960
- .18/PC Fairleads & winch seats/Dwg 276-H-23/1960
- .19/Hold drain wells/Dwg 276-H-12/1960
- .20/Stowage plan for no. 2 hatch/Dwg - /1957
- .21/Stowage plan for no. 3 hatch/Dwg - /1960



- .22/Stowage plan for no. 5 hatch/Dwg - /1960
- .23/Proposed hatch arrangement/Dwg - /1960
- .24/Hatch cover lifting post & pulley arrgt/Dwg 276-H-29/1961
- .25/Proposed arrgt of cargo holds & double bottom floors/Dwg -/1960
- .25A/Tank top & double bottom floors in hold no. 1/Dwg 276-H-6/1960
- .26/Modifn to existing W.T. bulkheads/Dwg 276-H-7/1960
- .27/Longitudinal bulkhead & sloped trimming plate/Dwg 276-H-10/1960
- .28/Modification to longitudinal bulkd & fly to midship section/Dwg 276-H-20/1960
- .29/Modifn to existing upper deck/Dwg 276-H-6/1960
- .30/Escape hatches to holds/Dwg 276-H-30/1961
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- .32/Proposed accommn arrgt upper loop & boat decks/Dwg - /1960
- .33/Side views of the two vertical stiffeners/Dwg - /Date -
- .33A/Stiffening of eng room bulkhead at fr 21/Dwg - /1972
- .34/Machinery arrangement/Dwg - /1960
- .34A/Ship arrangement Cont./Dwg 276-M-6/1962
- .35/Pipe arrangement steam, exhaust, feed & air/Dwg 70260/1952
- .35A/Pipe arrangement steam, exhaust, feed & air/Dwg 70263/1958
- .35B/Pipe arrangement steam, exhaust, feed & air/Dwg 70261/1952
- .36/Pipe arrangement steam, exhaust & feed/Dwg 70264/1952
- .36A/Pipe arrangement steam, exhaust & feed/Dwg 70262/1952

- .37/Steam, exhaust, feed & condensate diagram/Dwg 3285-200-3/1972
- .38/Pipe arrangement steam, exhaust & air/Dwg 70265/1952
- .39/Lubricating oil diagram/Dwg 3285-200-1/1972
- .40/Fuel oil diagram/Dwg 3285-200-2/1972
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- .45/Main ballast sea bay/Dwg 276-H-11/1960
- .45A/Ballast & pumping plan/Dwg 276-P-3/1960
- .45B/Diagrammatic arrangement of ballast system/Dwg 276-P-2/1960
- .46/Pipe arrangement ballast, oil fuel, & cooling water suction & discharge/Dwg 70254/1952
- .47/Sea inlet boxes for SS generators S.W. circulating /Dwg 3285-200- 8/1972
- .50/Air storage tanks/Dwg 36882/1951
- .51/Auxiliary boiler/Dwg - /1951
- .52/Fire extinguishing arrgt/Dwg 276-E-14/1960
- .53/Modifn to existing oil fuel bunkers/Dwg 276-H-9/1960
- .54/Shell expansion/Dwg - /1962
- .55/Cargo oil pumping arrangement/Dwg - /**1960**
- .56/Main cargo pump rooms (fore & aft)/Dwg - /1960

- .57/Tunnel shafting/Dwg 30355/1953
- .57A/Shafting arrangement/Dwg 96-108-02 A.B./1975
- .57B/Shafting arrangement/Dwg 96-108-02 A./1975
- .58/Propeller shaft & stern tube/Dwg 21795/1952
- .58A/Propeller telemotor diagram/Dwg 585920/1975
- .59/Propeller (spare)/Dwg 21877/1952
- .60/Propeller/Dwg L.2384/1951
- .61/Streamline rudder/Dwg - /1962
- .62/Cast steel sternframe/Dwg - /1962
- .63/Piston skirts/Dwg 12461/Date -
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