

GANGWAY

One gangway, about 29' long and about 2' wide between side rails. Side rails arranged with wood posts held in position between top and bottom members by diagonal bracing and through-bolts between top and bottom stringer pieces. One end of gangway fitted with 15" truck wheels, the other end to have 6" channel to drop over top of sheer strake. Stanchions for manila hand rope arranged to stow alongside gangway. Gangway stowage provided at fore and aft walkway.

RAILS AND STANCHIONS

Of galvanized forged steel stanchions about 5' apart with two courses of galvanized pipe rails will be fitted on upper deck, on fore and aft walkway and with single course around steering engine, and at deck openings having coamings less than 30" high.

Stanchions to be portable on upper deck at gateways and to have tapered square lower ends to fit in galvanized forged socked welded to deck and held in place by tapered key secured with brass keeper chain. Gateways arranged in way of cargo discharges, accommodation ladder, dry cargo hatch, etc.

Galvanized pipe rail of welded construction with two courses, will enclose poop deck; poop deck house top and engine casing tops; after end of bridge deck, upper bridge and navigating bridge clear of bulwarks and boats; and forecastle deck. Portable section provided at anchor davit.

Brass pipe rail with two courses will be fitted around top of Navigating Bridge Deck House and compass platform on house top.

Top rail generally 3'6" high.

Storm rail of galvanized iron pipe fitted on one side of all passageways and around all deck houses where passage between deck hand rail and house or width of passageway is more than four feet.

Guard chains across ends of walkway at portable section and in way of ladders leading from the walkway to the Upper Deck.

AWNINGS, STANCHIONS, ETC.

Stanchions and ridge poles will be fitted and awnings of #2 waterproof canvas provided over poop deck aft of the Poop Deck House. Poop Deck House Top clear of the lifeboats and engine and boiler casings, over navigating bridge wings; each side abreast of and at after end of Upper Bridge Deck House (clear of boats). Awning stanchions, ridge poles and spreaders will be of galvanized iron pipe with welded connections; stanchions may serve as rail stanchions and will have eyes welded on top for galvanized ridge rope and clips to take spreaders, ridge bars and braces as required. All iron fittings to be galvanized. Awning spreader made portable in way of stores booms aft. Outboard stanchions on navigating bridge to be inboard of bearing repeaters.

SHIP'S BELLS

There will be two composition ship's bells; one 16" located on Forecastle head, polished and en-

graved with ship's name and date, secured in suitable belfry, and so located as to convey sound in any direction. One 9" bell, polished, fitted in front of wheel house with lanyard leading into wheel house.

STORM OIL TANK

Storm oil tank to be fitted as required by U. S. Coast Guard B. of M. I. N. Regulations.

MISCELLANEOUS HULL FITTINGS

Freeboard marks are to be outlined with welding—not cut in.

Ship's name (in letters 18" high) will be placed on each side of bow and name (in letters 12" high) and port of registry (in letters 6" high) on stern; welded outline letters.

Suitable name boards fitted each side at top of Wheel House.

Draft marks to be outlined with welding—not cut in, on stern and stern and amidships on both sides of vessel in Arabic figures, up to the 32' waterline; datum line to be bottom of keel plate amidships.

Three approved davits each side on upper deck for handling oil hose, and davits at store room hatches and for lubricating oil handling. Provide portable davit in socket on forecastle head, properly rigged, for handling Suez Canal searchlight. All complete with blocks, falls, galvanized guys, etc.

Eight caution boards will be provided and placed where required. All rules, regulations, sta-

tion bills, etc., necessary to be properly framed under glass and placed in their proper places.

One garbage chute to be fitted aft.

Channel and angle clips for stowing anchors, spare propeller and other outfit and gear, together with lashing rings will be provided where required.

Steel cradle brackets for stowing the cargo and fuel oil hose are to be fitted in the Bridge space.

Provide two ullage plate screen carriers of hard wood, each carrier to accommodate six screens.

Provide touch-weld non-slip treads on steel decks in way of all outside ladders and outside doors.

Vegetable and potato boxes installed as directed.

Wire mesh enclosed dirty clothes locker with deck gratings and bag hangers is to be provided in the bridge space.

Racks for securing life preservers, axes, frames for license papers, necessary gratings and wood boxes for the stowage of deck gear, etc., will be supplied and fitted as required.

All iron and steel fittings attached to wood work on weather decks to be galvanized.

Ring pads provided for stowage of lubricating oil barrels on machinery casing above poop deck house top.

Provide shelving and stowage in Bridge space for Butterworth machines and hose as directed.

DECK COVERING

All deck surfaces in all quarters, bath rooms, shower spaces, wash rooms and water closet

spaces, wheel house, chart room, officers' recreation room and pantry, mess rooms, and passageways in poop deck house, bridge deck house and upper bridge deck house to be covered with Selbalith or equal; covering laid on bituminous solution coated surfaces and to be well secured to deck by welded-in-place steel hold-fast clips and shall cover entire area of spaces (including bottoms of built-in wardrobes) and be covered at contours. Floor in galley and pantry covered with non-slip, Buff, tile. Care to be taken in the laying of the various floors to provide proper drainage.

PARTITIONS AND SHEATHING

Chart room and wheelhouse, all accommodations, recreation room, mess rooms, and passageways in bridge deck house, upper bridge deck house and poop deck house, to be lined overhead with $\frac{3}{8}$ " marine sheathing.

Divisional bulkheads and other free standing bulkheads and side shell and bulkheads and house bulkheads sheathing in accommodations, constructed of metal clad Marinite, except on Upper Deck aft which will be of steel.

Sheathing under air port to form one portable section.

Side sheathing arranged with portable base board fitting close to deck covering in officers' accommodations, no baseboard in crew's spaces.

Sills $\frac{3}{8}$ " thick, welded to deck to carry free standing bulkheads, $4\frac{1}{2}$ " high in officers' spaces; 7" high in crew's spaces.

Overhead steel decks and sides exposed to weather in way of wheelhouse, chart room, living rooms, recreation room, mess rooms and passageways to be insulated with fireproof and waterproof material at least 1" thick equal to Johns-Manville BX4M, secured with wire mesh and angle supports. Deck and poop deck house machinery casings in way of all quarters and passageways over machinery and boiler space to be insulated with 2" thick 85% magnesia fitted 2" below deck and in contact with casing; all with galvanized sheet steel covering.

JOINER DOORS

Outside doors in pilot house, captain's quarters and to bridge deck passage not less than 2½" thick teak. Inside doors of hollow metal, flush type, to have sliding solid steel panel and panel of mosquito screen (with larger mesh protection screen) of stainless steel; the sliding panel is to be arranged for various open positions; doors to have spring hinges. All door sills to have stainless steel covering. Doors to water closet spaces and stalls and to wash rooms and bath rooms also to be of hollow metal.

Metal frame screen doors with panels of stainless steel wire mesh mosquito screen and galvanized protection screen to be provided at all outside doors, including doors to galley. Interior screen door to chart room to have mosquito screen and protection screen of bronze; all doors to have spring hinges and lever handles and locks.

Interior door sills will be 6" or less above deck or floors.

HARDWARE

All hardware of white metal. Approved door hooks provided for holding doors back and also ajar. Door knobs to be lever type. Locks provided for all doors, drawers, desks, lockers, wardrobes, etc., and all locks to have duplicate keys; locks for all wardrobes and berth drawers to be of cylinder type with Yale type keys; coat and hat hooks in all mess rooms, clothes lockers, recreation room, etc. Keyboards fitted in glass fronted box with lock in Captain's Office and chief engineer's office. Hardwood keyboards in first officer's, first assistant engineer's carpenter's, boatswain's and steward's rooms. All fastenings for hardwood to be of bronze.

PAINTING AND FINISHING JOINER AND STEEL WORK IN LIVING QUARTERS

Steel work in quarters, sheathed and un-sheathed, to have three coats of paint. White pine or soft wood work to receive not less than three coats, after priming, of lead and oil paint. Hard wood to be treated with good quality filler, then treated with a sufficient number of coats of best interior varnish or wood finish to get the finish necessary for first class work, and hard wood will be rubbed down to a full and smooth finish. All surfaces of wood exposed to air, not treated for finish, to be primed to prevent warping.

Finish colors in various spaces in accordance with Owner's Schedule.

FURNITURE

All furniture to be of approved metal design.

Beds provided in rooms of Poop Deck House, Bridge House and Upper Bridge House (except in Hospital and Bosun/Pumpman's Room).

Pipe berths with drawers under lower berths, aluminum paint finish, installed in all other rooms and in hospital and Bosun/Pumpman's Room.

All berths will have a removable spring of approved quality, all beds similarly equipped.

Built-in lockers or wardrobes with hat shelf, coat hanger rod and hooks, provided in spaces having beds.

Metal lockers installed in all rooms not furnished with built-in lockers and in hospital, and to have hat shelf, toilet rack and mirror, coat hanger rod, clothes hooks, ventilating louvres, etc.

Each space having a bed, also chart room, captain's and chief engineer's Offices, officers' recreation room, and four rooms for petty officers to have a built-in upholstered settee.

Settees in Officers' Recreation Room and in rooms of the Captain, First Officer, Chief Engineer and First Assistant Engineer, are to have a clear seat cushion width of 26". Other settees are to have a clear cushion width of 23". Full length cushioned back on all settees and cushioned ends where required; cushions to be tufted and at least 3" thick, filled with sea hair and covered with pantosote.

Flat top desks, 58" long, provided in Captain's and Chief Engineer's offices. Other spaces for

licensed officers, steward and radio operator to have flat top desks with drawers under. Bulkhead desks furnished in all other rooms.

Bookcase furnished in offices of Captain and Chief Engineer. All other living spaces to have a book rack including recreation room which will have two racks.

Tables fitted in Captain's and Chief Engineer's offices, and crew's and officers' recreation rooms. Tables of oak in radio office, with lockers and drawers under, to accommodate instruments, etc. Metal tables fitted in officers' mess room and in crew's/P.O.'s mess rooms, of sizes indicated on plan. All table tops except in radio room to be supported by pedestals under middle of table and all tops covered with dark green linoleum with stainless steel edge moulding; moulding on table in radio room of hardwood. All mess room tables to have a complete set of rolling ledges (to slide into position) for use in heavy weather.

Crew's and petty officers' mess room to have 30 revolving ash chairs. Fully upholstered easy-chairs are to be furnished: One in each of Captain's and Chief Engineer's staterooms and two in Officers' recreation room. Upholstered seat and back arm-chairs are to be furnished: Four in Officers' recreation room, three in each of Captain's and Chief Engineer's offices, two in each of Radio room and Officers' messroom, and one in each room for Officers, Assistant Engineers, Radio Operator, Steward and Pilot. Twelve upholstered seat and back side-chairs are to be furnished for the Officers' messroom. Non-uphol-

stered hardwood side chairs are to be furnished: Three in each room for seamen, firemen and wipers, two in hospital, and one in each room for Bosun/Pumpman, Quartermaster, Oilers, Cooks, Messmen and P. O. Gunners.

Hardwood benches in each room on Upper Deck Aft except in Quartermasters, Oilers, and P.O. Gunners Rooms, as required by Owner's representatives.

A suitable chest of drawers is to be furnished in each of the Captain's and Chief Engineer's staterooms and in each room for Officers, Assistant Engineers, Radio-Operator, Steward, Pilot Bosun/Pumpman, Quartermasters, Oilers and P.O. Gunners: where restriction of space so requires such chest of drawers may be combined with desk specified to be furnished for room.

Serving tables in recreation room, each mess room, to be provided with rail around top, glass racks, drawers and lockers.

Chiffonier in captain's stateroom and in Chief Engineer's stateroom.

Plate glass mirrors provided over captain's and Chief Engineer's chiffoniers.

Two metal letter file cabinets are to be furnished in office of Chief Engineer and two in radio room.

MISCELLANEOUS FURNISHINGS IN ACCOMMODATIONS

- 1 first aid chest, Johnson & Johnson #10 or equal.

1 medicine chest, of metal, with supplies, in accordance with American Marine Standards and U. S. Public Health Service.

Engraved Bakelite name plates will be placed over all doors, including store rooms and lockers.

Hardwood frame to match adjacent finish, with glass, for notices, certificates, etc., also bulletin boards placed where required for service of the ship.

Bath room cabinet with mirror front and rack for water bottle and glasses at all wash basins in officers', petty officers' and steward's quarters, mirror over all other wash basins. If wash basins are not in private baths, bath room cabinet, mirrors, glass bottle will be installed in living rooms.

Toilet paper holders and coat hooks in all W.C.'s.

Towel rack fitted at all wash basins.

Grab rod fitted in each shower space and at hospital bath tub.

One safe in Captain's office with combination lock.

One Davis or other approved two-man combination hose mask stowed in cabinet in space under bridge deck.

GALLEY AND PANTRY EQUIPMENT

In the Galley the following is to be installed: one 142 R173 Edison General Electric Appliance Co., marine service electric range, having four cast-in hot plates and fitted with plain backshelf, guard rail and sea racks; one N227 Edison Gen-

eral Electric Appliance Co. electric bake and roast oven; one K-11 Edison General Electric Appliance Co. electric 20-gallon stock kettle; one 66-gallon TACO Steam Unit Hot Water Heater; one metal dresser with drawers and shelves under (top and drawer fronts of stainless steel) top to have set-in sink of stainless steel with hand pump. One stainless steel dough trough with table top. Metal table with shelf under, of stainless steel. A wooden cutting shelf, steel pot rack with hooks arranged over stove.

PANTRIES

In the Officers' mess pantry will be installed a dresser with inset sink and hand-pump and drawers and shelves under (dresser top, drawer fronts and shelves of stainless steel) and dish rack and cup racks of stainless steel; a 3-gallon hot water urn, a General Electric Company—Model PB6-41 ($\frac{1}{4}$ H.P. marine motor) 6.2 cu. ft. electric refrigerator.

Crew's mess pantry will be equipped similarly except hot water urn to be 5-gallon and one additional 3-gallon coffee urn. Cold water bubbler fountain to be arranged in mess room.

Officers' mess and bridge house passageway to have one GE-BM15 electric water cooler.

Officers' recreation room pantry to have General Electric Company 6.2 cu. ft. Model PB6-41 ($\frac{1}{4}$ H.P. marine motor) electric refrigerator.

All urns to be of monel metal.

COLD STORAGE ROOMS

Cold storage compartments located on upper deck aft, of size as indicated on plans. The refrigerating space will be bounded by steel bulkheads 10# in weight, suitably stiffened. All steel work including decks, side, etc., coated with bituminous solution and enamel. All exposed wood to be ash; lining to be of spruce.

Exterior bounding surfaces throughout, 8" thickness and of insulation satisfactory to the Owner's Representatives. At ceiling and walls the construction will be formed of layers of insulation, and two layers of 3/8" tongued and grooved spruce. Double thickness of insulating sheathing paper is to be applied between the insulation and wood, between the layers of wood. The interior finish throughout to be synthetic resin assembled plywood.

The floor insulation upper surface to be entirely covered with 3/4" T & G fir or spruce, blind nailed to grounds. Over this 6# sheet lead, flashed 12" up the sides, fastened to side sheathing by two rows of galvanized tacks, spaced not over 3/4" centers in rows and staggered. All joints in lead shall be soldered watertight, and then 2" of concrete, reinforced with #13 Steelcrete shall be laid. The floor in the rooms is to be fitted with portable wooden gratings.

No. 22 U. S. gage flashing shall be fitted at the corners only.

Suitable division bulkhead between meat and chill rooms of similar construction to that as described above but of 5" thickness will be fitted.

The floor will be properly drained through scuppers fitted with water sealed traps. Approved refrigerator doors installed and provided with locking devices; doors arranged with opening handles on both sides. A metal airtight locker for butter 36" x 18" x full height will be fitted in the meat room. Also 24" x 18" x 36" utility box in chill room with independent door opening into the Steward's storeroom. Install fresh water scuttle butt in refrigerating machine room and bubbler faucets in Upper Deck passageways, crew's/P.O.'s messroom, and in the machinery space.

Chopping table, shelves, meat rails, meat hooks, etc., to be supplied with cold storage room equipment. All steel shelves, fittings, etc., galvanized.

STORE ROOM

Store rooms, lockers, etc., will be fitted where shown on plan with the necessary bins, racks, gratings and shelving for supplies, coiling and stowing lines, canvas, etc., gratings not require on floors of carpenter shop and boatswain's store rooms.

Steel shelves and bins will be fitted up for boatswain's and carpenter's stores as directed. Shelves and bins to be of metal elsewhere.

Ash grating supplied over store room hatches, fitted with brass locks.

Ash grating at each steering stand.

Paint room fitted with two 30-gallon galvanized iron oil tanks with trays, lock-cocks, etc., one

galvanized iron waste tank, and all necessary shelves of steel.

Lamp room fitted with steel dresser drawers and lockers under, steel shelves to suit lamps, two 30-gallon galvanized iron oil tanks with trays lock-cocks, etc., one galvanized iron waste tank, etc., all in complete manner. Connections to be provided to paint and lamp locker for fire extinguishing as required.

Carpenter shops to have work bench with vise and metal shelves, locker and drawers.

Stop chest shall be provided in a suitable location, fitted up in accordance with current practice of the Commission.

ANCHORS, CABLES, HAWSERS AND WARPS

Vessel to be equipped in accordance with Classification Societies requirements and as per plan.

All anchors to be stockless, main bowers shackled to chains and stowed in hawse pipes; the spare bower and stream anchors to be secured on steel chocks, spare bower in fore hold 'tween decks and stream anchor at aft end of poop deck house. Naco stud link cast steel or Dilok chain furnished in 15-fathom shots with anchor end swivel, special joining and end links, the ends secured as specified under Chain Locker. Two spare end links, two spare joining links and spare swivel provided.

Two geared drum type reels with brake will be provided for steel wire hawser and tow line,

properly secured to deck in fore hold and fitted with canvas covers.

NAVIGATING OUTFIT

- 1 Ritchie Navy type steering compass, 9" card, with compensating binnacle in wheel house.
- 1 Ritchie Navy type steering compass, 9" card, with compensating binnacle on Poop Deck House Top.
- 1 Ritchie Navy type steering compass, 9" card, with compensating binnacle top of wheel house, with speaking tube to wheel house.

All compasses of approved make and latest design fully compensated and suitable for lighting from below by oil and electric light. Hoods and night screens provided.

- 1 fog horn.
- 1 patent electrically operated sounding machine of approved make provided with boom having fittings each side of ship. Sounding machine to have metal or wood cover.
- 7 ship's clocks, Chelsea, 8-day, 6" face, four of which shall strike ship's bells.
- 1 clock for radio room to be second indicating type for radio commission requirements.
- 1 log, Walker type, with spare rotator and line with log boom having fittings each side of poop deck.

BOATSWAIN'S STORES

The builder is to furnish and suitably stow aboard the vessel:

- 2 double watch tackle blocks, 9" wood, with hooks, with 10 fathoms of 3" manila line.

- 2 single watch tackle blocks, 9" wood, with hooks, with 8 fathoms of 3" manila line.
- 1 double luff tackle steel block with 16" sheaves.
- 1 single luff tackle steel block with 14" sheaves.
- Luff tackle blocks to have 50 fathoms $\frac{3}{8}$ " plow steel wire rope.
- 2 snatch blocks, 12" shell.

CANVAS

Covers of 12 oz. waterproof canvas for search-light, all exposed steering wheels, exposed compasses and gyro repeaters, telegraphs, boats, reels, ventilator cowls and ventilator coamings, etc., #6 canvas windsail (50' long x 2' 0" diameter) of the two-winged type complete with hickory hoops to be provided for each cargo tank hatch. Weather screens at rails on standard compass platform.

Awning of #2 waterproof canvas provided as specified under Awnings, Stanchions, etc.

FLAGS

Flags will be furnished by the Commission.

Navy standard flag boards, destroyer type, shall be provided and installed in approved locations.

Overhead pigeon-hole type flag locker to be fitted in Wheel House.

DECK OUTFIT

All items of life saving, fire extinguishing and navigating and signal equipment required by regulations of the U. S. Bureau of Marine Inspection and Navigation to be supplied and installed by Builder, unless otherwise specified.

Builder will also furnish and install:

6 boatswain's chairs, hooks and tackles for paint smoke stack.

6 staves, hooks and tackles for painting hull, outside.

4 chain hooks.

450' of 2½" rubber Std. single jacketted cotton rubber lined fire hose, in 50' lengths with racks, nozzles, etc., complete suitable for 350# working pressure. All fire hose valves and hose couplings are to comply with Bureau of Marine Inspection and Navigation requirements as to threading.

2 50' lengths of 1½" moulded rubber wash deck hose with nozzles, spanners, etc. Couplings to have standard pipe thread.

2 Sounding lines; 25 fathoms with 13# lead: 120 fathoms with 30# lead.

Wood plugs for scappers in way of cargo oil spaces, upper deck.

All hose, axes, boats, life preservers, life buoys, etc., to have name of vessel painted or branded thereon.