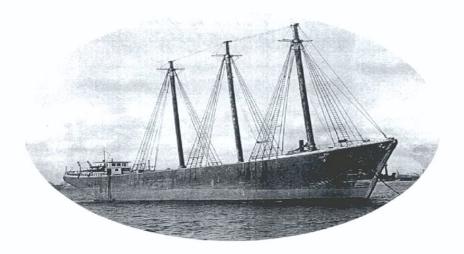
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**Contract No. DACW51-01-D-0015-8a** Delivery Order No. 0023

U.S. Army Corps of Engineers New York District

> **RECORDATION OF SIX (6) VESSELS** IN CONNECTION WITH THE NEW YORK AND NEW JERSEY HARBOR NAVIGATION STUDY **UPPER AND LOWER BAY** PORT OF NEW YORK AND NEW JERSEY STATEN ISLAND, RICHMOND COUNTY, NEW YORK **ELIZABETH, UNION COUNTY AND BAYONNE, HUDSON COUNTY, NEW JERSEY**



PREPARED FOR: U.S. Army Corps of Engineers **New York District** New York, New York

**UNDER SUBCONTRACT TO:** Matrix Environmental and Geotechnical Services, Inc. East Hanover, New Jersey

PREPARED BY: Panamerican Consultants, Inc. Memphis, Tennessee

VOLUME II: APPENDICES **FEBRUARY 2008** 

### **VOLUME II: APPENDICES**

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Authored by: Andrew Lydecker

Prepared for: U.S. Army Corps of Engineers, New York District

Contract No. DACW51-01-D-0015 Delivery Order No. 0023

Under Subcontract to:
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FEBRUARY 2008

### TABLE OF CONTENTS

APPENDIX A: SCOPE OF WORK

APPENDIX B: SALVAGE AND CONSERVATION PLAN FOR SS16B

APPENDIX C: STANDARD MITIGATION AGREEMENT

APPENDIX D: DIVE LOGS AND FIELD NOTES

APPENDIX E: VESSEL ILLUSTRATIONS (SEE ENCLOSED CD)

**APPENDIX F: PHOTO LOGS** 

APPENDIX G: SECTIONAL DRYDOCK PLANS (SEE ENCLOSED CD)

APPENDIX H: VESSELS OF THE SMITH CO.

APPENDIX 1: FISH HAWK DEPARTMENT OF TRANSPORTATION DOCUMENTS

APPENDIX J: DIVE SAFETY PLAN

APPENDIX K: HEALTH, SAFETY, AND ACCIDENT PREVENTION PLAN

APPENDIX L: STATE SITE FORMS

## APPENDIX A: SCOPE OF WORK

Scope of Work and Request for Proposal For

Recordation of Six (6) Vessels
In Connection with the
New York and New Jersey Harbor Navigation Study
Upper and Lower Bay
Port of New York and New Jersey
Staten Island, Richmond County, New York
Elizabeth, Union County and Bayonne, Hudson County, New Jersey

### I. Introduction

The New York District, U.S. Army Corps of Engineers (Corps), is proceeding with studies in connection with the New York and New Jersey Harbor Navigation Study. As per stipulation I (A) of the signed Memorandum of Agreement (MOA) a remote sensing survey was conducted along the channel edge of the Ambrose, Anchorage, Kill Van Kull, Arthur Kill And Newark Bay Channels. The remote sensing survey identified 93 magnetic anomalies and 24 sidescan sonar images (Lydecker and James 2003a). Of those targets, just 28 magnetic anomalies and 11 sidescan images were determined to be potential cultural resources. The nature and National Register of Historic Places (NRHP) eligibility of the 39 targets were evaluated through a diving survey and five vessels were determined to be eligible resources. Vessel SS16b was not initially considered eligible but based on a request by the New York State Historic Preservation Office to reconsider the evaluation this vessel was also determined significant bringing the total to six eligible vessels. Due to the nature of this project these resources cannot be avoid through project redesign and mitigation must be undertaken. Based on recommendations offered in the evaluation report, a Standard Mitigation Agreement was developed that outlines the mitigation measures the Corps must undertake (Attachment 1). This scope of work addresses those mitigation measures.

As reflected in this scope of work, the Corps' will record the six vessels determined to be NRHP eligible (Attachment 2). This mitigation will be accomplished by recording each vessel through diving, if necessary, or recording the vessels at low tide, by an experienced maritime archaeologist. Also included in this scope is the task to determine if portions of Vessel SS16b, based on research and field investigations, are suitable for salvaging and curating for display in a maritime museum. If determined appropriate for salvaging, recommendations will be made as to the parts to be salvaged and conserved. Preliminary plans and associated costs will be developed to undertake a salvage and conservation effort.

### II. Project Background

### A. Project Area

The overall plan is to deepen the main channels in the Harbor to 50 feet. To do so will require widening of the channels. This action has the potential to impact any shipwrecks that might be located along the current channel edges. The widening is anticipated to be approximately 30 feet on each side of the channel but 100 feet on each side of channel was surveyed for cultural resources. Dredging in Ambrose Channel will extend to 2500 feet east of the channel's current terminus. Two eligible resources, Shooters Island V2 and Shooters Island SS16b, are located on Shooters Island. The remaining resources, KVK V33, KVK V36, KVK V37 and KVK V38 are located on the Kill Van Kull shoreline of Staten Island. Only Vessel Shooters Island V2 is located in the waters of the State of New Jersey, the rest lie within New York State.

### III. Previous Research

The six vessels to be recorded under this scope of work were evaluated through an underwater survey by Panamerican Consultants, Inc. in the summer of 2003 (Lydecker and James 2003b). Vessels KVK V33, KVK V36 and KVK V37 were also surveyed as part of the Corps' Collection and Removal of Drift Project and were determined significant (Raber, et al, 1996; James 1999). Vessel KVK38 was not evaluated through the previous surveys. Shooters Island V2, a floating dry dock, was evaluated in the late 1970s and early 1980s (Brouwer 1981; Kardas and Larabee 1985) and was at that time determined not significant, but as twenty years have passed, the vessel was reevaluated and determined significant. Shooters Island SS16b was not previously studied.

The remote sensing survey that identified the potential resources later examined through diving was conducted in 2002 along all channels considered for deepening. In most locations, the survey area covered from channel edge to 100 feet landward of the edge. In certain areas the 100-foot coverage was not possible due to shallow water depth or the presence of moored vessels. Two small areas, one near the Bayonne Bridge and the other at the entrance to Newark Bay, were not surveyed at all due to on going blasting by the Corps that presented a safety issue. The report containing the results of the remote sensing work is listed below. The report also includes a summary of previous work conducted in the Harbor, in particular cultural resource studies that were conducted as part of the Corps' Collection and Removal of Drift Project.

### Brouwer, Norman

1981 Survey of Cultural Resources in the Form of Derelict Ships and Barges, Area II (Completion) of Shooters Island, New Jersey and New York Harbor Collection and Removal of Drift Project.

### Kardas, Susan and Edward Larabee

1985 Historic American Buildings Survey/Historic American Engineering Record Level Recordation at the Ships Graveyards at Shooters Island, Staten Island, Richmond County, New York and Bayonne, Elizabeth, Hudson and Union Counties, New Jersey.

Lydecker, Andrew D.W. and Stephen R. James, Jr.

2003a Remote Sensing Survey in Connection with the New York and New Jersey Harbor Navigation Study, Upper and Lower Bay, Port of New York and New Jersey, Kings, Queens and Richmond Counties, New York; Essex, Hudson, Monmouth and Union Counties, New Jersey.

Lydecker, Andrew D.W. and Stephen R. James

2003b Target Investigations in Connection with the New York and New Jersey Harbor Navigation Study, Upper and Lower Bay, Port of New York and New Jersey, Kings, Queens and Richmond Counties, New York; Essex, Hudson, Monmouth and Union Counties, New Jersey. Draft Report.

Raber, Michael S., T.R. Flagg, Gerald Weinstein and Norman Brouwer 1996 Cultural Resources Reconnaissance of the Kill Van Kull Reach: New York Harbor Collection and Removal of Drift Project.

### IV. Contractor Services and Required Investigations

- A. The general services to be provided under this contract are those required to conduct, in the timetable and areas specified below, recording of six historic vessels located along the Staten Island and Shooter's Island shorelines, New York and New Jersey Harbor to satisfy the Corps' Section 106 requirements.
- B. The Contractor shall be responsible for conducting in the manner prescribed, the investigation detailed below. Failure to fully meet the fieldwork and reporting requirements of this Scope of Work may be cause for termination of work for default of the contract, or for an evaluation of unsatisfactory upon completion of the project.
  - C. This Work Order requires the completion of the following tasks:

### **Task 1.** - Background Research:

The Contractor shall conduct background archival research on the six (6) resources under study. This research shall be conducted to ascertain the history of the individual vessel as well as a history of the vessel type to determine how the example under study fits within a historic context. This work may include consulting with individual knowledgeable about maritime resources such as staff at the South Street Seaport Museum.

### Task 2. - Develop a Dive Plan and Health and Safety Plan:

a. The Dive Plan and Health and Safety Plan shall serve as a safety plan and research strategy for the underwater water work as well as the work on vessels accessible at low tide. The Dive Plan and all diving will comply with Regulation No. 385-1-93 of the Safety Contract Diving Operations Requirements (Corps 1991; Appendix A), Occupations Safety and Health Standards 29 CFR 1910, EM 385-1-1, "Safety and Health Requirements Manual" dated 3 November 2003 (Section 30 and Appendix O) and the

- U.S. Diving Manuals, Volume I and II, and all other applicable regulations and guidelines.
- b. The Dive Plan will be reviewed by the District's Agency Diving Coordinator (ADC) and the Health and Safety Plan will be reviewed by the District's Health and Safety Officer. <u>District acceptance of the Dive Plan and Health and Safety Plan must be obtained before any fieldwork is undertaken</u>.
- c. Both Plans will also indicate the location of the resources to be recorded and provide an overall research strategy for conducting the work.

### Task 3. - Recordation of Vessels:

This task includes the mobilization and demobilization for the survey.

- I. The vessels to be recorded, and level of recordation, are as follows:
- a. KVK Vessel 33. Menhaden Fishing Trawler. Accessible only by water and best at low tide, it is recommended that Vessel 33 receive complete recordation. Architectural documentation should include the profile, the plan view of the deck, and the longitudinal cross section of the vessel, all of which can be obtained during low tide by non-diving personnel. Diving aspects of the recordation should include recordation of the stern, including rudder and propulsion, and the bow. Photo documentation in the form of 35 mm and video should also be undertaken. Archival research specific to Vessel 33 should also be included.
- b. KVK Vessel 36. Wooden Hydraulic Dredge. Accessible only by water and best at low tide, it is recommended that Vessel 36 receive partial recordation. Architectural documentation should include recordation of basic dimensions. Photo documentation in the form of 35 mm and video.
- c. KVK Vessel 37. *Paul E. Thurlow*. Four-Masted Schooner. Accessible only by water and best at low tide, it is recommended that Vessel 37 receive complete recordation. Architectural documentation should include a plan view of the hull outline, deck stanchions, and holds. Diving aspects of the recordation should include recordation of the stern, including rudder, and the bow. Photo documentation in the form of 35 mm and video should also be undertaken.
- d. KVK Vessel 38. Floating Drydock. Accessible only by water and best at low tide, it is recommended that Vessel 38 receive complete recordation. Architectural documentation should include major dimensions, a plan view of the remaining hull, deck stanchions, bulkheads, framing, and the location of any remaining machinery. Since most of the original deck planking is no longer in place, thus allowing access to the internal structure of the pontoon, at least one cross section including internal strengthening of the pontoon should be included. Photo documentation in the form of 35 mm and video should also be undertaken.

- e. Shooters Island Vessel 2. Floating Drydock. Accessible only by water, it is recommended that Vessel 2 receive complete recordation. Architectural documentation should include the profile, the plan view of the deck, and longitudinal cross sections of the vessel along both the centerline and through at least one of the wings. Also, at least one cross section should be obtained including both wings and the location of internal bracing, and remaining machinery, if safe access is possible. Most of the above documentation should be obtainable by non-diving personnel. Photo documentation in the form of 35 mm and video should also be undertaken.
- f. Shooters Island Vessel SS16b: Unidentified Type; Composite Construction. Accessible only by water, it is recommended that Vessel SS16b should be fully recorded. Photo documentation in the form of 35 mm and video should also be undertaken.

### Task 4. – Prepare Salvage and Conservation Plan:

Should research and field investigations undertaken as per Tasks 1 and 3 conclude that Shooters Island Vessel SS16b in fact represents a unique and innovative technology as suggested by evidence so far, the Corps will undertake an effort to identify a repository interested in curating selected portions of the vessel, if found to be salvageable through further field investigations. The Contractor shall determine if any portions of the vessel, such as propeller or section of the composite construction, are worthy of salvage. If such sections are identified, the sections should be clearly marked on drawings. A verbal description of the sections shall be included and justification as to why the pieces should be saved. Based on field conditions a plan should be developed to guide the salvaging and storage of such pieces. A plan should also be developed that describes the process and time needed to conserve the selected pieces and provides a range of costs associated with the conservation effort.

### **Task 5.** – Data Analysis:

Conduct data analyses in order to synthesize the results of the recordation. In addition to discussions in the text of the report, the data will be presented as follows:

- a. A project area base map, outlining clearly and accurately, the inspection area on the appropriate portion of the relevant USGS 7.5' topographic quad sheet, with the name of the quad sheet clearly indicated in the map title and year of issue.
- b. Base map(s), delineating the location of all underwater inspections conducted, and the project baseline.
- c. Drawings of all vessels shall be presented at a scale appropriate to convey the required detail and information Photographs of the vessels shall include overview shots as well as close-up views of key features.
- d. An exact navigational record of the location and water depth of the targets will be made.

### Task 6. - Report Preparation

a. The Contractor will prepare a detailed draft and final report to the standards specified in Section V below. The New York District's Environmental Analysis Branch will be provided with four copies of the draft report for review. The draft reports should include scanned or digital photographs. The District, New Jersey Historic Preservation Office (NJHPO), New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP), and New York City Landmarks Preservation Commission (NYCLP) will review the draft report. All comments on the report will be transmitted to the Contractor for incorporation into the final report. The Contractor will submit (fifteen) 15copies of the final report, including five copies, with original photographs (one copy with original photographs will be unbound), the photographic negatives and a list identifying each, a copy of all notes and data, and any reports provided by the New York District to the Contractor. If digital photography is employed, CD ROMs containing files of all images must be included in a pocket bound to three (3) copies of the final report.

CD ROMs containing files of all DRAWINGS and PHOTOGRAPHS must be included in a pocket bound to three (3) copies of the final report.

- b. The Dive Plan and Health and Safety Plan, prepared as Task 2, and the interim report, prepared as Task 3(f), will be included in the Draft and Final Reports as Appendices.
- c. The draft reports will be reviewed by the New York District, NJHPO, NYSOPRHP and NYCLPC. All comments will be provided to the Contractor, who will make revisions to the Draft. The Final Report will address all comments received from the District.

### Task 7. – Project Management:

Project Management will ensure that all requirements of this Scope of Work are fulfilled and that there is timely submission of all reports.

- D. The Contractor will provide a safe working environment for all persons in his/her employ as prescribed by 29 CFR 1910 EM 385-1-1, "Safety and Health Requirements Manual" dated 3 November 2003; the U.S. Navy Diving Manuals, Volumes I and II; and applicable U.S. Army Corps of Engineers regulations. The Contractor will be responsible for all damages to persons and property that occur in connection with the work and services under this Contract, without recourse against the Government. The Contractor is responsible for having adequate insurance coverage for all activities required under this Contract. The dates for the dives must be coordinated with the New York District. A New York District Dive Coordinator may be required to be on site during the investigations.
- E. The Contractor will provide the Corps with an interim report upon conclusion of the underwater investigations. This update will summarize the results of the investigations based upon field observations and brief the District on the data gathered by this

fieldwork. This interim report should include the evaluation of the feasibility of salvaging portions of vessel SS16b.

### V. Report Format and Content

- A. The draft and final reports will have the following characteristics:
  - 1. Draft and final copies of the report of investigations shall reflect and report the analysis outlined in the Required Investigations section above (Section IV). They shall be suitable for publication and be prepared in a format reflecting contemporary organizational and illustrative standards of professional archaeological journals. The draft report will be revised to address all review comments.
  - 2. The report produced by a cultural resources investigation is of potential value not only for its specific recommendations, but also as a reference document. To this end, the report must be a scholarly statement that can be used as a basis for any future cultural resource protection.
  - B. The draft and final reports shall contain the following components:
    - 1. The **Title Page** of the report will state the title of the cultural resource study and the study level as indicated in the title of this Scope. The report title will specify whether the report is draft, revised draft, or final. The **Title Page** will also bear an appropriate inscription indicating authorship, the name and organizational affiliation of the Principal Investigator, and that the report was prepared for the U.S. Army Corps of Engineers, New York District. The source of funds used to conduct the reported work, the title and number of the contract and work order, and the date (month, year) the report was submitted will also be inscribed.
    - 2. If the report has been written by someone other than the contract Principal Investigator, the cover and title page of the publishable report must bear the author's name and organizational affiliation as well as the inscription "Prepared Under the Supervision of (Name), Principal Investigator". The Principal Investigator is required to sign the original copy of the report. In addition, the Principal Investigator must at least prepare a forward describing the overall research context of the report, the significance of the work, and any other related background circumstances relating to the manner in which the work was undertaken.
    - 3. A Management Summary of the findings, conclusions and recommendations of the study, appearing in front of the report and suitable for publication as an abstract. This should consist of a brief, quotable summary useful for informing the technically-oriented professional public of what the author considers to be the contributions of the investigations. The summary will also include the project name, type, location [county(ies) and municipality(ies) involved], and size as well

as the review authority. The location of the report copies should also be indicated. This will minimally be the files of U.S. Army Corps of Engineers, New York District, New Jersey State Historic Preservation Office, the New York State Office of Parks, Recreation and Historic Preservation, and the New York City Landmarks Preservation Commission.

- 4. A **Table of Contents**, including lists of all figures, plates, and tables presented in the report.
- 5. An **Introduction** stating the purpose of the cultural resources investigation and containing a general statement as to the type of evaluation conducted, regulatory authorities, and a summary of the findings and recommendations.
- 6. **Background Research** sufficient to assess potential eligibility and provide an historic context for wrecks. This section will include, but not be limited to the following elements:
  - a. A **Brief Description of the Environmental Setting,** relating specifically to historic or environmental factors affecting the location of submerged objects, such as military ordinance or shipwrecks, in the project area.
  - b. A Critical Review of Documentary and Background Research, including a brief summary of relevant historic events and sites in the project area vicinity and previous archaeological and historical research conducted in this area.
- 7. **Research Design,** which will include a description of the objectives and theoretical context, and any specific research questions. The Dive Plan will be referenced in this section.
- 8. **Methods,** which will make explicit the manner in which data were collected and analyzed and the identifications of any problems encountered during the investigations.
- 9. **Field Results** synthesizing all findings and the results of analyses. To the extent possible, the reasons for further investigation of a resource should be stated. If cultural resources are located which are not worthy of additional investigation to the National Register, then these reasons should also be stated.
- 10. **Recommendations** discussing the need for, or lack of need for, further cultural resources assessment, and the appropriate means of performing that assessment.
- 11. **Sources** section listing all references, citations, and consulted sources both within the text and within any appendices. This list must be in the format used by

professional North American archaeological journals (i.e. *American Antiquity*). Primary sources, personal communications, and other pertinent sources shall be annotated.

- 12. **Appendices** consisting of the Dive Plan, Health and Safety Plan, the interim report, instrument logs, and relevant field records.
- C. The draft and final reports shall comply with the following format requirements:
  - 1. <u>Page size and format.</u> Each report shall be produced on 8 1/2 x 11 inch paper, single spaced, with double spacing between paragraphs.
  - 2. All text pages, figures, tables, and appendices must be consecutively numbered.
  - 3. The text print must be letter quality printed on archivally stable paper.
  - 4. Graphic presentation format:
    - a. All pages, including graphic presentations, will be numbered sequentially. All figures, maps, tables, etc., will follow their reference in the text.
    - b. All tables shall have a number, title, appropriate explanatory notes and a source note.
    - c. All figures shall have a title block containing the name of the project, county, and state.
    - d. All maps shall display a north arrow, title, graphical scale, year of publication (and year of revision, if appropriate) and key, whenever applicable.
    - e. All graphic presentation, including maps, charts, and diagrams, shall be referred to as "Figures". All figures must be numbered and cited by number within the body of the text. All figures, etc., will follow their references within the text.
    - f. Graphic presentations will include, but not be limited to,
      - 1. a portion of the appropriate U.S.G.S. quadrangle showing the limits of the project area; and
      - 2. sketch drawings and photographs showing the visible targets as they appear.

5. **Photographs** will be glossy black and white prints, no smaller than 5 x 7 inches. Photographic illustrations should be securely mounted by use of an archivally stable mounting medium. They should be fully captioned on the reverse in case they should be removed from the report. Photographs should appear on the facing page of the subject they illustrate. Photographs should be counted as "Figures" in a single running series of illustrations.

### VI. Project Schedule

- A. The Contractor will contact the New York District upon official notice of work order award. The Contractor shall submit the dive plan to the New York District ten working days after the award of the work order is issued. Fieldwork will begin within ten working days of the Districts' approval of the dive plan. The Contractor shall furnish three copies of the interim report to the District ten working days after the completion of the underwater inspections. This report will briefly detail the results of this work and include an analysis of the feasibility of salvaging portions of SS16b.
- B. Four copies of the draft report, complete with all necessary maps and figures shall be submitted 90 working days after the Contractor's receipt of the approval of the dive plan.
- C. The draft report will be reviewed by the New York District, NJHPO, NYSOPRHP, and the NYCLPC. Comments from these agencies shall be returned to the Contractor, along with any comments pertinent to textual changes or deficiencies. Upon receipt of review comments from the New York District, the Contractor will have 30 working days to incorporate the comments into the final report.
- D. The Contractor will submit (fifteen) 15copies of the final report, including five copies, with original photographs (one copy with original photographs will be unbound), the photographic negatives and a list identifying each, a copy of all notes and data, and any reports provided by the New York District to the Contractor. If digital photography is employed, CD ROMs containing files of all images must be included in a pocket bound to three (3) copies of the final report. CD ROMs containing files of all DRAWINGS must be included in a pocket bound to three (3) copies of the final report.

### VII. Fiscal Arrangements

- A. Partial payment of the total amount allocated will be dispersed upon the receipt and acceptance of invoices. Invoices will be submitted monthly and with the Dive Plan, the Interim Report and the Draft Report. The total amount of these invoices shall not total more than 90% of the agreed work order amount. The remaining 10% of the agreed work order amount shall be paid upon the receipt and approval of the final report, photographs, original figures, etc. and the receipt of the final invoice.
- B. Payments will be made in accordance with the "Prompt Payment" section in the base contract.

C. Scheduled completion date for the work specified in this Scope of Work is 30 September, 2004.

### VIIL Additional Work Order Requirements

- A. Agencies, institutions, corporations, associations, or individuals will be considered qualified when they meet the minimum criteria given below. In addition to the cost proposal, vitae for the Principal Investigator and main supervisory personnel must be submitted in support of their academic and experiential qualifications for their intended positions, if they have not been included in the original contract proposal.
  - 1. Archaeological Project Director or Principal Investigator (PI). For investigations required by this Scope, the Principal Investigator position must be filled by an archaeologist who specializes in underwater/nautical archaeology as defined below. Persons in charge of an archaeological project or research investigation contract, in addition to meeting the appropriate standards for archaeologist, must have a doctorate or an equivalent level of professional experience as evidenced by a publication record that demonstrates experience in project formulation, execution, and technical monograph reporting. Suitable professional references may also be made available to obtain estimates regarding the adequacy of prior work. If prior projects were of a sort not ordinarily resulting in a publishable report, a narrative should be included detailing the proposed project director's previous experience along with references suitable to obtain opinions regarding the adequacy of this earlier work. The Principal Investigator must have at least one (1) year supervisory experience in underwater archaeology.
  - 2. Underwater/Nautical Archaeologists. In addition to meeting the formal qualifications for an underwater or nautical archaeologist specified here, individuals filling this position must also meet the qualifications for divers as defined below. The underwater/nautical archaeologist will have at least one (1) year of supervised experience in marine archaeology, including extensive underwater training. The individual must have a demonstrated knowledge and at least six (6) months experience in the methods. techniques, and use of equipment required for archaeological survey and data recovery at submerged shipwreck sites. The minimum formal qualifications for individuals practicing archaeology as a profession are a B.A. or B.S. degree from an accredited college or university, followed by 2 years of graduate study with a concentration in anthropology and specialization in archaeology during one of these programs, and at least two summer field schools or their equivalent under the supervision of an archaeologist of recognized competence; a Master's thesis or its equivalent in research and publications is highly recommended, as is the Ph.D. degree. Individuals lacking such formal qualifications may present evidence of a publication records and references from archaeologists who do meet these qualifications.
  - 3. **Standards for Consultants.** Personnel hired or subcontracted for their special knowledge and expertise must carry academic and experiential qualifications in their own

fields of competence. Such qualifications are to be documented by means of vitae attachments to the proposal or at a later time if the consultant has not been retained at the time of proposal.

- 4. **Institutional or Corporation Qualifications**. Any institution, organization, etc., obtaining the contract, and sponsoring the Principal Investigator meeting the previously given requirements, must also provide, or demonstrate access to the following capabilities:
  - a. Adequate field equipment necessary to conduct whatever operations are defined in this Scope.
  - b. Adequate facilities necessary for proper analysis and storage of records likely to be obtained from the project.
- C. Principal Investigators shall be responsible for the validity of material presented in their reports. In the event of a controversy or court challenge, the Principal Investigators shall be required to testify on behalf of the Government in support of findings presented in their records. An equitable adjustment will be negotiated at that time, if warranted.
- D. Neither the Contractor nor his representatives shall release any sketch, photograph, report, or other data, or material of any nature obtained or prepared under this contract without the specific written approval of the New York District prior to the time of final acceptance of the government.
- E. The Contractor shall furnish all labor, transportation, instruments, diving equipment, boats and other associated materials to perform the work required by this Scope.

# APPENDIX B: SALVAGE AND CONSERVATION PLAN FOR SS16B

September 30th, 2004

Ms. Lynn Rakos
Environmental Analysis Section
U.S. Army Corps of Engineers
New York District
Jacob K. Javits Federal Building
26 Federal Plaza
New York, New York 10278-0090

RE: Contract No. DACW51-01-D-0015, Delivery Order No. 0023

Recordation of Six (6) Vessels in Connection with the New York And New Jersey Harbor
Navigation Study Upper and Lower Bay, Port of New York and New Jersey Staten Island,
Richmond County, New York, and Elizabeth, Union County and Bayonne, Hudson
County, New Jersey.

Dear Ms. Rakos:

The following summary discusses the feasibility of artifact and/or hull and machinery component recovery and conservation pursuant to vessel SS16B as part of the above-referenced project.

### INTRODUCTION

From September 15th - 21st, 2004, Panamerican Consultants, Inc. (PCI) of Memphis, Tennessee conducted an underwater archaeological investigation of Shooter's Island vessel SS16B, as part of our response to the U.S. Army Corps of Engineers Scope of Work for the above-referenced project. This investigation was performed in accordance with Section 110 of the National Historic Preservation Act of 1966, as amended through 1992, and the Advisory Council on Historic Preservation Guidelines for the Protection of Cultural and Historic Properties (36 CFR Part 800). The purpose of this investigation was to record the extant remains of SS16B and to determine the feasibility of recovering and conserving portions of the machinery and framing. Vessel SS16B was determined during previous investigations (Lydecker and James 2002) to be a 70 foot long vessel of composite construction (wooden hull planking and iron framing) with a five-bladed propeller. Recommendations of the original 2002 study did not include further work for SS16B. However, during subsequent discussions with Mark Peckham of the New York SHPO, it was determined that SS16B represents a potentially significant vessel whose construction represents a transition between wooden and iron hull types. Also, it was suggested that the five-bladed propeller might represent a possible European influence on local shipbuilding, as that type of propeller is not common on locally built vessels.

### PRELIMINARY STUDY RESULTS

The study examined the vessel in its entirety, evaluating both construction methods and general condition. Specific attention was paid initially to the existing machinery and the condition of the

hull and framing. The vessel has deteriorated considerably, and very little framing exists above the turn of the bilge. What little framing remains exposed is considerably concreted, and has deteriorated to the point where it is easily broken by hand (Figure 1). The same is true for the outer hull planking; what is exposed above the bottom is heavily damaged by marine borers (Figure 2). There is no exposed portion of the framing with hull planks attached that is intact enough to warrant recovery. It is possible that portions of the vessel that remain buried are in better condition, but it is not likely that the effort required to recover buried remains is justifiable given the historical value of the hull structure. The vessel's machinery was also examined. Very little remains of what was probably a steam powerplant, reduced basically to a portion of the drive shaft and the propeller. The propeller was examined, and determined to have four blades, not five as was originally determined. There are two reasons for the original misidentification. 1) The propeller was considerably more exposed during the 2004 investigation. In 2002, the aft end of the vessel was covered by a greater amount of debris than in 2004, and three blades were fully exposed in 2004 versus two blades in 2002. 2) The visibility was considerably greater in 2004, being at least three feet for most of the investigation. Visibility was near zero during the 2002 project. The condition of the propeller was also assessed, and it was found to be in less than desirable condition, with eight to twelve inches of two exposed blades broken off (Figure 3).



Figure 1. Video frame of deteriorated iron framing of SS16B.



Figure 2. Video frame showing deteriorated hull planking.



Figure 3. Video frame showing broken end of propeller.

While the structure of the vessel and machinery is less than ideal from a recovery and conservation standpoint, there are artifacts present which could be of interest to a local museum. Specifically, the project recovered three fire bricks (Figure 4) of interesting design which can be conserved with minimum expense. Preliminary discussions with the Haverstraw Brick Museum, in Haverstraw, New York, indicated that institution showed an interest in the bricks.

Three bricks were recovered from the wreck. Two are of the tongue and groove type and have LEMB-A-PAT'D pressed into the top (Figure 4), while the third is a standard 9 inch fire brick with MONARCH pressed into the top (Figure 4). It is possible that neither brick type is associated with SS16B, as the only place on the wreck that would have fire brick is the boiler bas, and it is primarily constructed of iron and mortar. At least one other vessel nearby has a brick boiler base, although additional diving will be required to confirm that the bricks on either vessel are identical to these. No company has yet been associated with the first bricks, but according to Gurcke (1987:266), a Monarch brick was manufactured by the North American Refractories Company from 1930 to 1935. This date further suggests that the bricks are intrusive, as the late date seems to postdate this type of vessel. With that said, there were a large number of brick companies, and it is certainly possible that a common name like Monarch has been used more than once. For now, the origin of the bricks remains inconclusive.



Figure 4. Tongue and groove brick recovered from SS16B.

Given the condition of both machinery and hull, it is the opinion of the Principal Investigator that there are no sections of hull or pieces of machinery whose historical value justifies the expense of recovery and conservation. In all, taking both the condition of the wreck structure, and the recovered bricks, the maximum return on effort has been acquired through the complete recordation of the vessel accomplished during the project and no further recovery is recommended.

Once the vessel's condition was determined and the potential for artifact recovery had been assessed, recordation efforts began. A base line was laid, with BL 0:0 (Baseline 0' 0") at the stern and the bow at BL 71:6 (Baseline 71' 6"). A site plan was created, showing the locations of key remaining vessel features (Figure 5). Several interesting features were noted, including the aforementioned drive shaft and propeller, along with the mounting base for the engine, the fire resistant base for the boiler, several athwartships bulkheads, and several fuel and/or water bunkers. Also noted were additional details on the composite construction. It was determined that the keelson and ceiling planks were of wood, and the hull was double planked, making the actual frames the only apparent portion of the hull constructed of iron.

Among the remaining vessel components was the drive shaft and propeller. Beginning at the stern and extending to 16:2 on the baseline, the shaft is eight inches in diameter and appears to be cut at the forward end. Several shaft bearings and pieces of support structure are extant at BL 6:0 and 7:0, while at BL 14:6 is a heavily concreted object which is probably the thrust block.

Beginning at BL 18:11 and ending at BL 22:0 is what appears to be the bed plate for a steam engine. While nothing else remains of the engine, which was likely salvaged, the base consists of a rectangular iron box measuring 6' 4" wide, 3' 1" long, and one foot tall, with sides measuring six inches thick (Figure 6). Midships and in line with the drive shaft are two round bottom grooves of a similar inner diameter to the drive shaft. These likely represent the bearing seats of the engine's crankshaft. Given the size and shape of the bed plate, it is likely that the engine was a single cylinder upright marine of the type discussed by Hawkins (1904:400). Such an engine was used in small pleasure craft and harbor tugs due to its greater economy and smaller floor

Several items lead to the conclusion regarding the size and type of the engine. The size of the bed plate, with its inner chamber being roughly a foot wide, contains room for a crank with only one journal. Also, the boiler is large in size compared to the engine, but according to Hawkins, single cylinder upright marine engines of the type used in this boat require more steam than a compound engine of similar horsepower (1904:400):

"These engines require very little floor space in the boat, but on account of their greater steam consumption, need a larger boiler than compound engines." (Hawkins 1904:400)

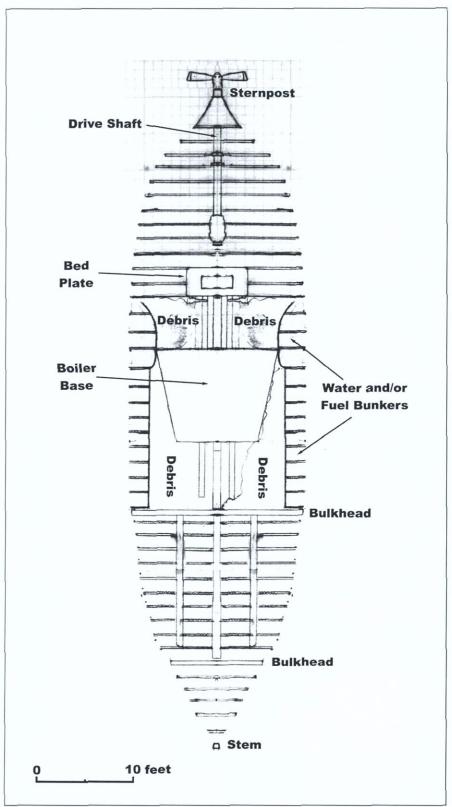


Figure 5. Preliminary site plan of SS16B

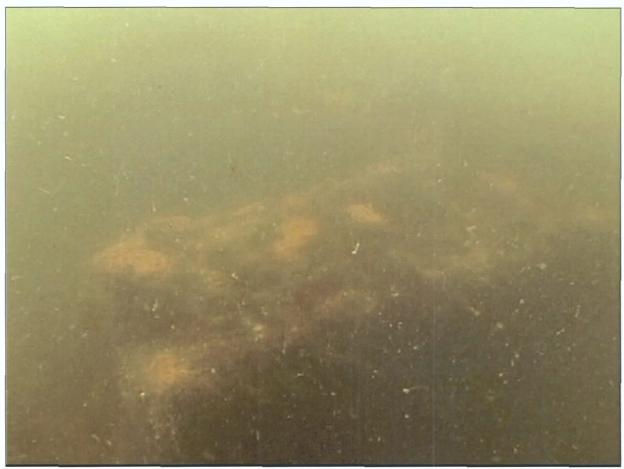


Figure 6. Video frame of starboard side of engine bed plate.

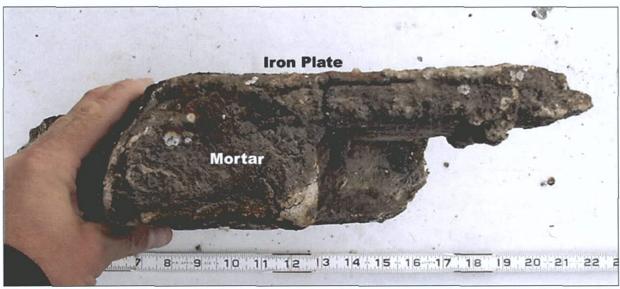


Figure 7. Section of boiler base showing top iron plate and mortar or concrete composition. Void on right side of section contained a brick.

The case for the engine being a single cylinder vertical engine is further strengthened:

"In small pleasure boats and small harbor tugs, which have to stop and start at short intervals, there is not much advantage to using a compound engine, as many times live steam has to be admitted to the low pressure cylinder in starting, which decreases their economy, and the single engine...would be most desirable, their first cost being much lower than the compound, and they are of extreme simplicity" (Hawkins 1904:400)

The use of such engines in harbor tugs and other small harbor craft is well documented. The 19<sup>th</sup> century wooden hulled tug boat documented at Huchinson Island in Savannah, Georgia in 1992 is an example (Watts 1992). Examination of the site plan of this 77-foot-long vessel (Figure 8) shows a very similar layout to that of SS16B, including the size and placement of the boiler base, steam engine, thrust block, and shaft bearings. Also, description of the remaining steam engine (Figure 9) indicated a striking similarity to that of SS16B. An important difference was noted in the placement of the condenser and air pump cylinder and lever, which were mounted on the port side of the Huchinson Island vessel. While the condenser and air pump cylinder are absent from SS16B, the remains of what appear to be the pivot for the air pump and other control levers are present on the forward side of the bed plate. The difference between the two vessels can easily be accounted for by a difference in steam engine design.

Forward of the engine bed plate and stretching between BL 28:0 and 38:0, is the base that supported the boiler. It consists of a large flat iron plate mounted atop a composite brick and concrete structure (Figure 7), the whole of which is supported by a wooden frame.

Immediately outboard of the boiler base on each side of the vessel is what appears to be a series of fuel or water bunkers. Heavily deteriorated, they stretch from BL 22:0 to BL 45:3 and are approximately 2 feet wide at ceiling plank level. The inner bulkhead is vertical, and the outer bulkhead is formed by the outer hull. The entire bunker area apparently was divided into three sections, as the remains of two inner bulkheads were noted at BL 36:0 and BL 30:0. The aft compartment of the bunker appears to be a separate entity, as it is wider and the inner bulkhead has a different shape than the forward bunker. The forward bunker corresponds in location to the side coal bunkers illustrated in Paasch (Plate 44), (Figure 10). Its location also makes sense from a functional standpoint, as coal would have been added to the forward end of the boiler. The aft bunker, being different in construction and location is likely a tank holding water for the boiler although no plumbing or other evidence exists to indicate such.

Forward of the boiler base, between BL 28:0 and BL 45:6, is an area of partially exposed keelson and ceiling. The keelson measures 0:8 sided while the molded dimension is unknown, but likely the same. The ceiling planks are 0:5 to 0:6 sided and probably 0:3 molded, although this was not directly confirmed. Ceiling planks are exposed approximately 3:0 to either side of the keelson, where they become covered with gravel and debris.

The remains of two athwartships bulkheads were recorded at BL 46:0 and BL 62:6. Both bulkheads have similar construction of wood timber fastened to the iron framing (Figure 11). remains of both extend only 8-12 inches up from the floors.

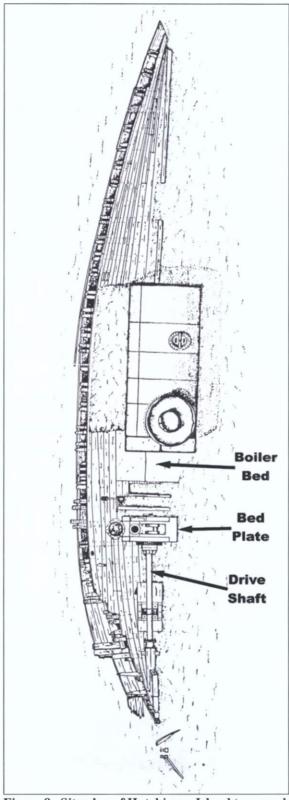


Figure 8. Site plan of Hutchinson Island tug wreck (as presented in Watts 1992)



Figure 9. Boiler and bed plate on Hutchinson Island tug wreck (as presented in Watts 1992).

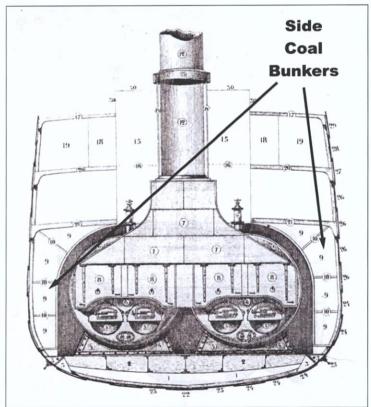


Figure 10. Illustration showing side coal bunkers on typical steamship (after Paasch 1890:Plate 44)

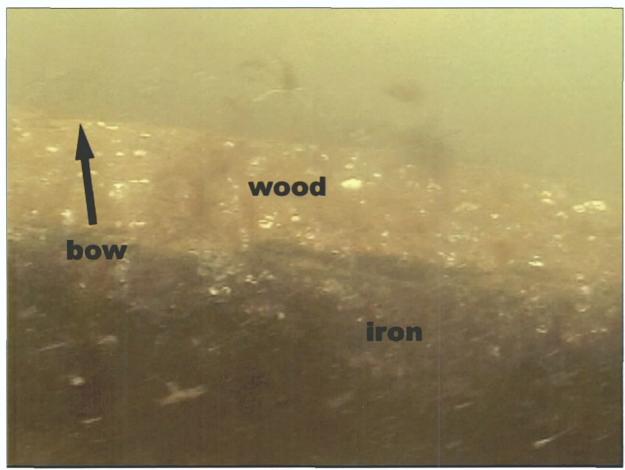


Figure 11. Video frame showing construction of athwartships bulkheads.

The stem consists of a wooden timber of 8 inch sided and 8 inch molded dimensions, and extends to approximately three feet off the bottom.

As previously mentioned, outer hull planking is highly deteriorated, with very little being both in good shape and attached to the framing. Much of the intact hull planking is at the bow and stern of the vessel, and has parted from the vessel frames and is either lying on the bottom next to the vessel or is attached on one or two frames only. Enough is extant for some basic observations to be taken, including scantlings. The hull appears to be truely double planked as opposed to initially single planked with sacrificial planking or repairs added later. Although highly eroded, scantlings appear to be 8 inches sided and 3 inches molded, while the outer planking is 8 inches sided and 2 1/2 inches molded.

Interesting details of the framing construction were noted. Initially thought to consist of I-beams, the frames were discovered to consist of a combination of sheet and angle iron fastened with rivets. Such construction is illustrated by Paasch (1890:Plate 38, Plate 29)(Figure 12), with the only difference being the use of a wooden keelson in place of the iron keelsons shown in the illustration. In addition to the framing shown in Paasch Plate 38, framing exposed at the stern of SS16B revealed side girders like those shown in Paasch Plate 29 (Figure 13). Both the side girders and the frames followed the Z-bar pattern (Paasch Plate 29-Z, Figure 13). Two-inch rivets were used to fasten the framing components. One important difference between the Paasch illustrations and SS16B is the existence of an additional longitudinal stringer placed across the frames directly above the side girder. This stringer was of composite wood and

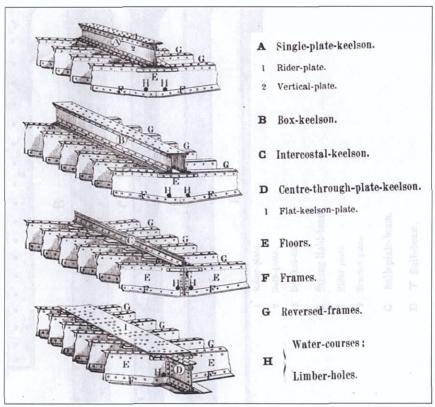


Figure 12. Illustration showing frame construction present in SS16B (after Paasch 1890 Plate 38)

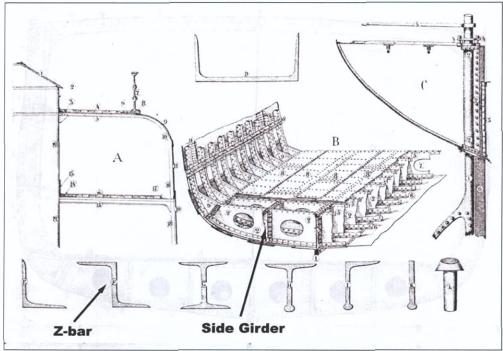


Figure 13. Illustration showing side girder framing and Z-bar like that found on SS16B (after Paasch 1890 Plate 29)

concrete construction, consisting of two 8 inch molded and 6 inch sided timbers with two inches of concrete sandwiched between. This stringer ran from BL 3:8 to BL 15:0 where it disappeared under debris. A similar stringer was noted on the starboard side.

Evidence of repairs to the fabric of the vessel in the form of a number of lead patches was also noted. These patches averaged 2 feet by 6-12 inches and were fastened to the inner side of the outer hull planking with fasteners of undetermined material. Many of the fasteners were missing or had been removed.

While considerable work has been completed on vessel SS16B, there is still data that need to be collected, including a number of cross sections as well as a profile of the wreck site. Also, the origin of the bricks discovered on the wreck needs to be further investigated. These will be accomplished as fieldwork progresses.

With regard to the recovery of hull sections and/or machinery components, it is the opinion of the Principal Investigator that, given the deteriorated condition of the hull and machinery, the historical value of the salvaged components would not justify the expense of recovery and conservation. Further archival research regarding composite construction tugs in general and this vessel in particular, as well as documentation of the extant remains of the vessel will serve to obtain the greatest amount of historical information for the time spent.

Sincerely,

Andrew D. W. Lydecker

Steven R. James, Jr., Underwater Projects Manager cc:

Dennis Petrocelli

# APPENDIX C: MEMORANDUM OF AGREEMENT

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# STANDARD MITIGATION AGREEMENT AMONG

THE U. S. ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT, THE NEW JERSEY STATE HISTORIC PRESERVATION OFFICER AND

THE NEW YORK STATE HISTORIC PRESERVATION OFFICER
REGARDING
SIX HISTORIC VESSELS

NEW YORK AND NEW JERSEY HARBOR NAVIGATION PROJECT RICHMOND COUNTY, NEW YORK AND UNION COUNTY, NEW JERSEY

WHEREAS, a Programmatic Agreement (PA) was executed on 12 April 2000 among the United States Army Corps of Engineers, New York District (New York District), the New Jersey State Historic Preservation Officer (NJSHPO) and the New York State Historic Preservation Officer (NYSHPO) for the New York and New Jersey Harbor Navigation Study (Study) and an amendment to the PA was executed on 21 April 2003 which now defines the study as the New York and New Jersey Harbor Navigation Project (Project); and

WHEREAS, the New York District has identified six (6) historic wrecks eligible for the National Register of Historic Places (NRHP) (Vessel KVK 33, KVK 36, KVK37, KVK38 and Shooters Island V2 and SS16b); within the Area of Potential Effects (APE) through investigations conducted under the Stipulation I (A) of the original PA; and

WHEREAS, Vessels KVK 33, KVK 36, KVK 37 and KVK 38 are on the Staten Island shoreline in New York State and Shooters Island Vessel SS16b is located just within the state line of New York State; and Shooters Island Vessel 2 is located just within the state line of New Jersey; and

WHEREAS, the New York District cannot re-design the Project to avoid the historic resources; and

WHEREAS, all parties have determined that additional measures shall be carried out;

NOW, THEREFORE, the New York District, the NJSHPO, and the NYSHPO agree that the undertaking shall be administered in accordance with the following stipulations to satisfy the New York District's responsibilities under Section 106 of the National Historic Preservation Act of 1966, as amended.

### **STIPULATIONS**

- I. The New York District shall ensure that the mitigation for the impact to these six historic vessels is undertaken as follows:
- a. KVK Vessel 33. Menhaden Fishing Trawler. Accessible only by water and best at low tide, it is recommended that Vessel 33 receive complete recordation. Architectural documentation should include the profile, the plan view of the deck, and the longitudinal cross section of the vessel, all of which can be obtained during low tide by non-diving personnel. Diving aspects of the recordation should include recordation of the stern, including rudder and propulsion, and the bow. Photo documentation in the form of 35 mm and video should also be undertaken. Archival research specific to Vessel 33 should also be included.

- b. KVK Vessel 36. Wooden Hydraulic Dredge. Accessible only by water and best at low tide, it is recommended that Vessel 36 receive partial recordation. Architectural documentation should include recordation of basic dimensions. Photo documentation in the form of 35 mm and video. Archival research specific to Vessel 36 should also be included.
- c. KVK Vessel 37. *Paul E. Thurlow*. Four-Masted Schooner. Accessible only by water and best at low tide, it is recommended that Vessel 37 receive complete recordation. Architectural documentation should include a plan view of the hull outline, deck stanchions, and holds. Diving aspects of the recordation should include recordation of the stern, including rudder, and the bow. Photo documentation in the form of 35 mm and video should also be undertaken. Archival research specific to Vessel 37 should also be included.
- d. KVK Vessel 38. Floating Drydock. Accessible only by water and best at low tide, it is recommended that Vessel 38 receive complete recordation. Architectural documentation should include major dimensions, a plan view of the remaining hull, deck stanchions, bulkheads, framing, and the location of any remaining machinery. Since most of the original deck planking is no longer in place, thus allowing access to the internal structure of the pontoon, at least one cross section including internal strengthening of the pontoon should be included. Photo documentation in the form of 35 mm and video should also be undertaken. Archival research specific to Vessel 38 should also be included.
- e. Shooters Island Vessel 2. Floating Drydock. Accessible only by water, it is recommended that Vessel 2 receive complete recordation. Architectural documentation should include the profile, the plan view of the deck, and longitudinal cross sections of the vessel along both the centerline and through at least one of the wings. Also, at least one cross section should be obtained including both wings and the location of internal bracing, and remaining machinery, if safe access is possible. Most of the above documentation should be obtainable by non-diving personnel. Photo documentation in the form of 35 mm and video should also be undertaken. Archival research specific to Vessel 2 should also be included.
- f. Shooters Island Vessel SS16b: Unidentified Type; Composite Construction. Accessible only by water, it is recommended that Vessel SS16b should receive archival research and be fully recorded. Photo documentation in the form of 35 mm and video should also be undertaken.
- II. Public access to the information generated from this project is desired and as such the report generated through the recordation described in Stipulation I shall be distributed to local repositories. A list of up to 10 appropriate repositories will be generated by the New York District and will be provided to the NY and NJ SHPO for review and approval. The New York District shall distribute this document to the repositories on the approved list.
- III. Should research and field investigations undertaken as per Stipulation I conclude that Shooters Island Vessel SS16b in fact represents a unique and innovative technology as suggested by evidence so far, the Corps will undertake an effort to identify a repository interested in curating selected portions of the vessel, if found to be salvageable through further field investigations. This effort will include contacting up to 10 appropriate institutions. A list of such institutions will be generated by the Corps and submitted to the NY and NJ SHPO for review and approval. If an institution willing to accession such item(s) is found, the Corps will salvage and conserve up to two diagnostic artifacts such as the propeller and possibly a section of the frame with attached wood planking and provide them to the institution for their collection.
- IV. The New York District shall ensure that qualified professionals meeting the National Park Service professional qualifications for the appropriate discipline [National Park Service Professional Qualification Standards, Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation (48 FR 44738-39)] are used to complete this work.

### V. TERMINATION

Any signatory to this Standard Mitigation Agreement may terminate it by providing thirty days notice to the other parties, provided that the parties will consult during the period prior to termination by certified mail to seek agreement on amendments or other actions that would avoid termination. In the event of termination, the New York District will comply with 36 CFR Parts 800.4 through 800.6 with regard to individual undertakings covered by this Agreement.

### VI. SUNSET CLAUSE.

District Engineer

This SMA will continue in full force and effect until the construction of the Project is complete and all terms of this SMA are met, unless the Project is terminated or authorization is rescinded.

Execution and implementation of this SMA evidences that the New York District has satisfied its Section 106 responsibilities for all individual Project undertakings stipulated in this agreement, and that the New York District has afforded the Council and the SHPO an opportunity to comment on the undertaking and its effects on historic properties.

NEW JERSEY STATE HISTORIC PRESERVATION OFFICE

Bv:	Date:
Dorothy P. Guzzo, Dep	Date: uty State Historic Preservation Officer
NEW YORK STATE F	IISTORIC PRESERVATION OFFICE
By:	Date:uty Commissioner for Historic Preservation
U.S. ARMY CORPS O	F ENGINEERS
By:	

# APPENDIX D: DIVE LOGS AND FIELD NOTES

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P.O. Box 050623 Tuscaloosa, Al. 35405

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Panamerican Consultants
P.O. Box 050623 Tuscaloosa, Al. 35405

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Panamerican Consultants
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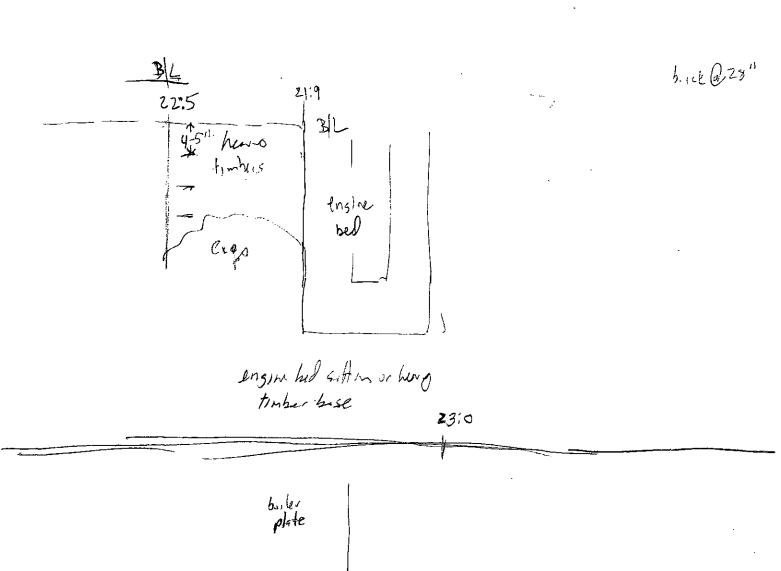
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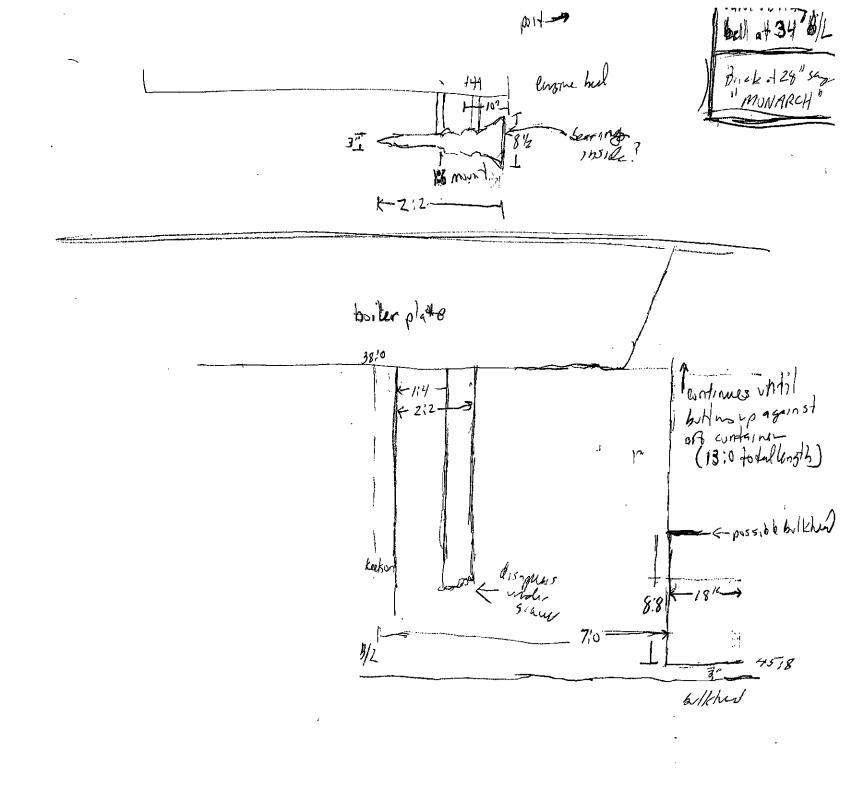
Panamerican Consultants
P.O. Box 050623 Tuscaloosa, Al. 35405

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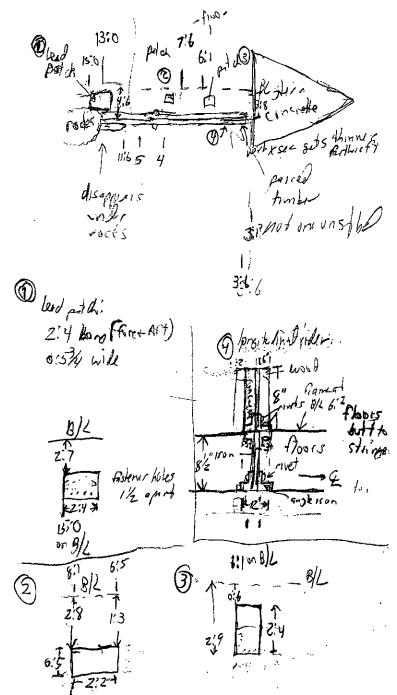
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without all ambetron appears to be 3" Famo is intel



Panamerican Consultants
P.O. Box 050623 Tuscaloosa, Al. 35405

Project_byts&ls	Dive #_>
Location # 55/6 B	Date
Vessel Sillin Yankoo	
	DIVE LOG
DIVER face   Period	PURPOSE Who, Int I when weet
THE COURT OF THE C	
ENVIRONMENTAL CONDITIONS:	
Current (/kb -	MODE AND EQUIPMENT:
Visibility 3 4 + Temperature 7 > 0	
Bottom Type 5,1+/dahc15	5/7
Other	
	Tank type 7
TENDER Rholes	OTHER DIVERS DOWN:
LEAVE SURFACE 9/28	/ ·
RISE SURFACE 10:52	$M/\rho$
TOTAL TIME 1.24	
MAXIMUM DEPTH 8'	
•	
MAXIMUM PLANNED TIME AND DE	PTH PTHEN PRINCE AND LOCAL PRINCE AND LO
TANK PRESSURE START 950/190	TANK PRESSURE RETURN 20 / 1400
TOTAL AIR USED /200	
TIMEKEEPER Checky	ONE-HOUR CHECKBACK
TIMEREEPER Cyclerer	OHI HOUR CHICAGO
WORK ACCOMPLISHED AND REMAR	uks:
Examin WARCK	
The state of the s	at a second
who of stimes a poil	Carpt creat Carly.
refrien boseline	
·	
<del></del>	

Ivano deckleen musicants. be ful dood de de de 3 14:4 8:9 4 13:1 28 2**9** 17:5 ,513,16,24,29 both det pers 18:10 30 23.2 27:5 *3*] 31:6 32 *1*0 41:5 anti also of totale (hill 44:3 // ): · · · 12 41:5 13 56:6 13451:11% 14 56:34 15 60:72 19 20 21 22 23 24 25 26 27 Deck wissing 64:11/2 14 66 14 1 42 plans 17 669:6 18 72:72 19 75:10% Zo 80:1 21 83.52 سيئن 2286:11 77 2390:5%

川鴻 115:6 119:53/4 304 120:11 123:44 128:74

27 106:9%

scantlings 10/28/04

1-37-

Deck Beams - 42 in centers 12x121n Beams

FUHOCKS\_

91n Space 2EH ROOM

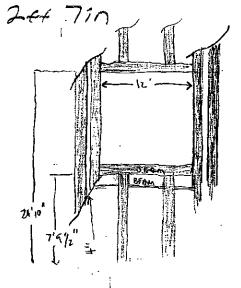
Futtocks to centerline 2014-

Beam = 40 Ft

M95+ Hole Plat form 74+ wide- port side a 16 1/2 ft from AFORTICAL

Most Hole

SECK KTOTCH - OPENING FROM FORWARD



port side	FUHOCKS	5 + Frames					
** ** ** ** ** ** ** ** ** ** ** ** **	FORN 10 14 15 16 1 19 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Aft 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15 (43 445 WH 48 49 505 52 53 545 56 7 58 59 60 61 62 53 64 50 60 70 71 71 71 71 71 71 71 71 71 71 71 71 71	113 8" 114' 9" 117' 8" 117' 8" 120' 4"	103'3" 104'5" 104'5" 106'0" 108'10" 112'9" 115'7" 115'7" 118'7" 120'3"	A Frame	
en in the second		- Principle's interpretation of the state of	-681	123' 5%"		A = Frame X = Cant P ) = Futtocl = Frame	inamest K. m.1.511.09
						- FIGUE	301

OC+29 PO(+ side Futtocks + Frames

Fore Aft 35/82 1254251 126++ 2in 83 126844in 1278+25n 1284 12844 9in 94 129612 14 129H 10/1 85 37/86 130H1/15 13/c+ 8in 13244 9 in 1324 37 38, 13466 41n 88 1334610 13561811 89 13441919 39/90 1374 lin 136442:n 9 1376+41h 13844 4in 40 140E+ 92 13944 Uin 140H 417 14/E+ 21n 93 94 14364 1:1 142et 119 1498+ 117 95 143H 212 42/96 14444914 145H 7in 97 14564 11in 146++91n 1476+8in 14821510 98 148648in 14901750 99 150449 in 44/100 15/4 8in 15/4+ 11:n 101 1526+ 91n 1536+8in 1544 6in /102 103 154E+1/11 1556+ 9in 46 156E+4in 104 157++2:1 157448in 15846in 105 TO. 159++2in 15964 11 n 160E+ 211 16/Ex 199 107 1626+ 10:0 16264 Of icy 1638+21n 164Et 165E+5in 110 16447in 1.654 11in 166K+7in 117 168 et 6 in 112 16744810 168449in 113 1696+61h 1704+6in 116 17/et415 115 116 173++55n 174c+3in 117 118 119 720

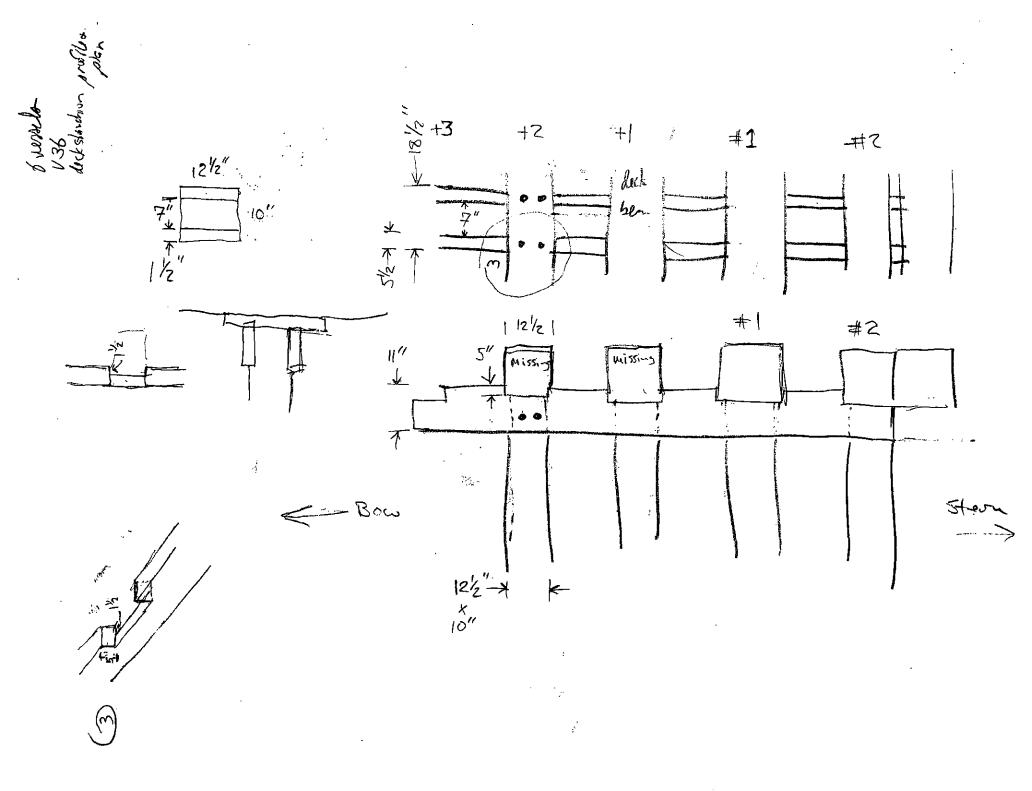
A Deck Beams 31232 additional mast Hole

The futtocks are Missing from this point act

-( ?=missing de John And Am Dof Bet Shall Outer hall phosely

(0) 1/2 1/2	A STATE OF THE STATE OF T		13" moldel?
<b>*</b>	this timber hotch I to stype	days 12"	e12" molded
<del></del>		19th - The	<u>k</u>
-	<u> </u>		order hill // al

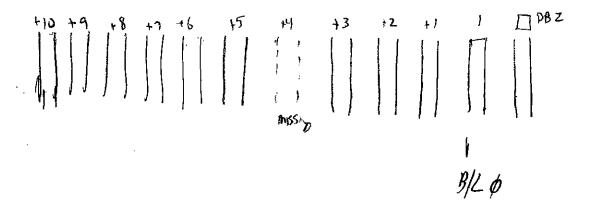
taken of Deck Ben 3



## 29 Oct 84 Deck Crown Measurements

Ceuter	8' 17'1" 26' 33'	8/2" 6" 4/2" 5/2" 7/2	
s <del>e</del> t	6" 8' 17'1" 26' 33'	71/4" 5" 4" 51/4" 71/2" Total	Span





```
51X VESSELS -
```

AL MKF JME

4 MASTED SCHOOLED

FROM FROME OF WATER WAY ON PORT SIDE:

```
DEPTH .
                    14' 2"
 5
           1'2"
                    14: 7"
                                                                  SEDIMENTS = = 51
           2" \"
                    14' 8'/1"
                                                                   IN THE VESSEL
           311"
                    141 9"
                                                                   140M
           41
                      SKIP
          5'3"
                    12' 31/2
                              RIDER/KERLSON ?
          8110"
                    12, 1854
          10' 10"
                     151.6"
          13"
                     13' 7"
                             SISTER OR KERLSON
                     15'5/2"
  NOTE:
          12'
          44"11"
                     12'6"
                              KEELSON ?
          16
                     12 5/2
          17 ' 1"
                      15' 9"
                     DEPTH
FRAME
                     \\'4/2"
          0'
                     13/8/2"
          ο′n"
                     14'7"
          2'9"
                      15'.7"
          412"
                      15:2"
          611"
                      15. 7"
                      16' 6/2"
          カ'11"
                                (POSSIBLE 15')
          16'3"
                       15 6/2
          12'3"
                       15'7"
          14 2"
                       11'10"
          is'
                       11'6"
                                PROPS TOP KEELSON
```

FRAME

E bow

4/55LO \$3:10

3:10 kdon 2nd dad level



## hill will had harton calls platt actility plank

10:5 of 3:0 page 3.2 Clark / 131834 5th S. Hock / 14:11, 2 7 that 16, \$ 14 17/13/4 1021 FHAZI:81/2 134 23,8 25:532, at forward b. (klad) 20 29:23/4 The pt sided you dick brok from DB /

13:35/g from inside of ortsile stanto 15th deck standion

Trans

PT. Siv fax

Z

Mander And Both Shills

(in the second s	***************************************		17//
this to be hoteland to receive	dorf	个,,	«12" mol del
hoteful to regard	had	1	
		an thek	

taken of Deck Ben 3

+10 +9 +8 +7 +6 +5 +4 +3 +2 +1 1 B/L Ø

#### 29 Oct 84 Deck Crown Measurements

Center 171" 41/2" 26" 51/2" 33' 71/2

8' 17'1"

336' Total Span

scantlings 10/28/04

1-37-

Deak Beams - 42 in centers

12X12In Begins

FUHOCKS\_

91n ISPACE

2EH ROOM

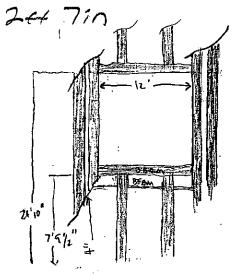
Futtocks to centerline 2014-

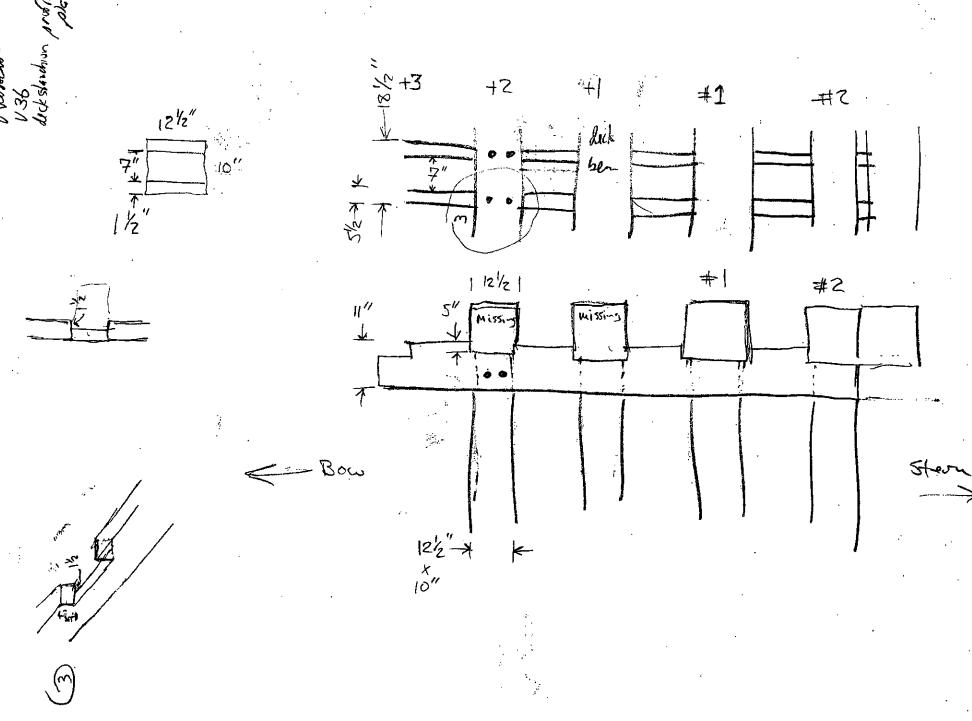
Beam = 40 ft

M95+ Hole Plat form THWILL- port side a 16 1/2 Ex From Futtack

MAST HOLE

HOTEH - OPENING SECK -FROM FORWARD







# hill with direction coals plattech plank

yo:5 1st exer 11:6 4 3:Dpop Juckban 3.2 ClAsek / 131 934 5th (Hoch) 14:11, 5 7 th CHUK/16, 3/4 ATEHOR 17/13/4 10-13 CHAZI: 814 133 23,8 at forced h /klud 25,5% 26.44 29:23/4 16:974 to pet sided you deck HI CHOCK bock from

13:35/g from inside of out sile stanto 15t deck stanshion

M. Siv fax

Z

POPT 510	le Futtoch	S+ Frame	5			·.	
**************************************	FORM 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Aft 1010 1144 1010 1144 1010 1144 1010 1144 1010 1154 610 1154 210 1154 210 1154 210 254 210 254 210 254 310 254 310 254 310 1010 1010 1010 1010 1010 1010 1010	15 (43 44 647 69 19 20 21 22 23 49 66 12 36 66 18 69 70 71 71 71 71 71 71 71 71 71 71 71 71 71	90' 10" 92' 93' 8'' 94' 10" 96 6" 97 '6" 100' 6/2" 105' 2" 106' 4" 108' -	103' 3" 104' 5" 106' 0" 108' 10" 11'8" 112'9" 114'7"	MISSING	
13/14/20	536+ 2in 546+ 6in 556+3in 576+5in 576+5in 656+41in 636+41in	5444 317 55446:17 5744211	30 71	110 8" 111fr 11:00 113 8"	(11'8" 112'9" 115'7" 115'7" 120'3" 121' 7/2" 123'2"	A = Frame  Cant F  L= Futtoci	Frames
. N			•	.5	-(	= Frame	

OCT 29 POST Side Futtocks + Frames

	Fore	AFT
35 82 83	1254250	126et 2in
	126441n	12766250
34 34 95	12864 129641	1294 9in
27/96	13041/14	129++ 10/1
37(96	13264	13/et 8in
38 88	13346in	134A 41n
89	134449in	135€+811
39/90	136442:n	1374 1in
91	1376+414	13864 4in
40 92	1394 Uin	14084
93	140et 417.	141E+ 211
41 (94	142 et 187	14364 1:0
95	143et 2in	14484 117
42(96	14444 91h	1454711
(97	145ex 11in	146++91n
43/98	147e+8in	148£1511
99	148648in	149et 750
44 (100	15049 in	15/4 8in
	15/4+ 11:n	15264 91n
45 (102	1536181h	1544 6in
116	1546+//in	155E+ 917
46 (100	156et4in	157421
165	157448in	15846in
42(106	1594+2in	159E+ 11/1
48 108	160f+ 217	16/64/19
100	16264	1626+ 10:19
109	16344 21n	
110	16447in	16544511
117	16541/11	16647in 16846in
. 113	1674781A	1696+6 in
114	17041619	17/2/4/19
115	7	
716	17344510	174e+3in
1/7		ומנישורייו
118		:
119	•	}
720		
		[:

A Deck Beams 31232 additional mast Hole

The futtocks are Missin from this point act

7= missing

```
SIX VESSELS -
```

AL MKF JME

4 MASTED SCHOOLER

FROM ROUR OF WATERWAY ON PORT SIDE:

```
___ DEPTH
                  14' 2"
5
         1'2"
                  14: 7"
                                                               SEDIMENTS = = 51
        2" 1"
                  14' 81/2"
                                                                IN THE JESSEL
        311"
                  14' 9"
                                                                HOSD
                    SKIP
        5'3"
                  12' 31/2
                            RIDER/KERLSON ?
                  15' 142"
        8'10"
        10' 10"
                  151.6"
        (3
                  131.7"
                           SISTER OR VERLOW
                   15' 5/2"
        12
NOTE:
        14'11"
                   12' 6"
                            KEELSON?
                   12' 5/2
        16
        37" 1"
                   15' 9"
```

FRAME		DEPTH.
(	$=V^{I}$	\\ 4 1/2 "
	o',	13'8'/2"
	0'11"	14' 1"
	2.19"	15'.7"
	4',2"	15(2"
	·6 ' \"	15. 7"
•	守'11"	16'6/2", (POSSIBLE 15').
•	10'3" 12'3"	15 6 1/2"
	14'2"	//, 10,,
	15'	11'6" PROB TOP KEELSON

FRAME

6 bow

MBS10 75

3110 befor 2nd had level

teck ben (5-M") ø 0

Deck Ben 89 15 miss - appers to here been smeller porhaps 9x9

for and own holdes

Min Browner Fish Hawk
Togbood Enthrosoder See possibly ownedby Morania towns
Smith bought Fish Nank
plant in Belford 67 perts carefor

Franco deckler mersvenits. be mors no 40.4 ful dos 14:4 8:9 13:1 111:13 17:5 5 both but pers 513/16,24,29 29 115:6 18:10 5q 30 119853/4 23.2 304 120:11 27:5 3) 123:42 3/16 128:74 32 41.5 it, else of Ethete (hill plant migs) in 44;3 41:5 12 13 50:6 13451:11/2 14 56:34 60:73 64:11/2 14 6614 17 6916 18 72:72 19 75110% Zo 86:1 21 83:54 90.H 2286:11 23 90:5/2 27 166.9%

#### red

rechick room Aspraon deck bears

= recheck mussements on holikes a mest steps

- recheck deck bear count, esp at all hat ch
- more with measure into aft
- musual fin forard deckber to stem

- hull lims - midship XECC

- deckwidths for all aft

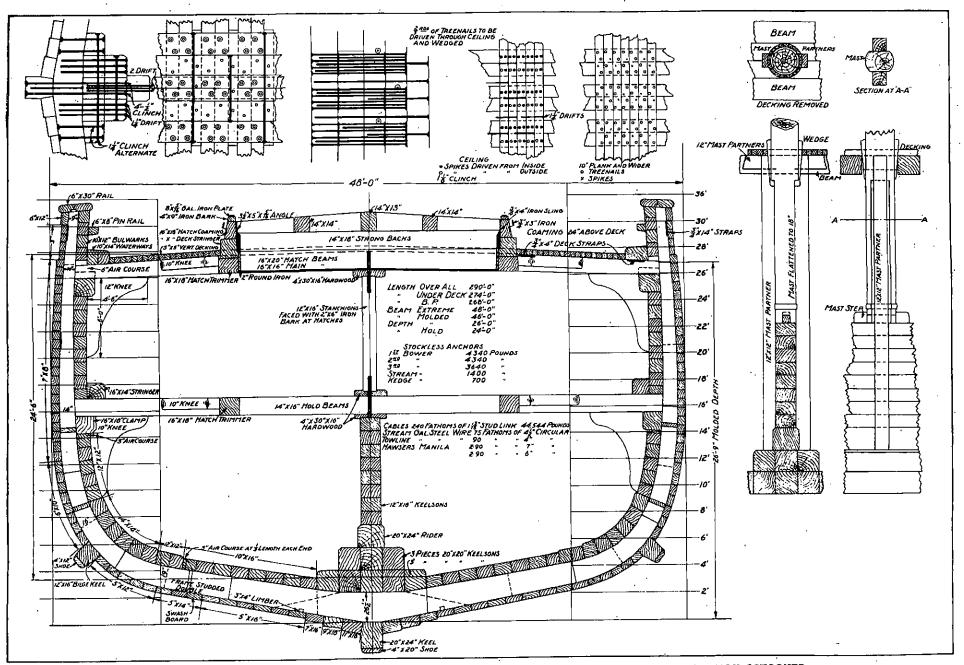


FIG. 36-MIDSHIP SECTION AND CONSTRUCTION DETAILS OF A 290-FOOT, 5-MASTED TOPMAST AUXILIARY SCHOONER

Mysid com Hum Deck Ben 89 15 miss - appears to ben here been smoller prhys 9x9 0 for and own hitches 15-19

Main Bourses See pssibly ownedly Morania towns
Smith bought Fish Na.

plant in Belfild 6: perts call

## 137 Pal Thillow Week

· 3 Deck beams or a-8

3 4

(Kd roke &

Deat plante ble

(3) offset I mes

(14) Slanchions

Mandof Bek shilt

2			13"moldel?
this to be holding to receive	deef	が、、 に に に	e 12" mol ded
did bens	A	an Thek	
		2,0	oterhully

taken of Ook Ben 3



+10 +9 +8 +7 +6 +5 +4 +3 +2 +1

## 29 Oct 04 Deck Crown Measurements

Center 17'1" 41/2" 26" 51/2" 33' 71/2

171" 26, 5 1/4" 33' 71/2"

336' Total Span

scantlings 10/28/04

1-37-

Deck Beams - 42 in centers

12X12In Begons

FUHOCKS\_

91n ISPACE

264 ROOM

Futtacks to centerline 20ft-

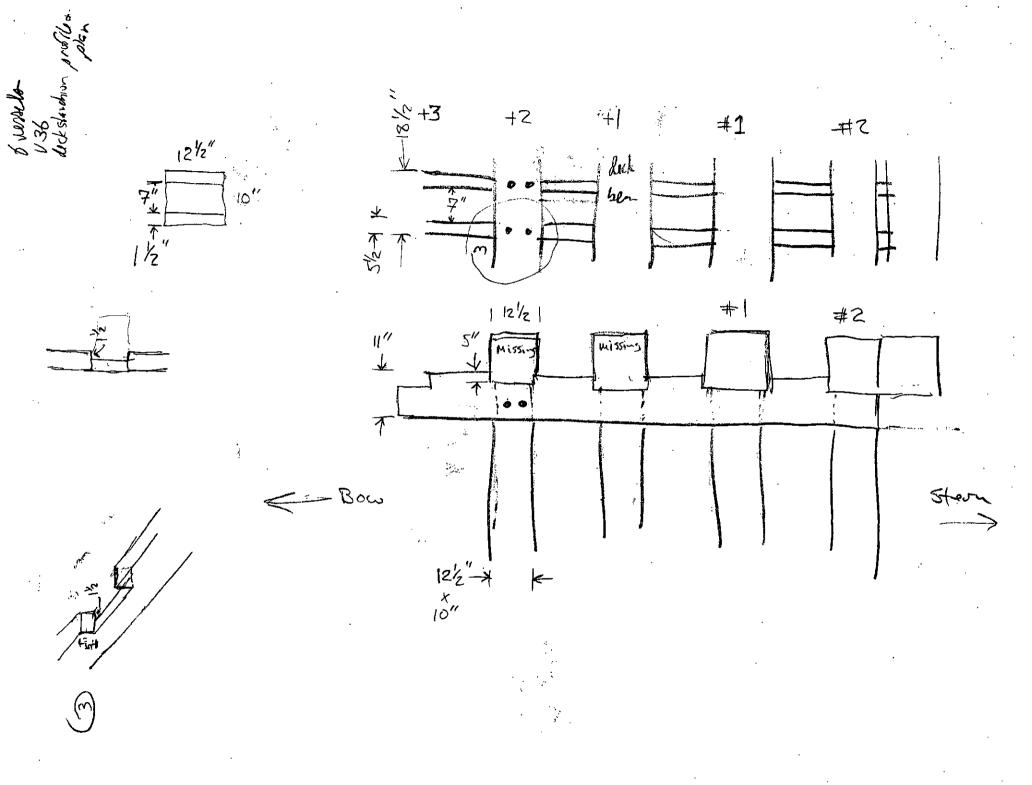
Beam = 40 ft

M95+ Hole Plat form 7 ++ wide- port side a 16 1/2 & from Fortack

24 7in

Mast Hole

SECK KROCH - OPENING FROM FORWARD





## hill with direction calls platt & colly plank

yo:5 11:6 of 3:0bda 3,1 ClAsek / 131 934 5th [Har] 14:11/2 7 th Atak 16: 3 14 At Ellow 17:1134 1045 FHAZI:84 135 23,8 25:52, at forward hilkhard 26:44 29:23/4 16:9 1/4 to put sided you deck HI CHOCK Esck from DB /

13:35/g from inside of ortside starto 15t deck startion

P.T. Siv fax

A

- F	off side	. FUHOCKS	S+Frame	5			÷	
•••	<b>※欠!</b> * * * * * * * * * * * * * * * * * * *	Fore 646in 748in	AFT 7++611 8++711	1 <u>5</u> (42)	FORE 6797 10 W 68' 10"	69' 9"	1	
1	**************************************	84 1017 108+ 114219 124619	9++ 10in 11++ 12++ 410 13++ 6in 15++ 2in	16 (44 45 17 (46 18 (48 49	70' 6" 71' 8" 73' 6" 74' 9" 76' 2" 77' 4"	71' S" 72' 6" 74' 5" 75' 6" 77' 2" 78' 4"		
C 7	第二十二	1545in 164 gin (1842) 1944in 2142in 2249in	16ct 6:n 18tt (19tt 2:n) 20tt 7:n 22ct 3:n 24ct 1:n	19 (50 20 (51 20 (52 21 (54 55	79'Z" 82' 4" 83' +" 85' 86' 2"	80'1" 83' 0" 84' 2" 86' 87 2"	MISSING-	
34	* * * 15 * * * 16 * * * 17 * * * 17	24+4'in 27+614 27+614 29+114 30+4 617 32++ 217	2544 410 2744 210 2964 550 3064 310 3164 810	22 56 57 23 58 59 24 60	87' 11' 89' 0" 90' 10" 92' 93' 8" 94' 10"	87' 4" 90'1" 91' 4" 92' 10" 94' 6"		· ·
<u></u>	5 20 21 22 23 4 24 7 25	33++7:n 30-+2:n 39+10:n 41+47:n 42+411:n	3364 31h 34c4 31n ? ? 1044 101n 4344 111n	25 62 63 26 64 65	966" 97 10" 99'6" 100'6/2"	95' 9" 97'5" 98 '6 ? 100' 3'/2"	? Eronew	
£	7 (\$724) 8 (\$727) 8 (\$729) 9 (\$739)	4941 717 454+ 1013 4744 819 4841119 50477219	45ft 7/7 46ft Din 48ft Bin 49ft Din 5ket 6/2in 52ft 7/2in	27 667 28 69 29 70	102' 4" 103' 6" 105' 2" 106' 4"	103' 3" 104' 5" 106' 0" 107' Z"	MISSING.	
	13 A 3 8	53c+ 2in 54c+ 6in 56c+3in 57c+5in 59c+ 60c+44in 62c+ 63c+4in	5444 319 5544 6:0 574219 5844 519 6044 6164 319 6344 6444 319	30 12 31 74 15 32 76 77	1115 B" 1115 T II N 113 B" 114 ' 5" 116 ' 8"	11/8" 12/9" 115/7" 115/7" 115/7"		#. <sub>2</sub>
	14 841	6444 81n 654 11117	654+ 8/2 666+ 11in	33 78 79 34 90 81	19.6" 120 4" 123' 5%"		A = Frame	
٠		,	Cory A All Market State Corp.	,			= Frame	K m15009

Oct 29 Port side Futtocks + Frames

•	•		
020	Fore	AFT	
35 82 83	125-21211	126+ 210	-
36/94	1284	12844 9in	
36 94 95	1296/2 in	12 get 10'n	,
37/86	1304 1/11	13/et 810	
( ) /	13264	1322+ 917	
38 88	13346in	13444411 13564811	
39/90	13642:n	13741in	
	13784411	13844 4in	
110000	1394 Uin	14064	
40 92	140et 417	14/et 211	
41 (94)	1424 Nn	143et 1:n	
95	143H Zin	149Et 117	
42(96	144449ih	1454711	
	1454 //in	146x+911	
43 (98	147e+8in	14841511	
99	14864811	149et 7in	
44 (100	150449in 1514411in	15/4 8in	
UE /102	1536+8in	15464 9in	
45 (102)	1546+11in	155E+ 917	
46 (104	156et4in	157et2:1	-
105	157448in	15846in	
47/106	159442in	15964 11:n	
	1606+ 2:1	1614 1in	
48 106	1626+	1624 10:n	
407	1636+21n	16464	
110	1644 7in	1654519	
11/	16541/in	166++7in 168++6in	
113	1674781A	1696+6in	
114	1704+6in	17/Et415	
115		3	
716	173++510	174c+319	
117			
118			
119		1	
120			:
		}	

A DECK BEAMS 31232 additional mast Hole

The futtocks are missing from this point act

-C ?=missing

```
SIX VESSELS -
```

AL MKF JME

4 MOSTED SCHOOLED

```
FROM FLOURE OF WATER WAY ON PORT SIDE:
```

```
DEPTH .
                    14' 2"
           O
 5
           1'2"
                    14: 7"
                                                                  SEDIMENTS = = 51
          211"
                    14' 81/2"
                                                                    IN THE VESSEL
          3119
                                                                   HOLD
                    141 0"
           4'
                      SKIP
          5'3"
                    12' 31/2 RIDER/KERLSON ?
          81,1011
                     15' 142"
          10, 10,1
                     151.6"
          13'
                     13' 7"
                              SISTER DR
                                        Keelson
                     15' 5/2"
          12'
  NOTE:
          14'11"
                     12' 6"
                              KEELSON?
                     12' 5/2
          16.
          17" 1"
                      15' 9"
                     DEPTH.
FRAME
                      114/2"
          0'
                     13'81/2"
          Ŏʻn"
                     14'1"
         7'9"
                      15'.7"
          4 2"
                      15:2"
          6'1"
                      15. 7"
                       16' 6/2"
          守'11"
                                 (POSSIBLE 15')
          10'3"
                       15 6/2
                       15'7"
           14'2"
                       11 10"
           15'
                        11'6"
                                . PROB TO P KEELSON
```

FRAME\_

E bow

6155LO 3115

310 befor 2nd hack level

also world Deck Ben 89 15 miss - appears to ben O 0

> pssibly owned by Morania towns Smith Belfild Greets ca 1960 Norm Browner Tigheal Enthusied & See

here been smaller prhys 9x9

for and own holds

## V33 Deckplandgm levels

- 1) Main Leck
- 40) Trilat locations
- 3 Deckframing, main
- 63) offset Imes Magenta

Deck planking
Blue

68 Unised lines

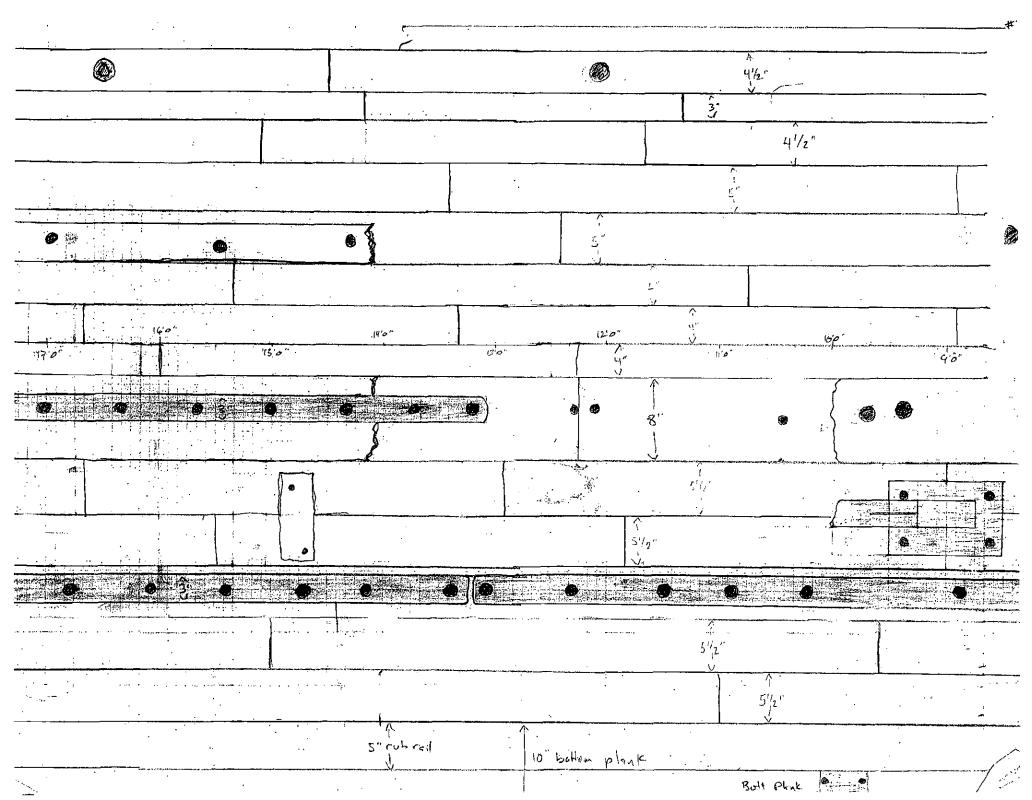
- 4) Baseline
- 5 Centerline
- 6 Detritings
- (8) Deck Framing, quatri deck
- 10 Sul deck framing

Told Station

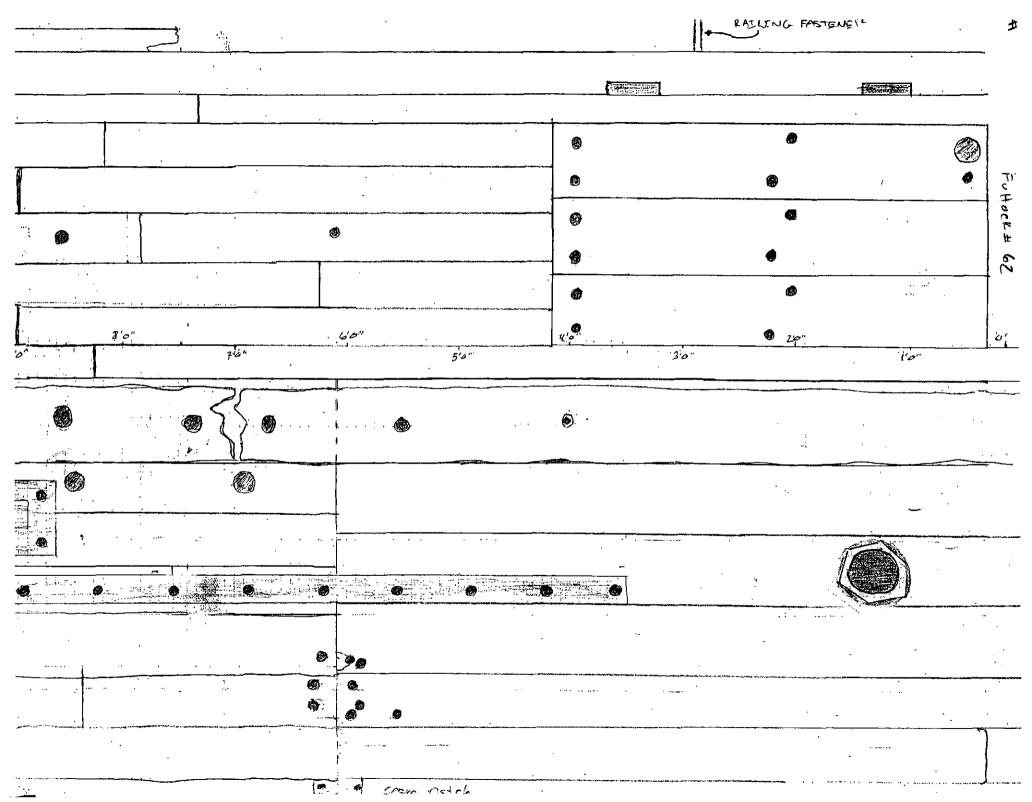
1. Schop o level gun 5000,5000 100 501 e si, s Commission such crate pt 2 Back stc hoth po5 (edit coulds) 5010 5000 100 pace at 10 m, set prism on gum - set hurizontal Wenning: SU: HZ level "Zeroins grn" phism most hothis eventing Set up Scielh Soul 5. Plig liber collectorin turn on 6. Open edit existing you (H) 10 min Chekon AR = 0.0 posh solve - sun will take reading -after solve, will come proth other mone extensions That J. - traverse / Stale shot 
procedure

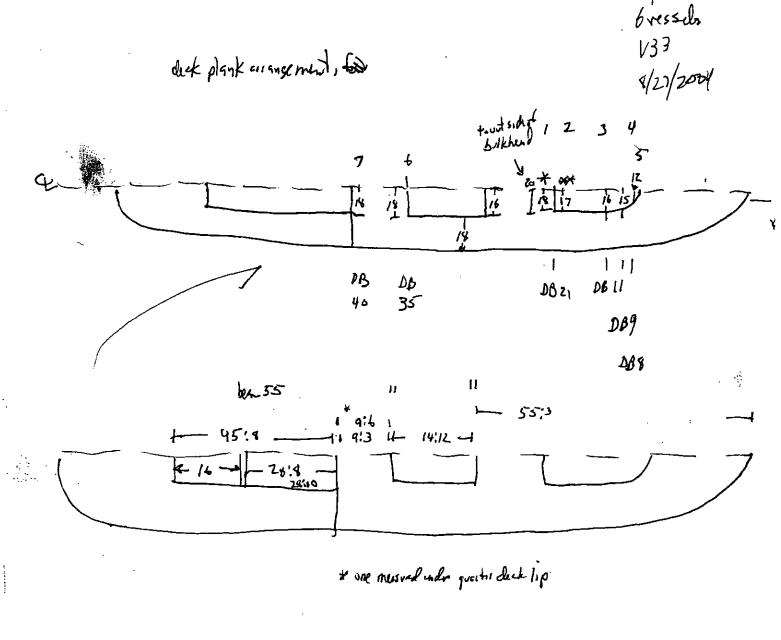
The p pt takus rocedure do heksight to pt 3 - occipying pt

I -transs/sile shot go pate points!



Vessel Centerline (22'0" on boseline) 27.0" 18'4" 2('0" -15'0"





55%

**44.5** 

140:6

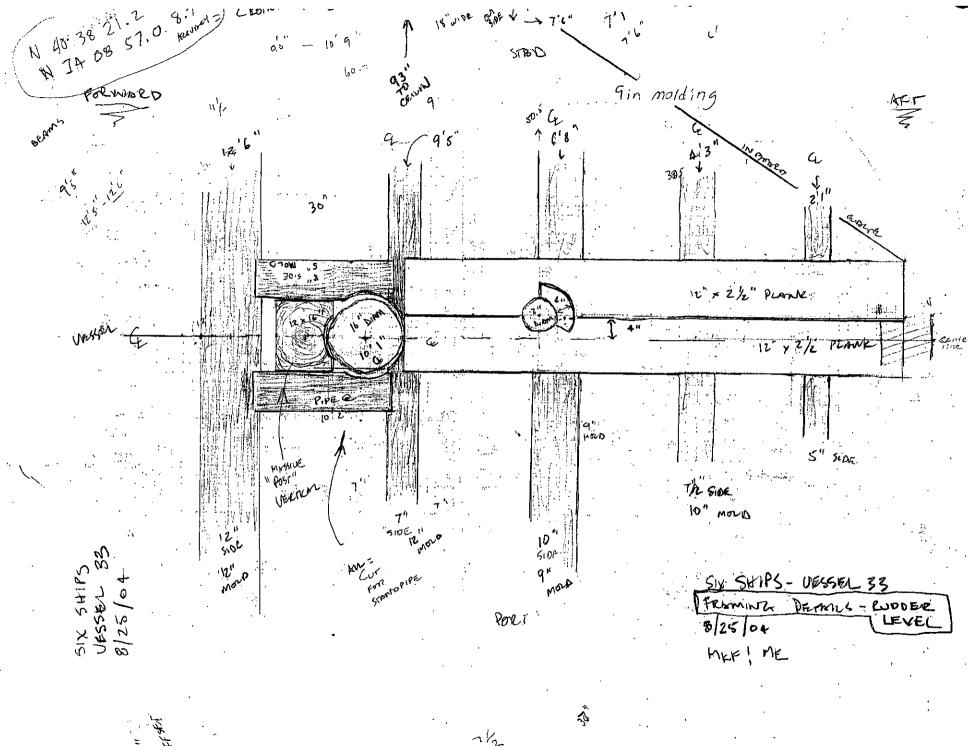
Lydeller

\* Includes #16 ortfrom Kino Planks which is smaller - See leter / drawny

\* Same with as 1,6 of plant planks of establin bulkhed accorder

55:3 15:00 9:6 9:6 9:4 124:17

.



SIX SHIPS -VESSEL 83 8/23/04 AFT END STEFIRINZ MECHANISM

52" CENTER TO BUTSIOF

3 "Nems" SPORES

C" Rec Rows 22 8 8 Res

A" WIDE Y

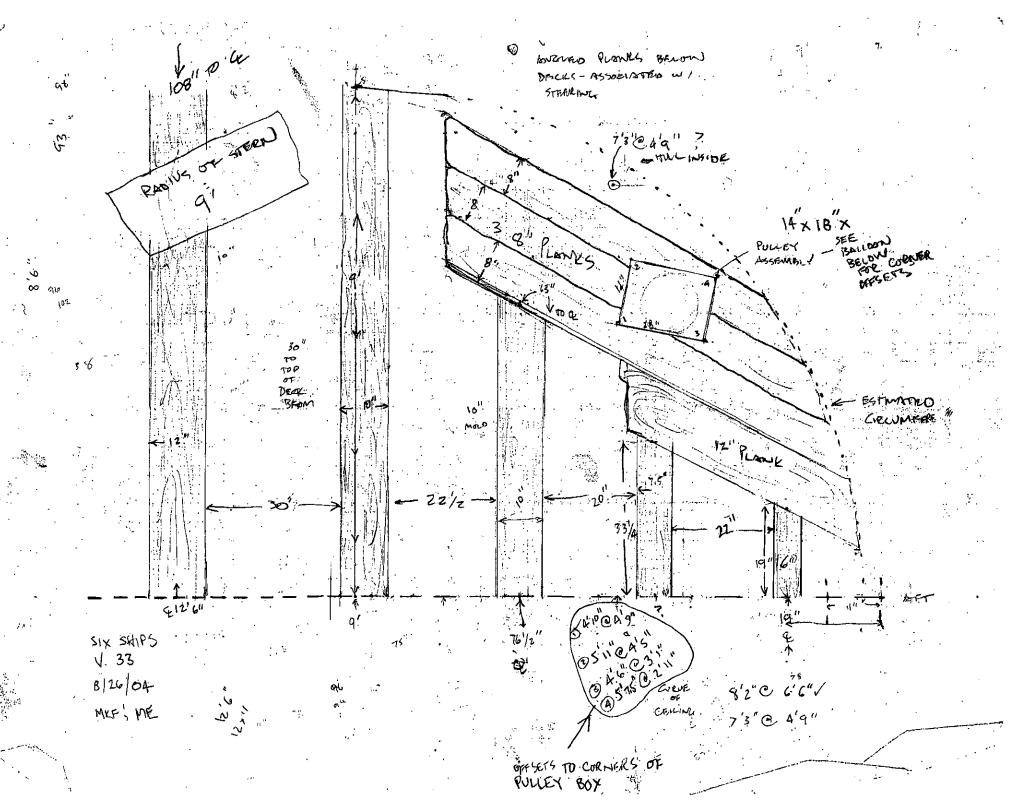
DEMIL RUDDER POST -> A

Russelle II. 83.

7 on & FRAM STEAM

AFT--->

Charo SIX SHIPS. VESSEL 33 8/24/04 8/23/04 ςζ. ME; MKF SCANTLINGS GROUMFERENIE. LOOKING STED 61/2 = A-B ٠٠. ور: PLATE 7×9.5"



STERN - DEPTHS

EFRON | GFFSET | DEPTHS

C9' - 25" STBD - 7'2" FORM FLOOR TO TOP OF DECK BEAM

PC9' LIWER FRAME TOP TO TOP OF DECK BEAM 31"

C7' - 25" STBD + 7'1"

C5' - 25" STBD + 7'1"

C5' - 25" STBD | 6'6" FROM FROM FLOOR TO DECK BEAM

C3' - 25" STBD | 6'7" "

STEFRING FRMES TO DECK FRAMES - BLEVOTIONS - FOP TO TOP

FROM STEEM 1 .33.

2 30-30.5

3 27/2

4 29/2

5 26/2

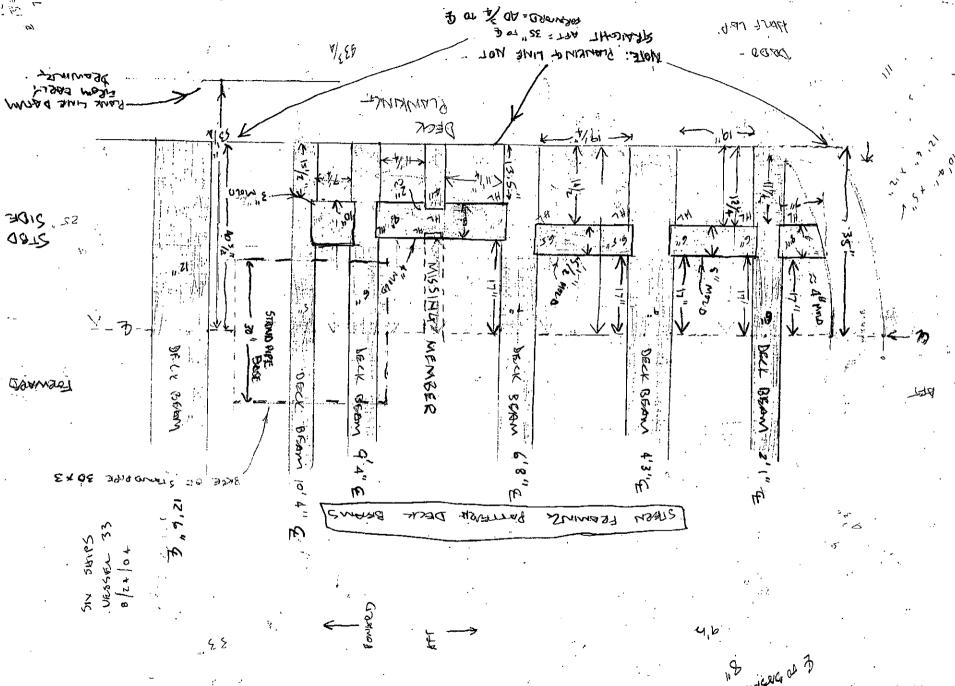
SIX 5 \$18.5 VEX 46A 33 8/20/04 ME 5 ME

DEPTH TO KOUR MEASURES

MESURE FLOW STERY \ STEET Starboard V6'3" 91/21noutside edge of Steering Deck 62 in inboard 11 15" 63 69/2/11 inboard edge of steering Planking at 7/10/1 (99:n outboard corner of steering DECK 9st Timber under Frame 66 (#4) 64:n 1st Deck Beam <18→ 1/4? Prusol 51/4 ? ProfilE JESSEL 33 8 26 04 MKF', ME STEERING MECH PLETFORM SCAHILIHES

202 226 31/2 71/8 10 3/4 12 1/2 17 3/4 21 1/4 24 3/4 33/4 71/2 3 /2 7 /2 10 1/16 11 14 18
118
219/10
25/10
25/10
28/2
31 EDGRE
DAVIS
PLATE 14 17 9/14 21 /4 24 3/1 28 /4 28 1/4 31 %; 35 ¼ 30 1/2 EDGE OF DEJIT PLOTE :} 38/2 41 45 3/4 48 1/4 52 EOW

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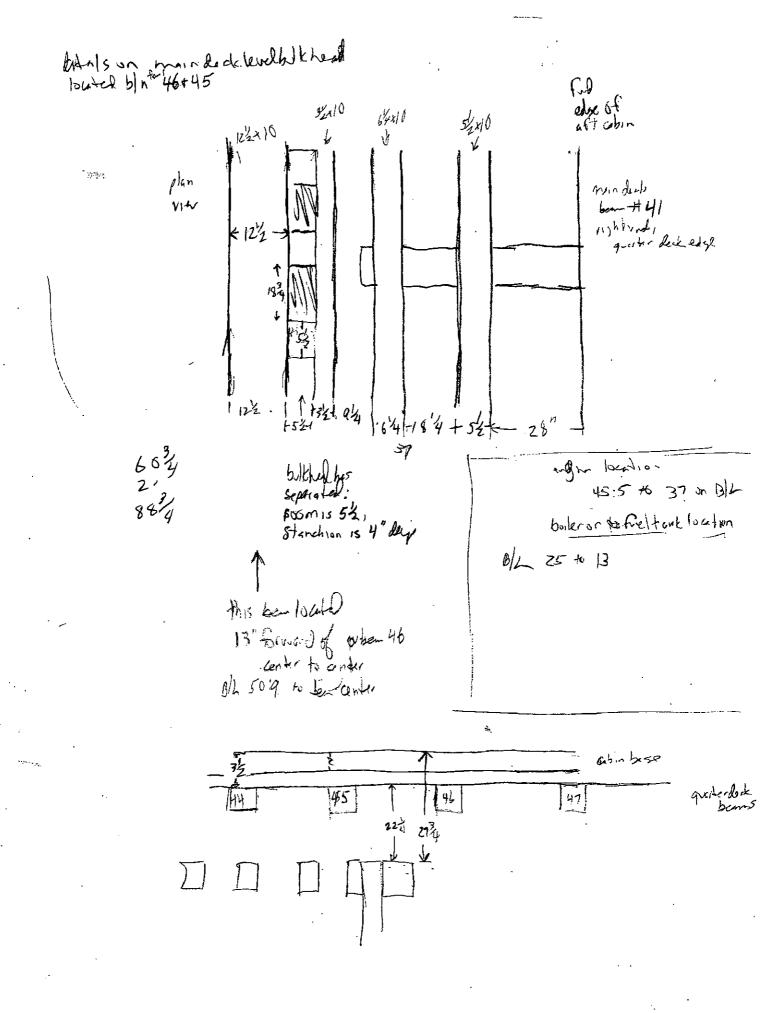


21 wark\_ --1/1n --> 54212 1246in 6et6 in 9++3:1 10 10'5" 40311 8 ++ I.C SEANE BLOCKING K-9in= 760-Sin Hin NOTE: PLANK CHUR EROM PLANK LINE 24 3/2 3/2 3 1/2 7/8 3½ CURUMY TOWAR 7 7 7/9 STERN 105/8 14/8 8/20 PLANDEINES Iron Plate 50/4 52in W W

& FRAME - PATTER STERN AREA PLANICS = "31/4 x 3/2" 55 ° ان الا 107" 128 /2 PLATE BASE YPLANK LIME 50" 31/2 3.3 31/2 31/4 7/2 11/4 7% 7 1/4 11 % 10 % 10 7/8 ROISED 14 1/2 14 5/8 14 1/8 14 5/8 POTTION 18 /16 18 1/2 17 3/4 181/4 21 /2 MEYAL 21 34. 21 1/6 213/4 PLATE 29 5/8 25 1/4 50 24 3/4 25/4. 28 3/4 28 1/4 ... 22 1/4 32 32 3/6 35 34 \* 30 1/8 - EDGE 32 3/16 35 5/8 35 1/8 . 39 DENT 39 1/4 == 42/2 39 /4 AC 49 3/8 AZ 3/4 42 xx 46 1/4 46/4 51 7/8 EDYV 50 -52 3/8 49/4 pres may 52 EOW (EOW)

Deck plan

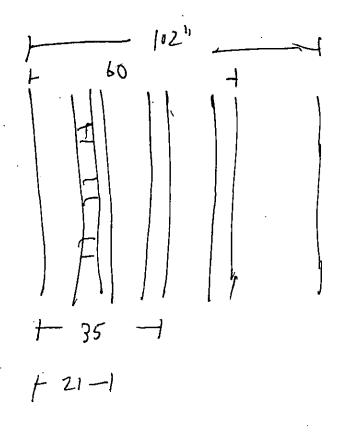
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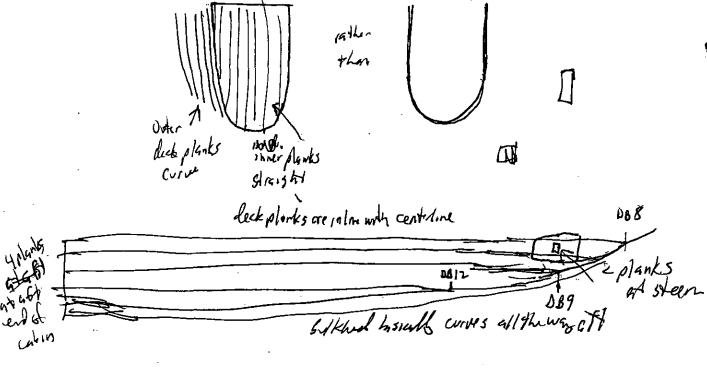


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UESSEL 33
             ME! MKF
              DECK BEAM - CL
             1. 138 3"
                                 21 96 11
                                 22.94 11
             2. 136
             3. 133'5.5"
                                 23.92'6"
                                 24, 90 8"
             4- 131 2"
             5 129 3"
                                 25 88'10'
                                    87'1"
                                 26
                125'1"
                                 27. 84'8"
             B 123 1"
                                  28 82 10"
             9 121/1"
                                  29 80' 10"
                                     78'10"
             10 119'1"
                                  30
                                     76'11"
                                  31
          →11 117" 31 PLANKS
                                  32 74'8"
HOUDES BEE -
KATSKE BRIGH
                                  33 72/11"
             12 115 151
                                  34 70'11"
             13 M3' 15"
                                  35 68'
             14.110 7"
                                  36 67' 2"
                                  3765'2"
             15.108 1" 32 PLONES
                                  38 63' 1"
             16. 106 8"
                                  39 61 2"
                                  40 596"
             17 104 8"
                                A41 59'0" 15+
             18 151'8"
                                  4257011
             19 100 8"
```

20 98'8"

33.

S1X S#1P5 8/23/04

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4 OF DELL BERMS
      FARTWERE
                 PRTTERRILL
                  46 49/6/1
                   47 47 18/1
                   48 45/611
                   49 43'6"
                   5041/811 - 15 PLONES DEA
                   51 39'5"
                   52 37 5" .
          34 PLONES
                   53 35 11
                   54 33'0"
                   55 31'4"
                   56 29/51
                                  BY METTE PLATE
                   58
                   59.
                   60 21/911
                   61 19'8"
                   62 17'3"
                   63 15111
                   64 12711 -Stern Section-
                   65 10/6/1
                   66 91 4"
                   6781
                   6861711
                   694/3"
                    70211
             BECM ON FORE END OF QUARTER DECX/15
43 551"
               * DECK BEAM Q
44 53'5"
                 PANTEND ORDIVENTE
45 518"
```

6" monorio no svor DECK BEAM @ 11

Below Deck framing

Faverd Cobin Erinki) Sandack Plany Will Sept 18th Estary Day deckbern 6 Is a beam 7 2 metalien is board Ableborof Zek of elise of hole deck ben 13 blocks bla Bens aponswheelhouse

Ludecker

Athrait Shos bulkhand at & dick ben 18

Santhos

bilkhulpplacks

72"x 2"

bilkhulstanchions

biz x 6

bidiwent

biz Cong.

bulkhedet chor rovant
spare veries. Nine
stanctions, including
ones the did to consider
of versel

27

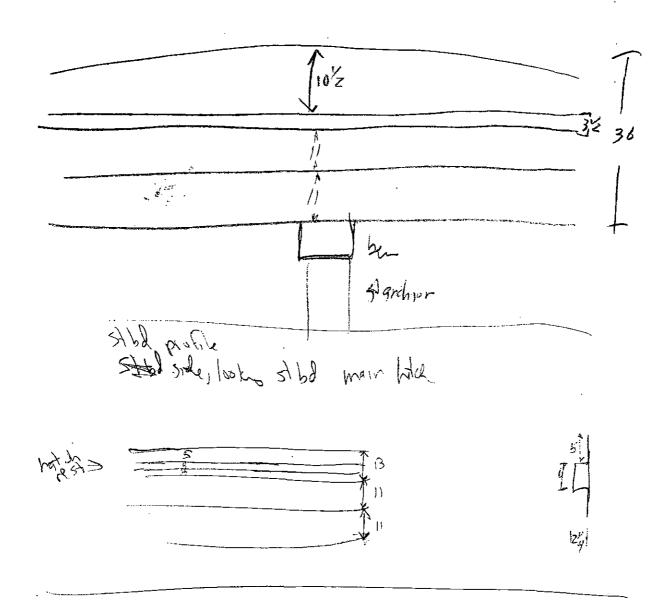
Starts at belled benefit runn and to

forward edge of man hald

but but but but benefit should be should b

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min hotch every dibe! all soft of find and, feen bow



groon

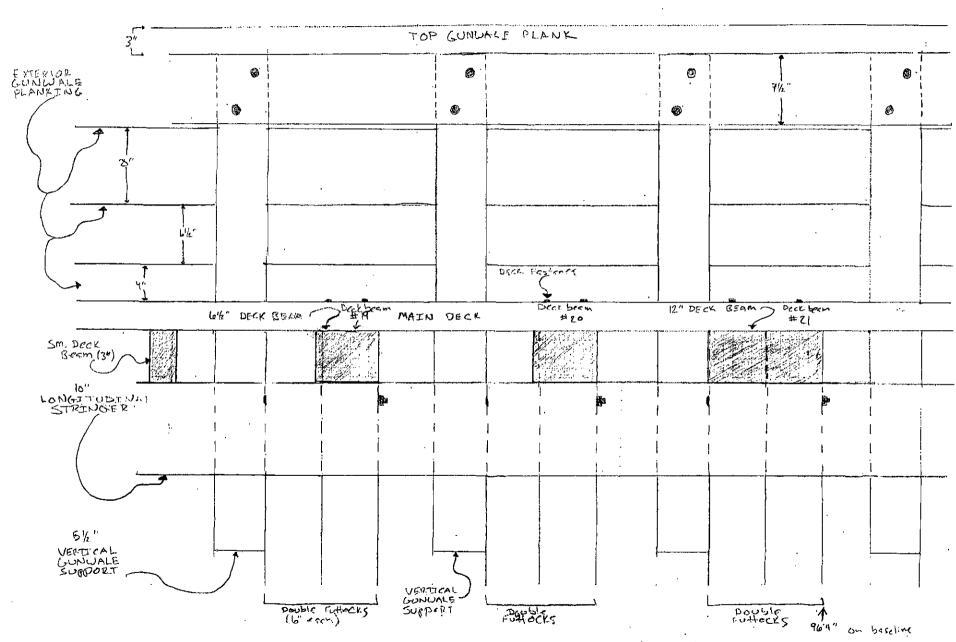
model

hensity true at Deck box 30 31

breised from treatimb

clamp soulls

SWA 10x10.

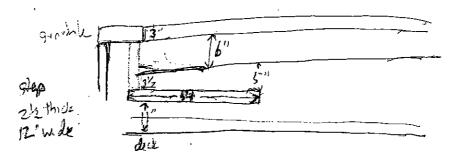


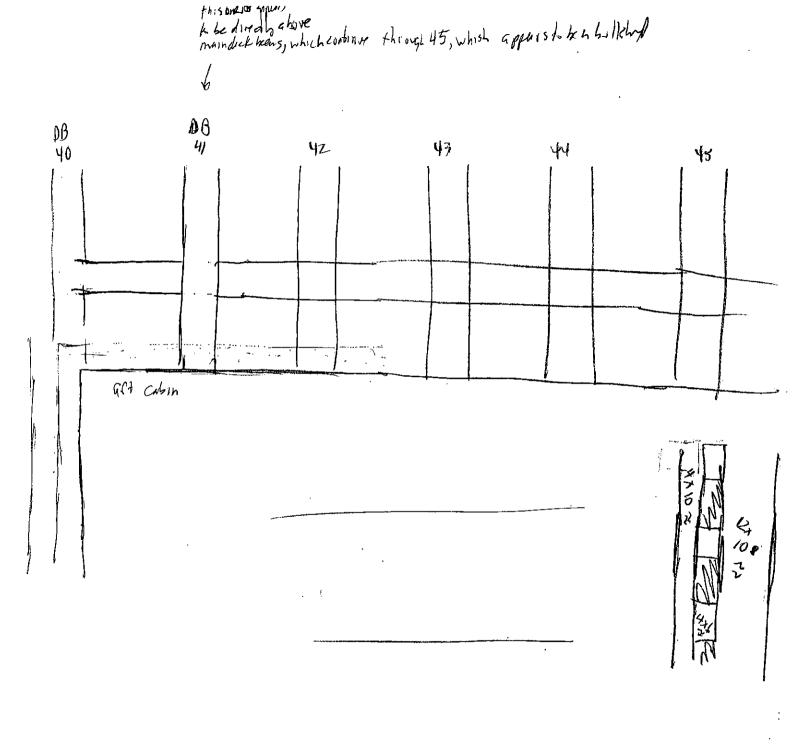
1 inch = 1 Square

3 20-04

4" molled 6" 5) led

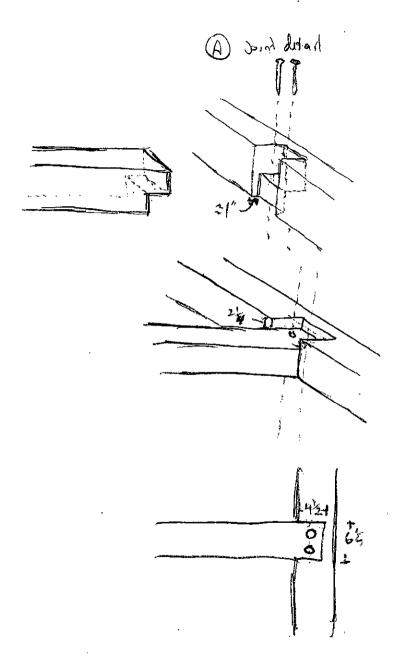
quaterdate plants
3/2 sited

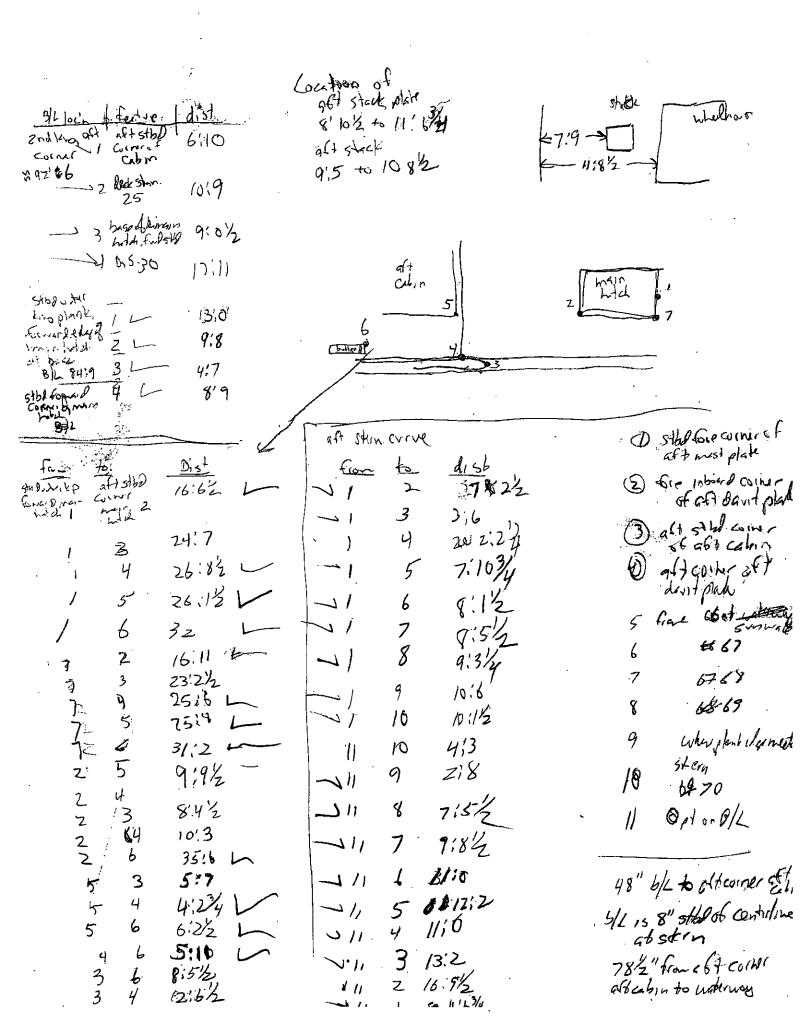


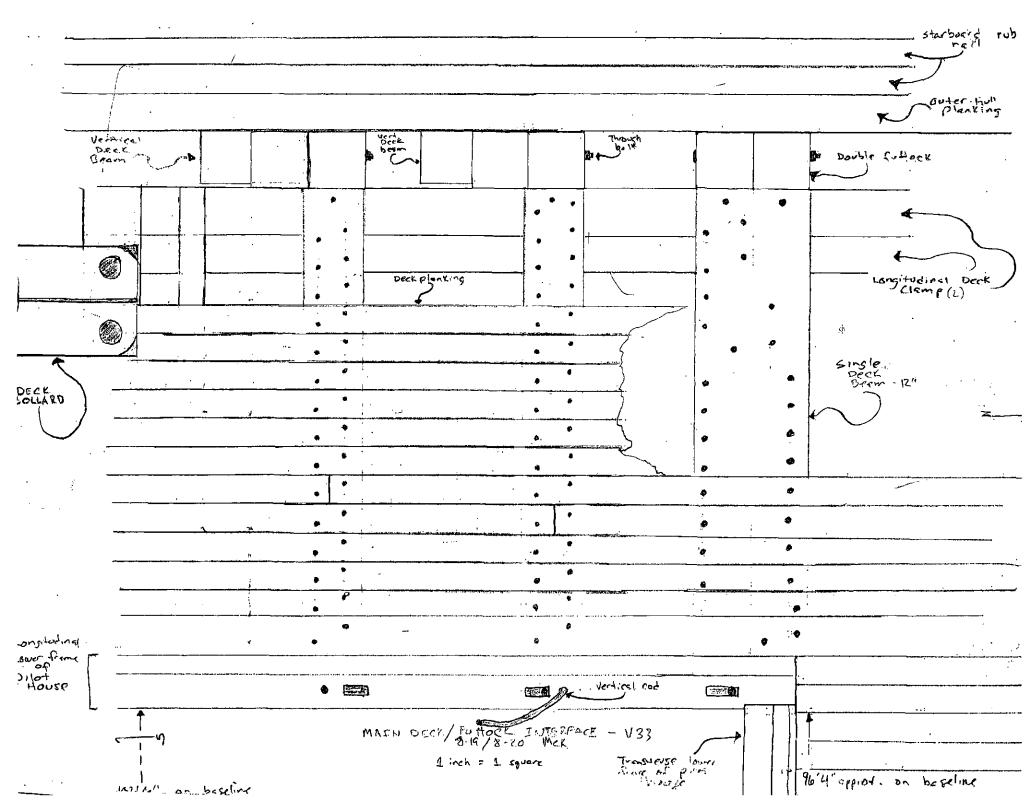


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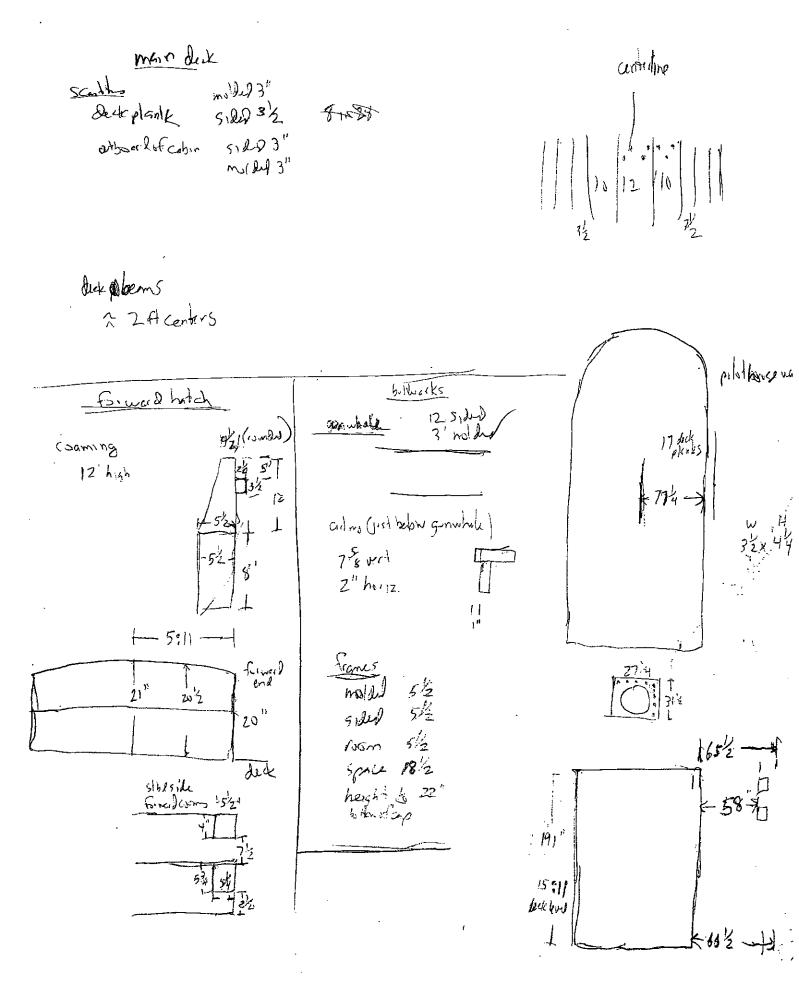
Bohn grader dech detail 9m 50 Dier nem 12×7 favoired ex shelf (man det shif immade the below) Star 64 - main dick ben 51 49 maid dikshlf 12 the rod though hullgorthals to K 184 19" 30 Z8 K19" 阳 gvo.tvdet bem 72x8 w d 0X8 196 profile K Sidel he of grate Just lend que by deliber 56 54 57 57 52 quoin deck somp both bems early Floensin 55 Maje 10 main but shelf don't must to this ben threis & similar zavorsant 127 SUAPORT 18/2 sided, 2 pes mulded 4 90 Z" total 5"





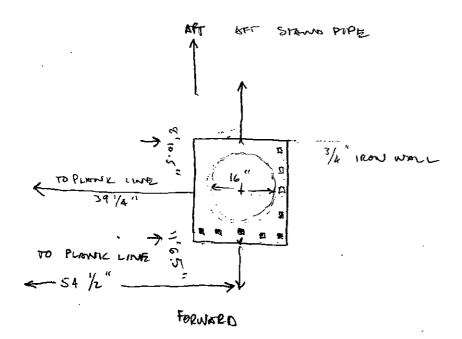


this beam up indicated the state of the stat



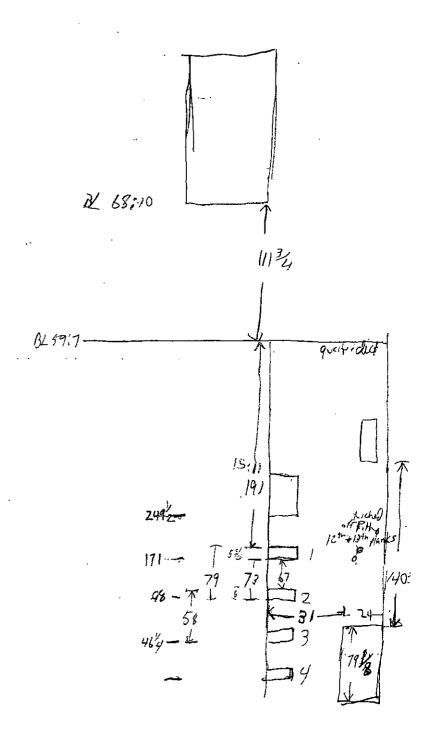
(MANHADEN TRANLES) 3-19.04 MCK Located on Starboard side of V33 MAIN DECL MAEN DECK 1 square = 2 inch

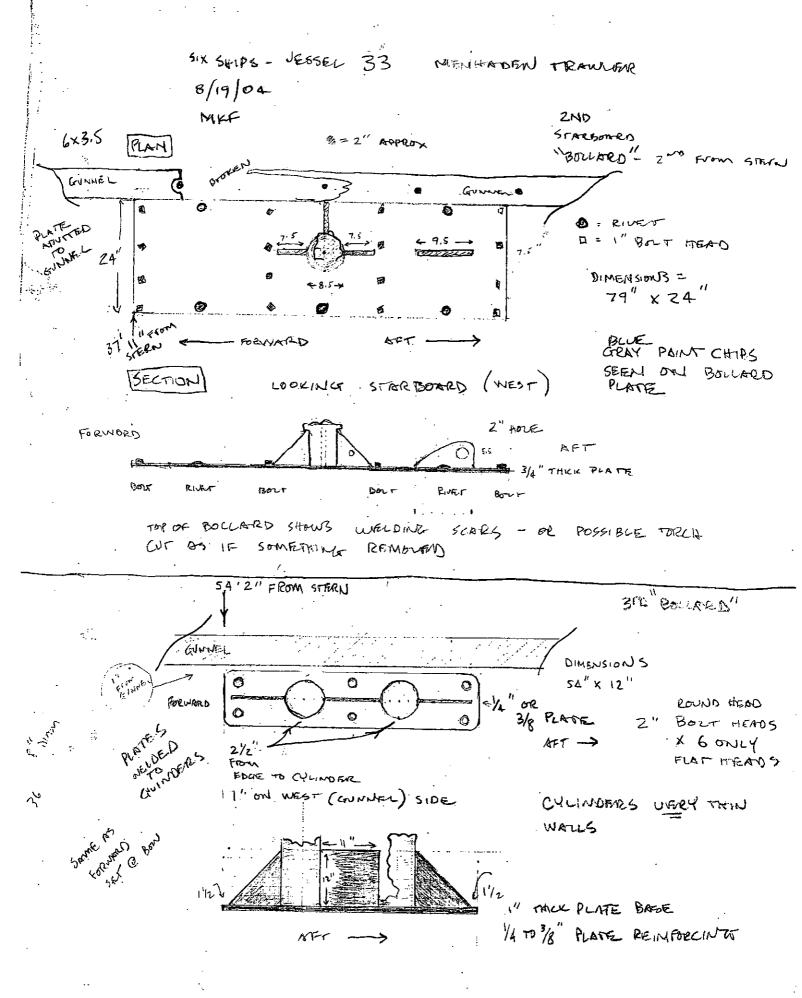
DECK BOLLARD -VESSEL 33



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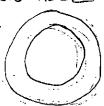
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131X VESSELS - VESSEL # 3.3 - MENHODEN TRAVLER 8/19/04 MKF

CIEWLAR MAN HOLE



26 /2" OVERAL 20 /2" OPENING

SIX DESSELS 8/18/2004 MKF UBSSEL# 33 (MENHADEN TRAWLER)

STARBOARD DECK PLATES X 4 PLUS

6" x 22" -2 BOUT POTTERN 31 10" FOGRED MET MEDEURING FROM AFT MOST FORWARD 10 FORWORD 3" La .48/z 173/2 176/2 101 EDGE 22" 420 SKETCH OF METER PLATES ON STBD SKETCH ROUND HEAD LARGE PLANE GUNNEL AFT 50 \$ 50 "LOOP " ALL RAGFENTILS I' SQUERE FORWOOD HEAD EXCEPT SOUTHWEST CORNER VERY OXIDISEND 27 1 STEEN

	eck plan	offers mu	sielten Eknoplarks			129.6 ter objective plant mee
BL	Ledve	offset	BL	Fedure	offect.	139:6 - ter pladick plank mee longiful mil knydick plank 140:6 maerto
140.6	stem. Sem	0	13)	Sem	1 /8 5 /8	
138	Seam	51/2	-		9	1st Kins post
	Sem	93			13 <sup>3</sup> / <sub>4</sub>	135:8 135:8
,	1)	<u>                                      </u>			182	
	11 Clack	14j 234j			25 % 28 %	19
138	bilueik	<b>39y</b>			32 4	134.3 (35:7
136		1 <sup>2</sup> 4 5 <sup>7</sup> 4			35	B/2 Edys offset
		9 '			42 1	64/2
		123/8			49	52.74
		16 192			52/4	92' 129 PW 95'3
		26			11/2	127 : Sam 43/1 wid
136	billwalk	332 45		1.1	82	10/4
134	Sew	2/2	131	Southbull	WIK 461/2	141/8
	].	6 a/s	129		4 5%	177/8 hon. 213/4
		13%			8 %	
		134 164 2036 24 272			16	26 <i>78</i> 3 <i>5 %</i>
	\	24			1934	'41 44 <i>%</i>
		31			25 9/8 31 1/8	47 %
		34/4 43		•	31 % 34/2 38 4 4/4	5/ 51/2
		5434			38 4 <sup>1</sup> / <sub>4</sub>	573/
134	b-1 wiel)4	31 344 43 544 65/1			441/2 48	6074 64
٠ .	1 1 12				51/2	67/4 70 /2
					5 <i>174</i> 58 61	253/4 263/8 353/8 41/4 41/4 51/4 601/4 67/4 67/4 67/4 820 820 820
					. 61	Sem 99

BL Sertine offect 125 Sem 3/2 7 10/2 14 17/2 5/1/2 5/1/2 125 Sean 29	123 billed 4934 Sem 50/2 Gin 59:14 51/2 See 563/4 593/4 627/8 66 69/4	hear metre a ism 1.1kherdin  stad 121:5½ cabin 21/2"the
325/8 36/2 41/4 491/8 53/2 59/8 63 694	72/4 75/2 78 98 81 3/4 85 89 95 100 3/4 105 3/4	120:9  120:9  120:9  121 Sens 73/2 Bd. Edice offse  77 73;  793/4 76;  823/8 79;  86 827  89 86
72/4 75/2 78/2 81/3/4 89/2 96/2 1023/4 123 Sem 105/4 123 Sem 3/2 7	121 82 7 121 92 102 14 172 21 24 8 28 14 28 14	92% 983/8 103 600/4 100/4
10/2 14 17/8 21/8 243/4 12/8/4 31/3/4 35/4 35/4 42/2	35/8 383/4 421/4 493/4 613/4 64/2 64/2 67/2	24/2 28 31/2 35 38/2 42 45/2 45/2 45/2 45/2 41/2 60/2 41/2 47/2 47/2

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BL tento offsul 115 sem 7/4	BL Fedire offsold 113 County 26/4 29	5/1 Satures 5/2 ful ord 113 /2 ful ord 113
10½ 14 17½ 21½	by Khil 59 hilkhil 65	hatch ad 113 hatch add afterconstruction
24 1/4 28 1/4 31 1/8 35 1/4	107 bilked 601/2 11 63/4 11 65/2	3. fit every by two deck tains 2nd stack  I deck beins
38.7/8 42.3/8 45.7/8 49.1/8	bolled 94/2	92:6 95:2 molled 10 92:6 95:2 Siled 6 93:1 94:6 Bixel book hils,
56 1/2 61/4 61/4 61/4	97 Hour 61/2 41kh 65 9	BIL fedure offer at 98. brons/L 20:8 desCHo 25/4 ]
20 71/4 74/8 77/8	97 113/2 92:6 dukft 26 7 92:6 dukft 34	524] Bla bluck/11/2 9/4 sthell corner of the polish  8:10 decks of 24/4  32/
8014 8314 8614 89 78	dick(Ho 20/2	84.3 mgin 543/4 25 25 25 25 25 25 25 25 25 25 25 25 25
92½ 95½ 98½ 101½	deckhold 80/2  About 181/2  else 154/n	84:8/2
105/1 1083/1 117 1133/1	12 92+94 92:16 bitwelk 111/2	3/2 3/2 3/2 3/2 3/2 3/2 5/4

Deck plank Scalpor 14 deck planks from als abon A thin plant Soft ginuale 17:7% forward elged fired hild 55 to edge of coams 113 to simual att eds offed hold for calm includes 55 5.2 to dy of conny 58 for warms to growing 9/2 15 on elge of mildle Know plant Salve offset BL edge of 59:7 #A:0 Coice Sem <u> المعطرسية عنه n g</u> \$6,00 Eddys Coemio, 5 6 3 CH 1 1 1 8 guay. July Cally Uset: 1051 A hilland 40 3/4 from Just de beller BL 9 must 54% from Esbin 3/2 <u>5</u>55 SPAN oftreky from place 10 2 nisid billed 41 \$4/4 Q 74120 2 ockplate 1 22 2 43.10 Q-B-() Simuale 55 O10-0 41:8 by jumplants 5,7,9,72 July 10,101 plak 39:6 1/10 38 gravita 55 20

3/2 Stak -3

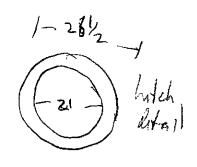
Stack 15

Week 110 bluerk

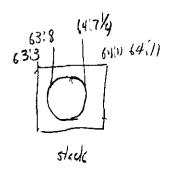
Will 7334

hadropmo 7674

100/2



68:10 edged Corming hat d



910141dek 59:7 Ginal 58:62 59:04:59:7

aft sold cabing should that

54 /4 aft cabin us 11 to B/L

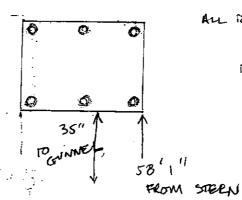
SIK VESSELS - VESSEL # 33 8/19/04 MKE

26/2 × 19/2

SMALL PLATE

1/2" THICK STOCK

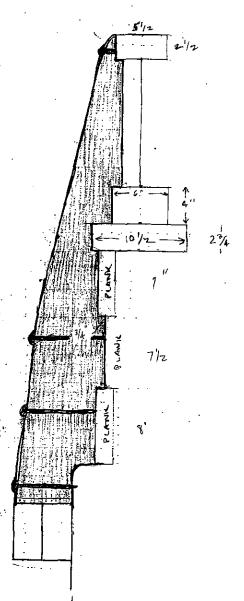
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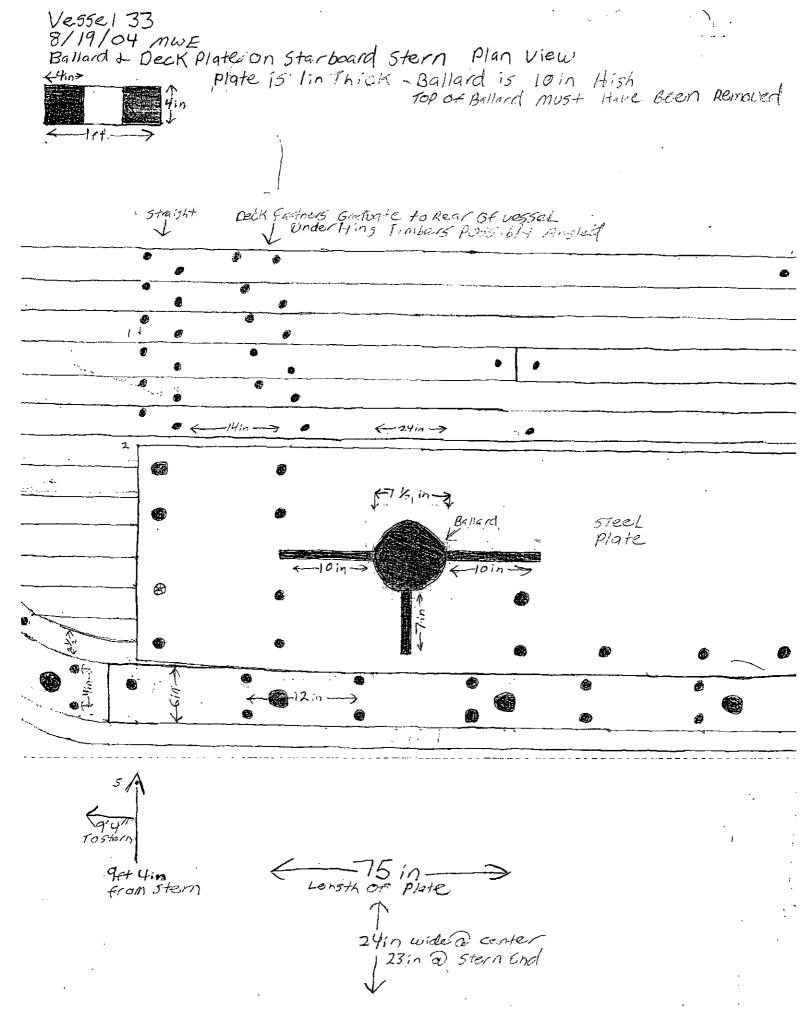
SIX VERSELS
UEBSEL 33
B/20/04
MKF & ME





LOS BUIL





3			
for	\$	disp	
1	3	N. 1.5	distries musual
1	4	22:3	from ato all Fore
΄(	5	3610	Inboard Colner
J	6	35:10	of stanchion
,	7	42',0	
)	8	张 12	
)	2	46:6	
2	ユ ラ	11:04 6:1134	
2	7	12:134	
2	. 5	17:734	
2	8	11:614	
2	4	25!5	
Z	3	31:33/4	
		,	

O fine of the cour of all cibin

@ aft stbl come aft whin

stachion

5tbd. Side of Aff Cabin Beam 6" Sided
11" molded
sits on top of 2nd
notch is 134" Deep

B/L Ben 138

27 bours to follow of

End with

35 bounds to all algorith

Frithistich

40 to grades look

48 to 1st small dent plate

51 to king dant plate

54 to aft and of kinge without must plake

68 to almost a for of resed

Deck com			subtract 1/2 and from offsed must
offset	vertical.		from s
311	4/2		add 1/4 to st to gunus i frame.
1:0	9		<i>(- , - , - , - - , - - - - - - - - - -</i>
11:33	94	Fu!!	
5	13/8"	·- 37	25 <sup>3</sup> /4 26"
7'	14 1/2"	=	26"
8'	14 1/2"	measurement to deck =	26"

7

Outer hall

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## Vessel 33 24 August 2004

853" on Baseline Vertical measurents to bottom of Hold

Distance 5to of £ £ = 10' 7" from bottom of Top Hatch combing timber 10" = 10' 11" 24"= 11' 6"

24 = 11 11 11/2"

49" = 10" 4"
57" 10' 1/2"

62" 10' 9"

At Find face of Deck Beam # 22 at 102"546 of & = 10' 10" from top of Deck Planks

> = 10' 0" " bottom of Deck Beam

53 3/4

At Fud Face of Deck Beam # 20 @ 107" 5th of & = 10' 13/4" top of Deck Planks = 9 4" Bottom of Deck Beams

At Aft face of Deck Beam # 21 130"5H of & Between Futtocks

= 82" top of Deck Planks

= 74" Bottom of Deck Beam 136"

= 613/4 top of Dech Planks

Bott of Deck Beam

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Vessel 33 24 Aug 2004 Vertical Measurements to Hull Interior/Ceiling
At Aft face of Deck Beam #20 (98'4" BL) @ 29" 5th of & (Hole in Deck)

= 11' 2" from top of Deck Plants
 >> = 9' II"
                   Bottom of Deck Beam
 Aft face of Deck Beam # 13 (112'8" B.L.) @ 46" stb of & (Deck Hatel) = 13' 0" from top of Deck Planks
     = 11'91/2" - Bottom of Deck Beam
Aft face of Deck Beam # B
= 10° Ø" Top of Deck Hanks
= 9' Ø" Bottom of Deck Bear
                                                       @ 68" stb of &
                   Bottom of Deck Beam
At Fuch fock of Deck Bean #14 (110'8" B.L.) @ 46" 5+6 of £
>= 13'2" from Top of Deck Planks
 = 12' pg Bottom of Deck Beam
   Fud face of Deck Beam # 14
                                                        @ 68" 5th of &
 = 9º11" from Top of Deck Planks
 = 9'3" Bottom of Deck Beam
                                                        @ 123" Stb of (£
 - At Fwd face of Dock Beam # 13
" > = 6'5" from top of Dock Planks
= 5'8" Bottom Deck Beam
 At Find face of Deck Beam #13
= 5'6" from top of Deck Planks
= 4'8" Bottom Deck Beam
                                                        @129" Stb of &
    At Find face of Deck Beam #13

= $\int \text{from Bottom of Deck Beam}$
                                                        @ 139" Stb of & Betw Futtocks
        Aft face of Deck Beam # 12
                                                        @ 112" 5tb of $
        6'3" from topol Deck Planks to Stringer
                   Bottom of Deck Bram
          5' 7"
                                                        @ 118" 5th & E
         - 4PA
           5'6" from top of Dock Planks
        4'9" Bottom of Deck Beam
    - Aft force of Deck Beow #5
                                                        @ 91" SIP of É
= 3'11" from top of Dock Planks
= 2'11" Bottom of Deek Beam
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## Vessel # 33 24 Aug 2004 Vertical Meas. to Hull Interior

At Fwd Face of Deck Beam # 7

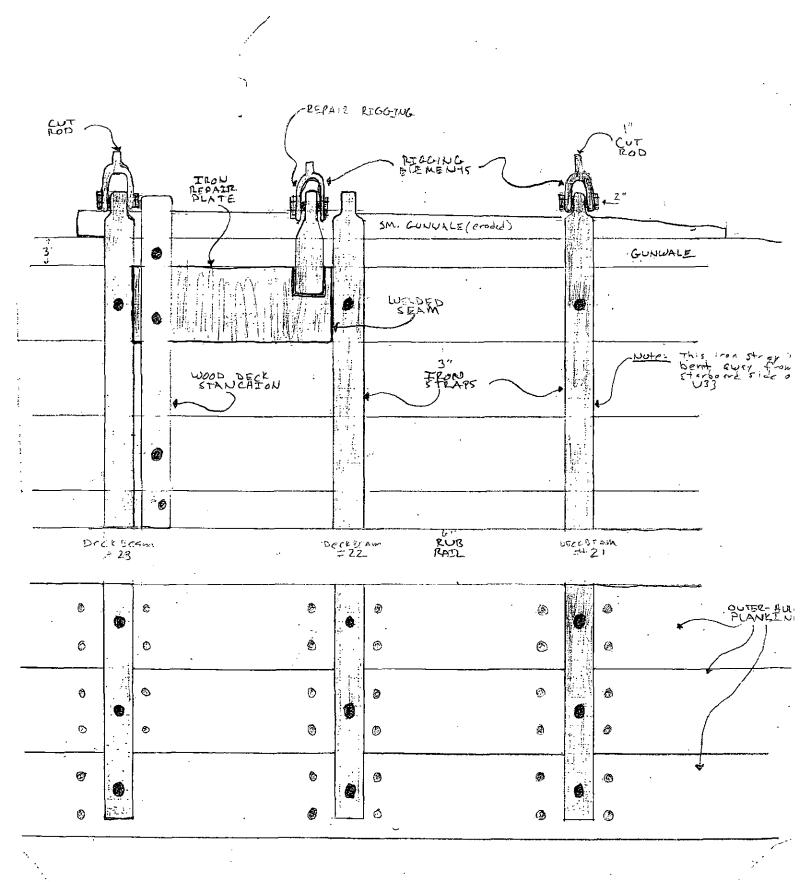
= 8'9" from top of Deck Planks

At Fwd Face of Deck Beam # 7

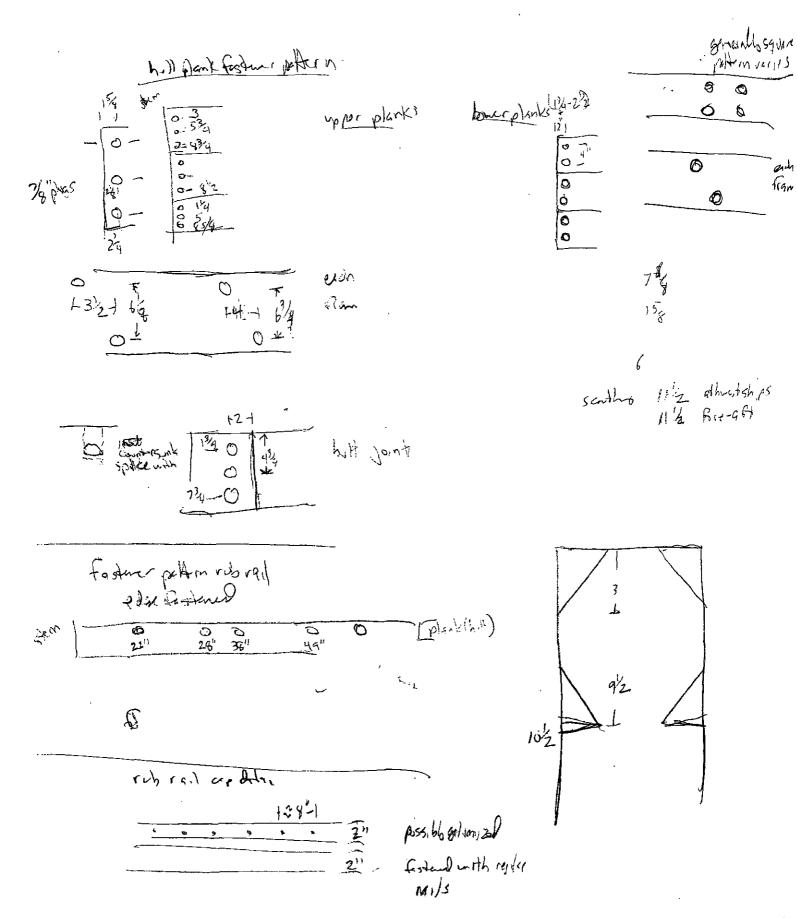
= 6'3" from top of Deck Planks

@ 46" Pout of &

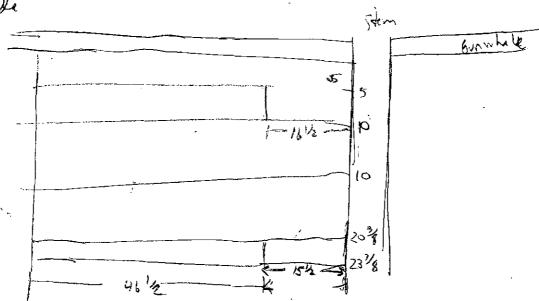
@ 63" Port of C



Lydules byisal v33 8/19/2004 . 60 Scalled Jed Ninch holds May well to 34 5,2d fee Sing 4 plans 1 6.14 10 3:10 gimble sap! 104 54 miles the hall plank 40P1 13019 (b) (a) flette Level, hill planks Survive taper into for 3" md DD over hill plant a signification 100 miles 0, bury hill places ३/ १०४०) **6** 134 out plank molded varies copper robra. 3/2 miled 3/2 51 led rub rail 2/2 siles 2 pre 30 5% millipfiant 54 enin , a not 27 bade



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SIX VESSELS UESSEL 33 (FISH HOWK) 8/20/04 LOOKING ERST - TOWORD POET MICH ME STISD RAIL DEPOIL BOZT AFFAH FORWARD (3 13/4 BFT 72" CAP BAL 1/2" DRIFTS DETENDANTA NETE - STANCHIONS 2' CENTERS AVERBUR GUNNE! TOP OF WHAVE WHALR Pursed . 31801K PLRWIK RUB ROLL FREST 2 NO EUB PAIL 6" X 3" WIDE X 2 = 6" TICK

REINFORCING SUPPORTS - STOR BORD SIDE HET SECTION

reom.

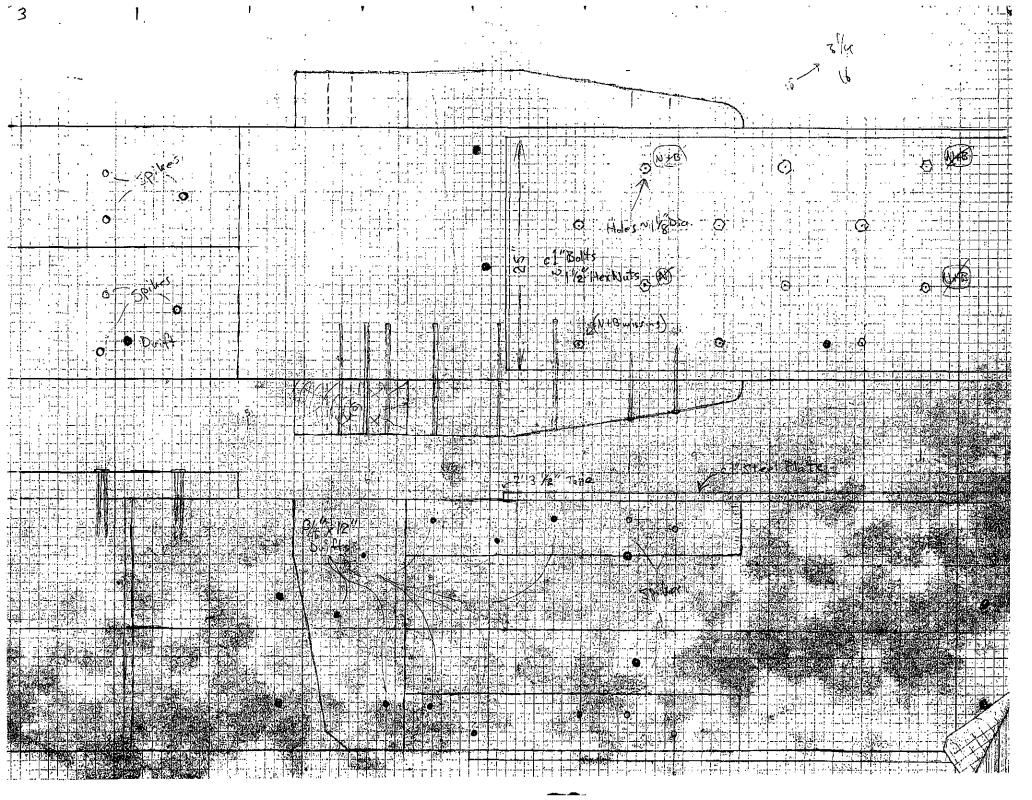
43 2" monor. 4: Ò 655 37' 2" LENTERS OF BUTTRESSES 29'2' 14FT 19/10" 23' Z" 26

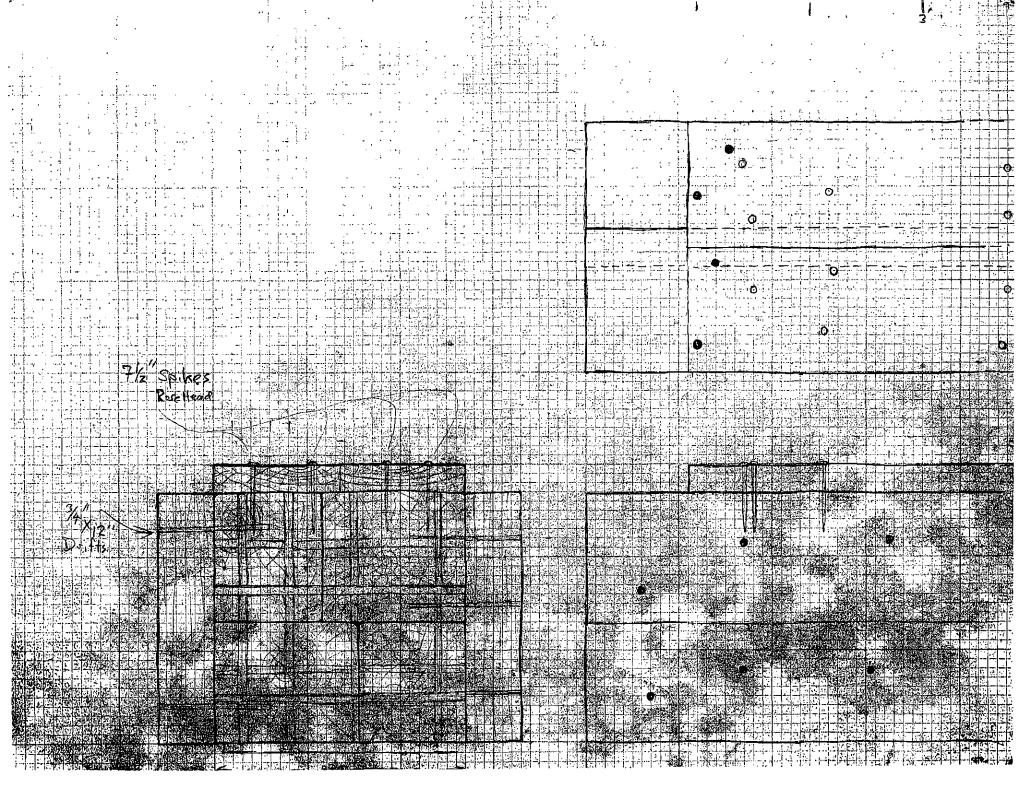
F 7/2" -1

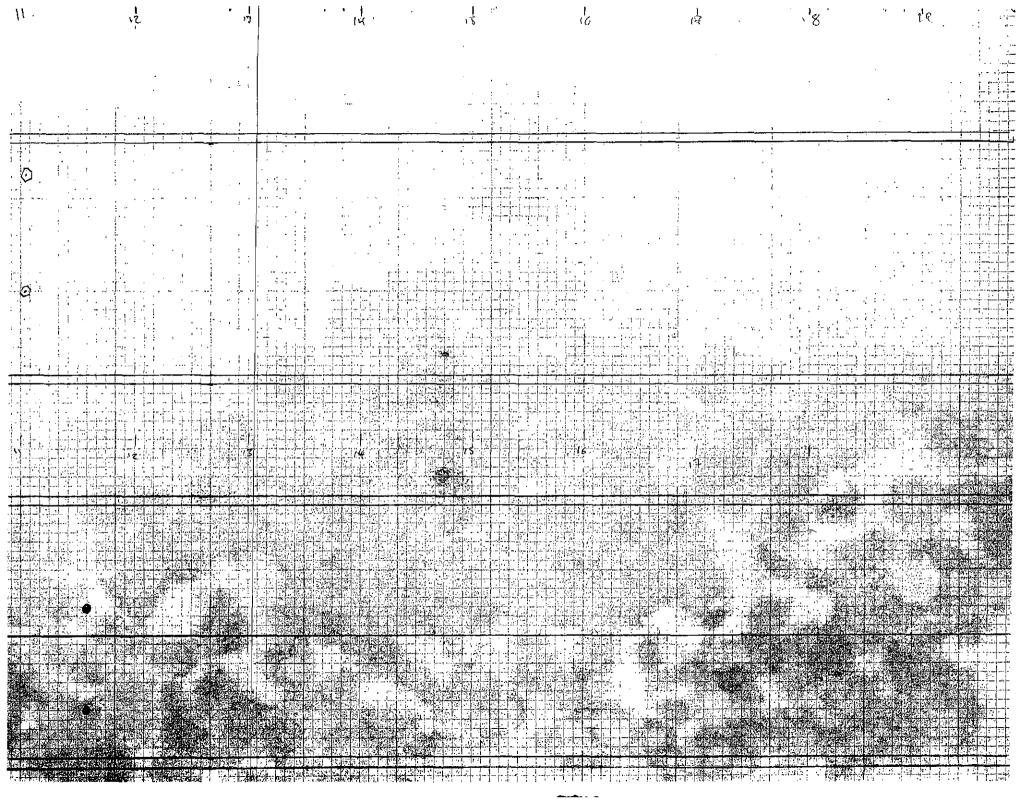
drillel, covatisms, no Estema ever linen

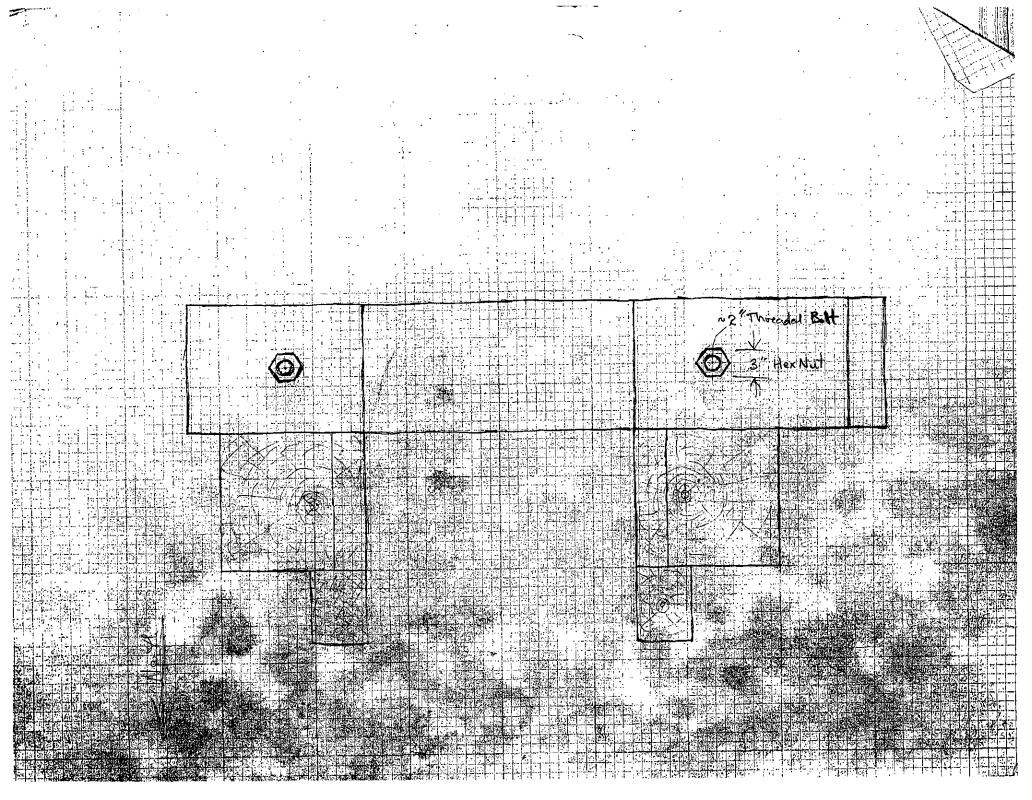
Co lick ben 36 inboard side of Survivale

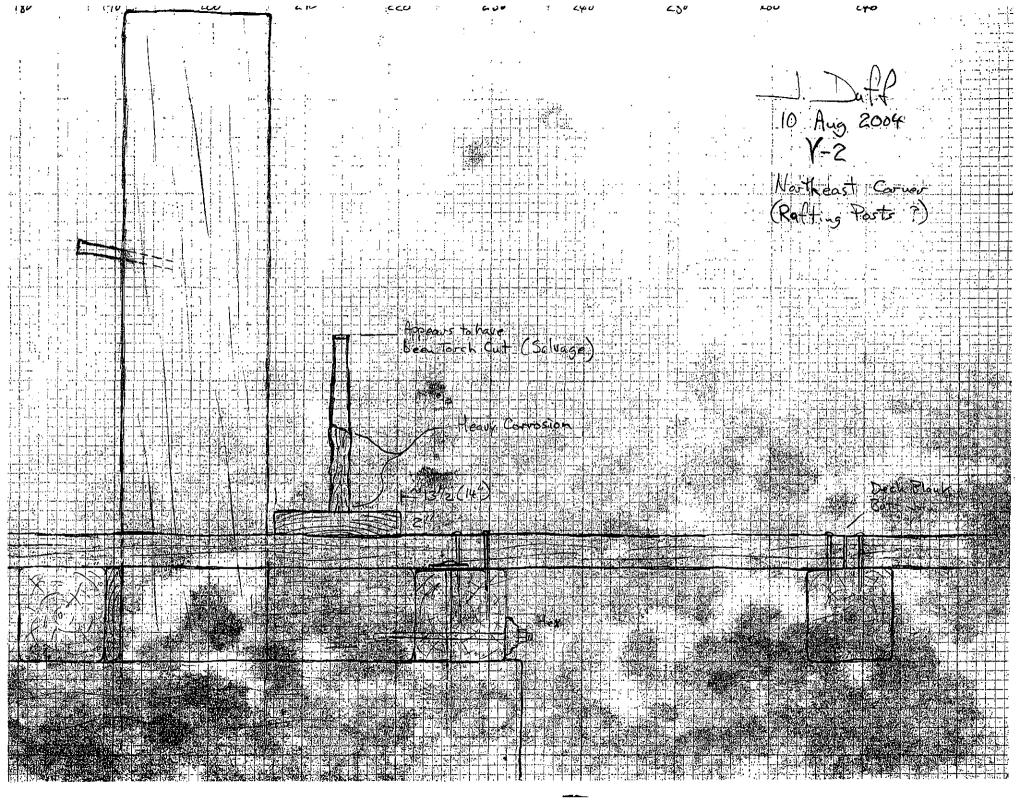
1 13 threated 110岁十

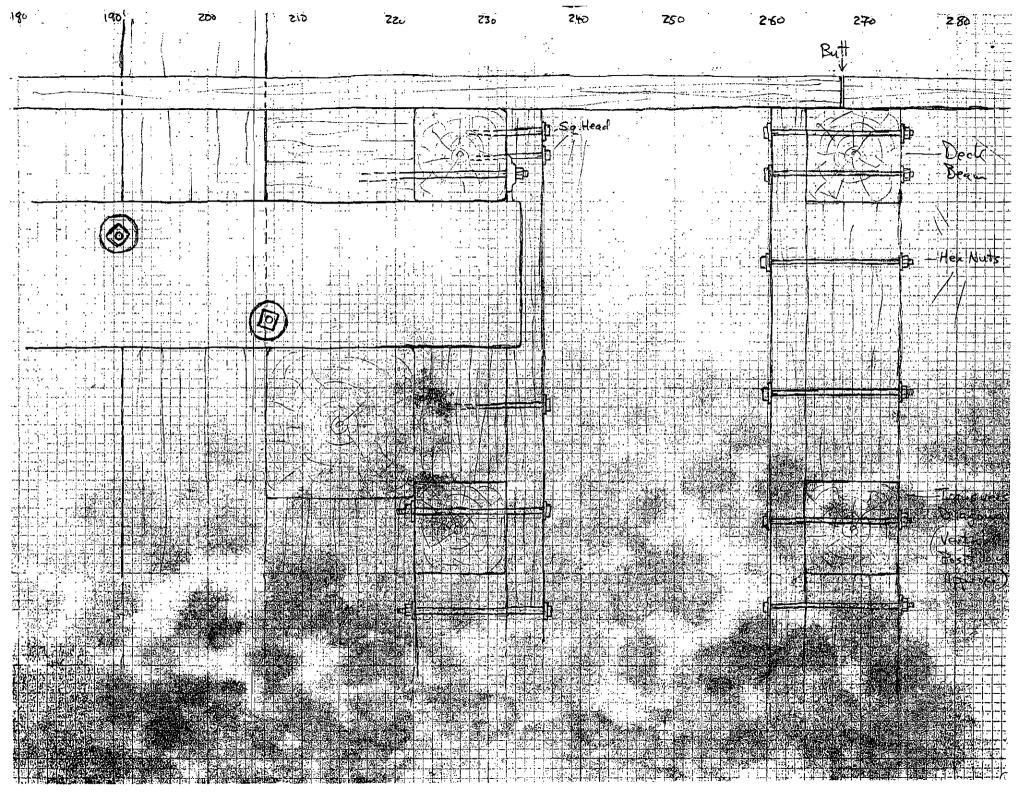


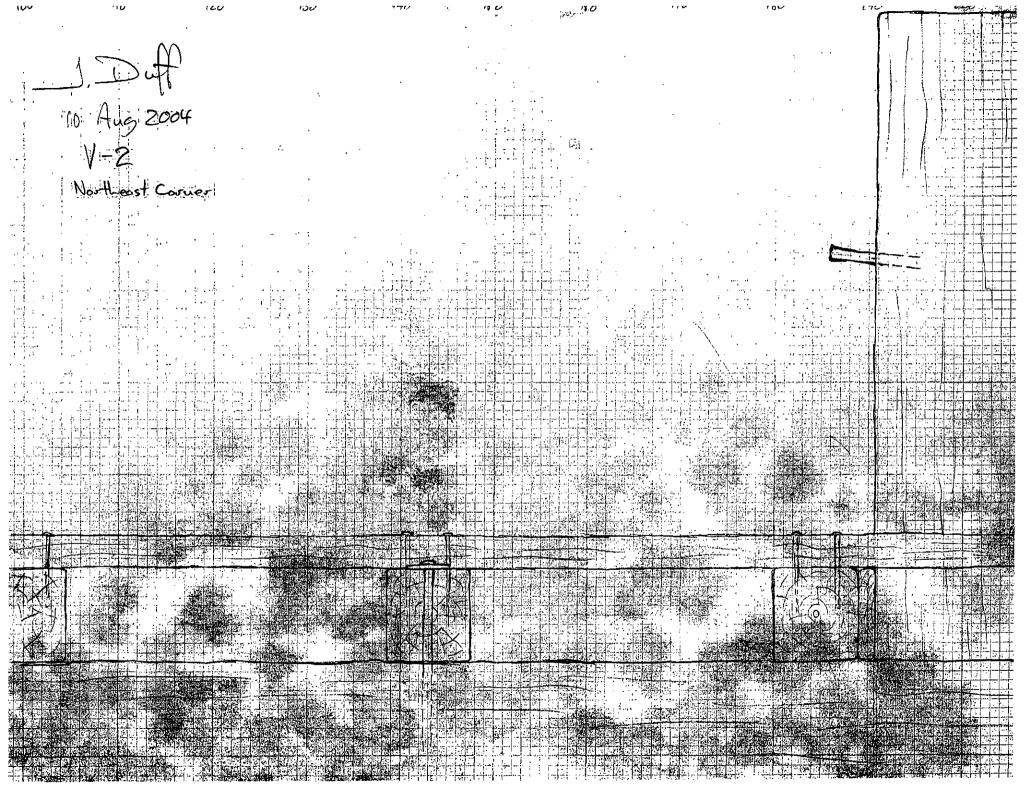


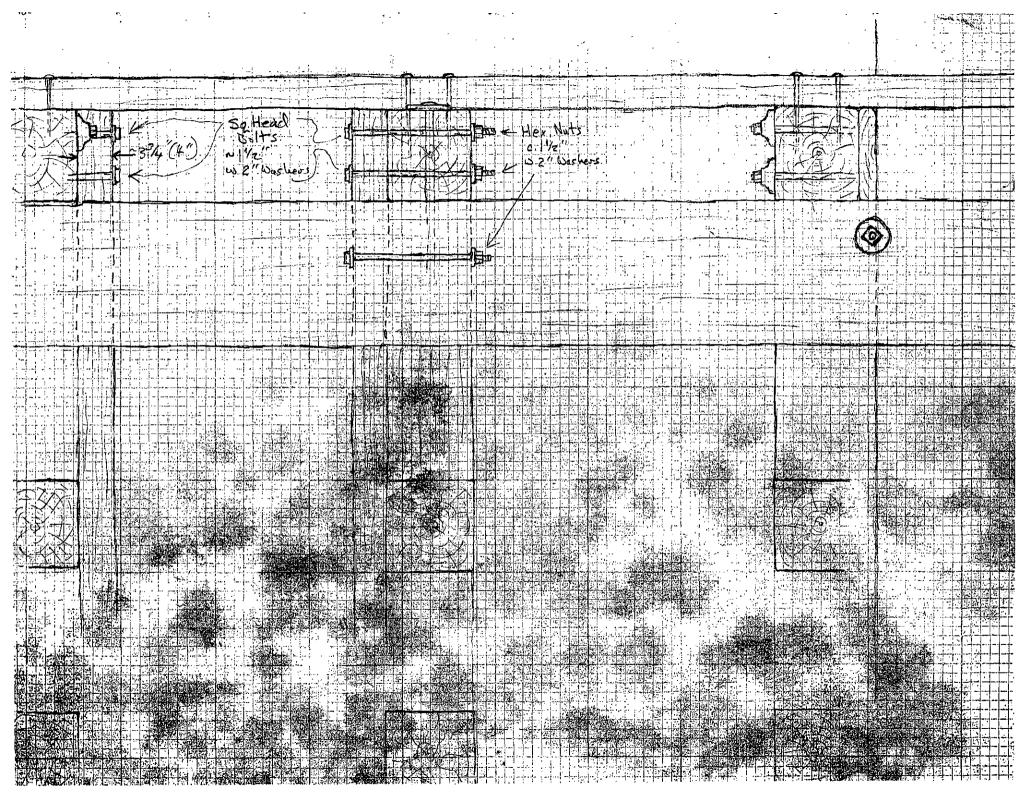


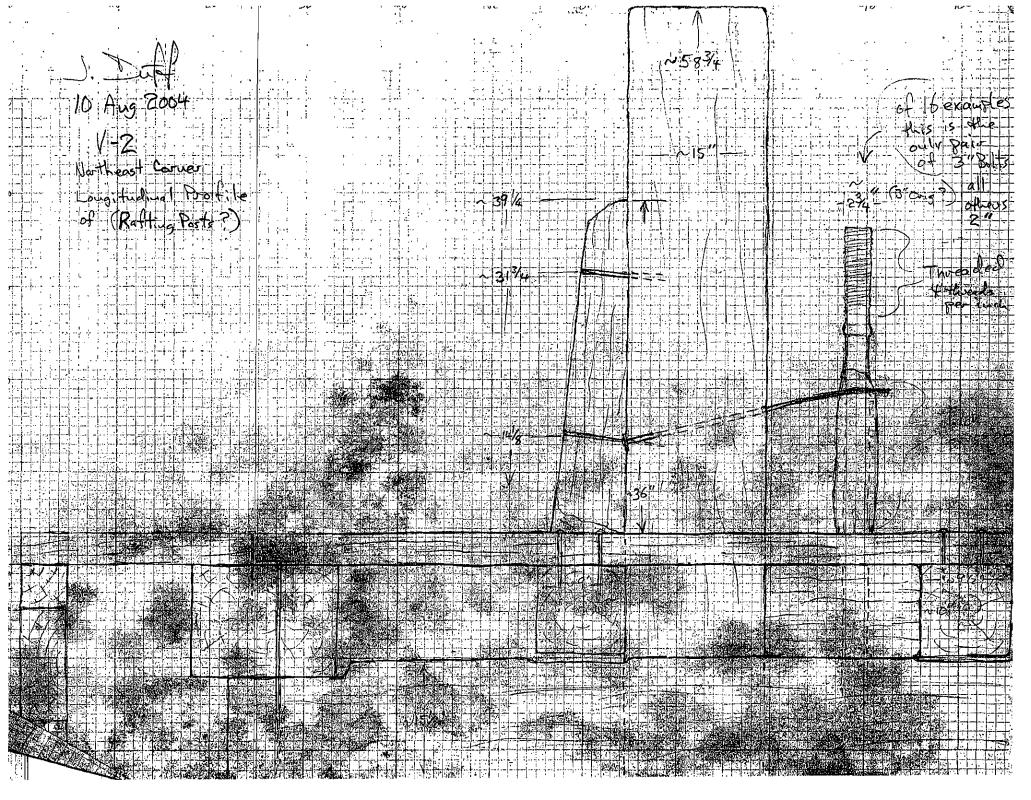


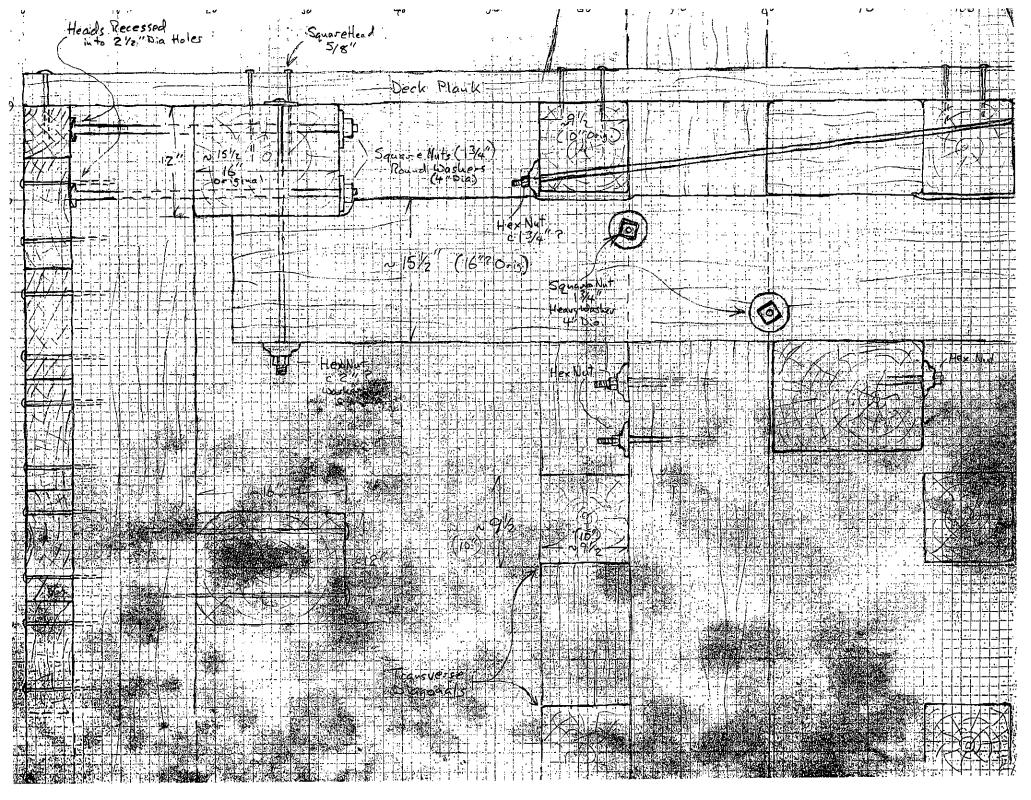


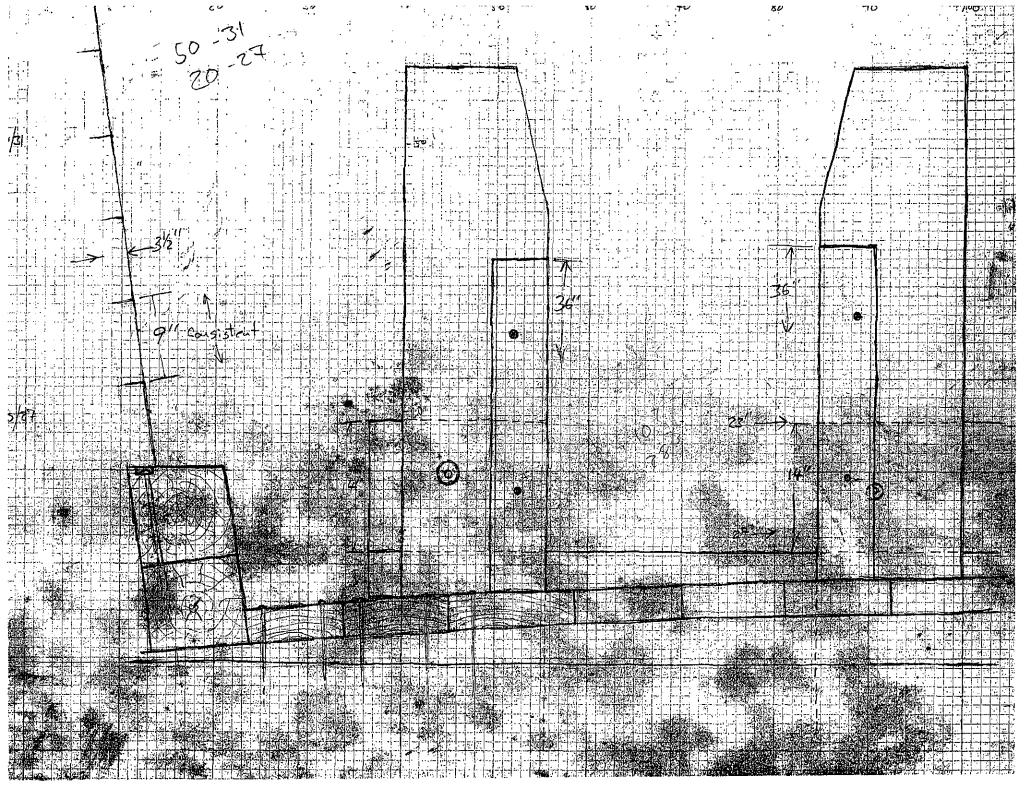


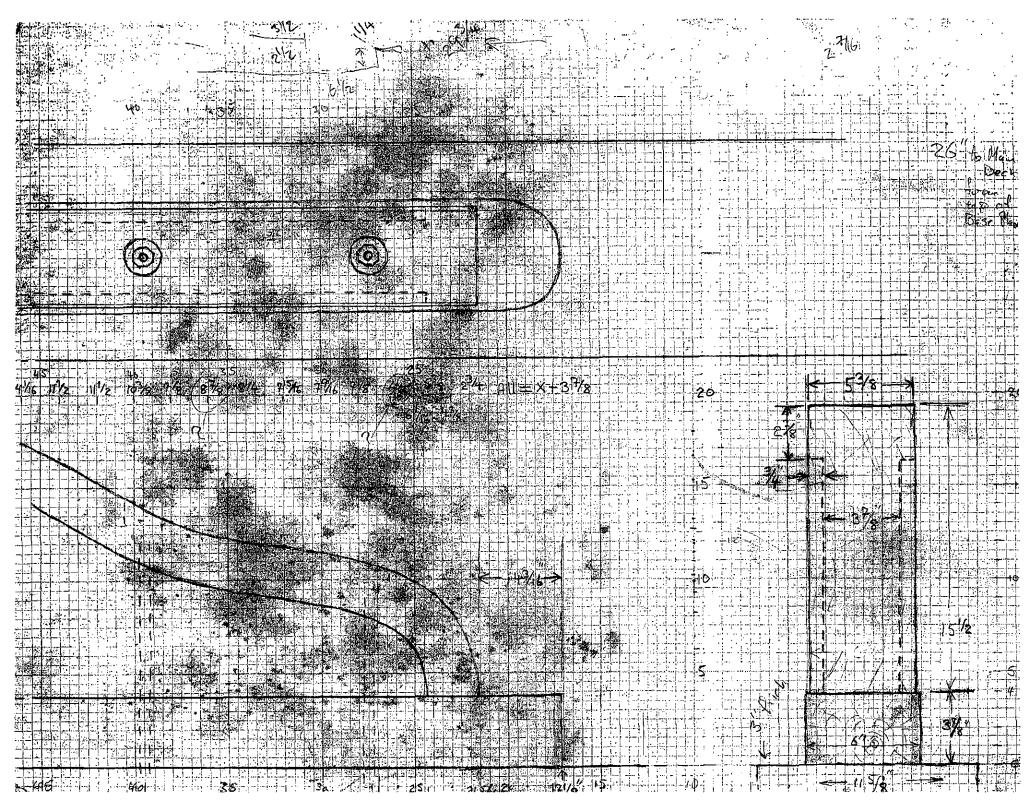




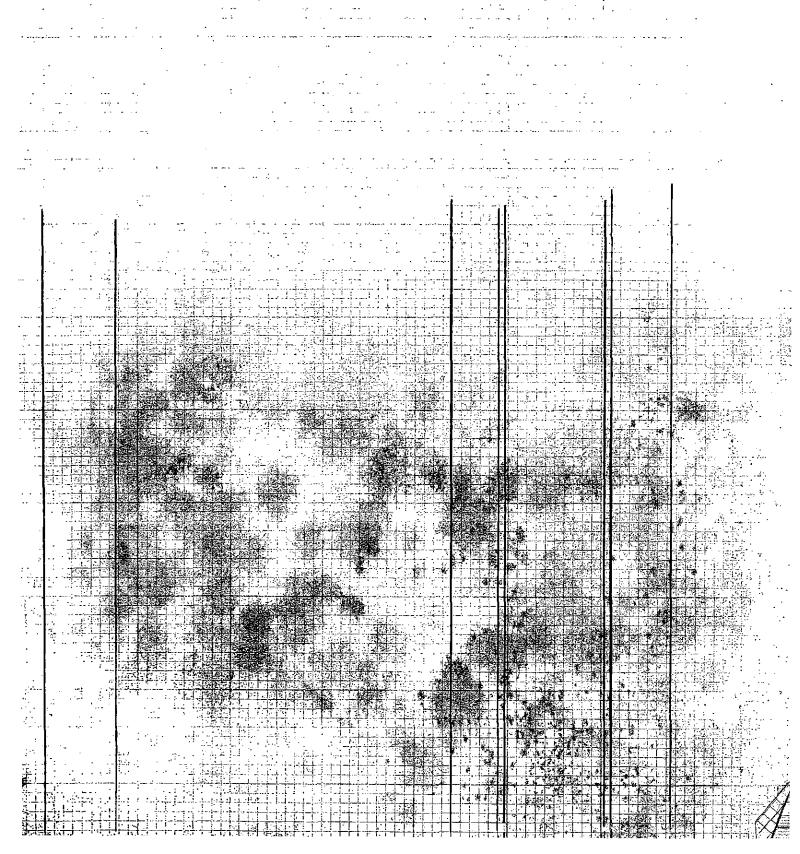








16 <sup>1</sup> /8  28 <sup>3</sup> /8  34  41 + 18  52  53 <sup>3</sup> /8  64 + 1/8  46 + 1/4  78 + 2  98 + 2  98 + 2  102 5/8  102 5/8  102 5/8  120 / 2  121 + 6	Buelantaga Buelantaga Beg 3 at 241/2 Feb at 603/4 Spices in Botan Staggered Attending Outside Inside 23/8 5/2	
78 Dia	75 3/8 Shaff 87 3/4 Rose teads	
text so of the second of the s	100 Boll 100	



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## V2XSec Levels

63 depth lines 61 lipsh hes

50 End froming 45 thd planting

1 framing cross action

ک

20

Looste-HUTES ON THE DISTRIBUTION OF LEVETTINGS IN ON THE BECK VERHAM BZ

PULLEY WARRES - BUTTHEFT ONE PSURY HOUSEN - # 10 UCMILLON POURYS ON WHEN 2 METEL CONDITION - EVERLINEWARDER PIECES PECCENIZATIVE SHAPES, LOTS OF "EUST DAMO", AND CONCRETIONS MATE - CONCICERTOWS - SPINOLUES - KISO BROWN ME BOX DROINTS - (SEE DRIEWING DETROL DOWNE IST OR ZMO DAY) DISTRIBUTION OF RUST PILES

RUAN - NOSCAVE VESSEL 2 SHOTTERS 747 10991BUE PRODUCE MESSEL WORTH and PREVAILING - CROB SHELLS! CLAWS - BIRD PRAST? TANK NICE PHICE DECK BIDGES

PILES OF METRI DEBEIS BY LOCKER HARD I'M WELL WINTE - DOOR W/ HAMPS RECEIVED AND WEEKER STACKERLY TO ARBELLET \_ Sum DEBELS PILE IN FROM OF SMAN HATCH TO SOUTH - POSSIBLE PAILING STANCHIONZ EAST PILES OF METER PERRIS BY LANGER HATCH ON EAST WINTE - MAINUM HINLES WEST - PESSIBLE SALVOWE OF DOOR -

PAINT - RED; WHITE ON RUBBER SERVES KNOWN KREEDELS WENTE FIRST

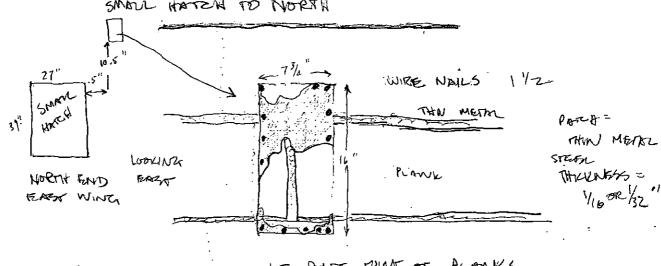
> WHITE - RED - PINK ON PLANKS JUST SOUTH OF LITECRE HOTCH ON EIGHT SIDE

WIRE COBURS @ BUT BLOCK - SE COVINER

3/18/04 MKF

## EUIDENCE OF REPAIRS - WINGS -

D REPORTE OF PLOWICING ON EAST WINT - ASOUTY OF SMALL HATCH TO NORTH



KT BUTT DUNT OF PLANKS

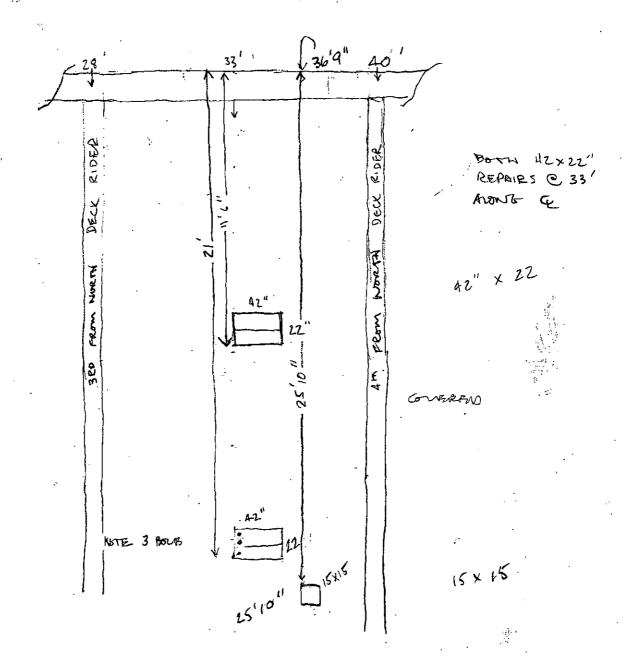
SEDRIEZ GLONDEUM (Bross) BOLT ON SMAN HATCH EAST WING NORTH

- 3 BIRBYS BOUT ON SMOUL HORTE BARN WING NORTH
- (P- NO BOLTS ON SOUTH HETER WEST WINE
- 6) BRESS BOLTS ON LARGE HORER WEST WING X Z
- 6 BREATH BOTT ON SMEN HOTEL WALT WINTE NORTH 1 DYEAS BOTT SPIER HINTER

NOTE LARGE THERMORD BOUTS ON HE ROPTING BIT LOVED BE REPLACEMENTS

MKF ...

EVIDENCE OF DECK REPARS VENSEL 2 SHOOFERS



8/17/04 MKF ME

PLONG THE DEPTH OF HOND - DEPTH OF FLOOR

FLOOR TOP OF DECK BEOM @ 46'6" FROM

UESSEL Q 12'7"

PROFILE MALLE MALL

:

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8/18/2004 MKF VESSER 2 SHOOTERS

WHEN'S REPORT OF BELEVE'S BETWEEN 5; 6 BEEK CIDENES

FOR OR 25'10" @ 57'10" NE CORNER 22 × 44 - COVENERD

25'08" 21'10" @ 57'10" NE CORNER 22 × 44 - NOT COVEREDO

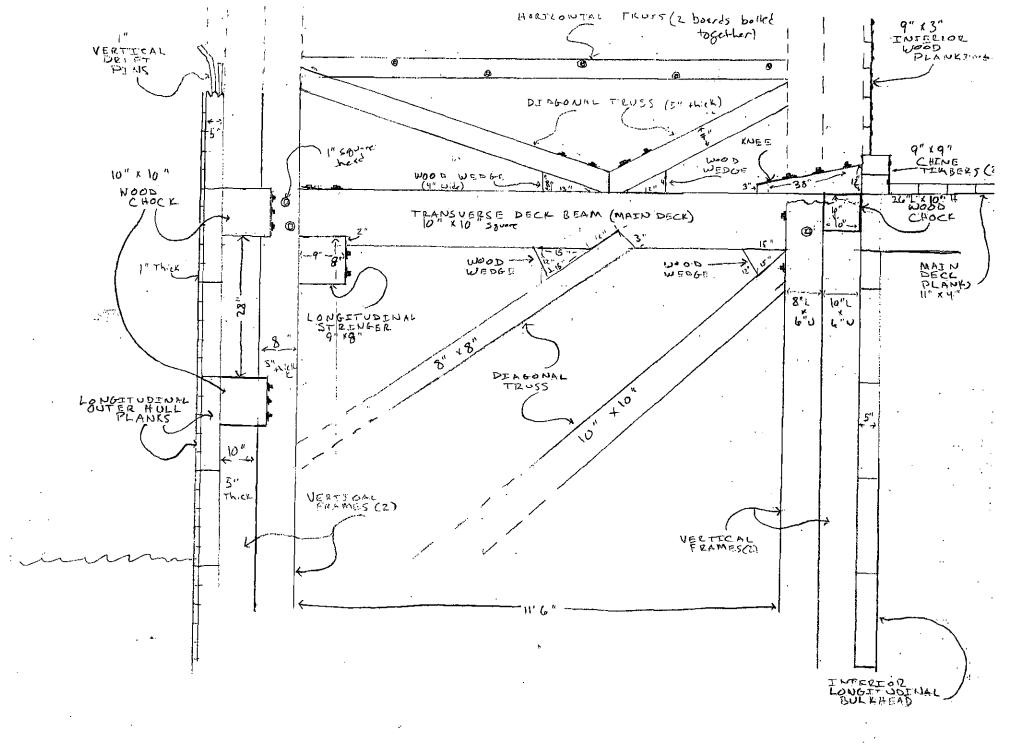
25'08" 21'10" @ 57'10" NE CORNER 22 × 44 - NOT COVEREDO

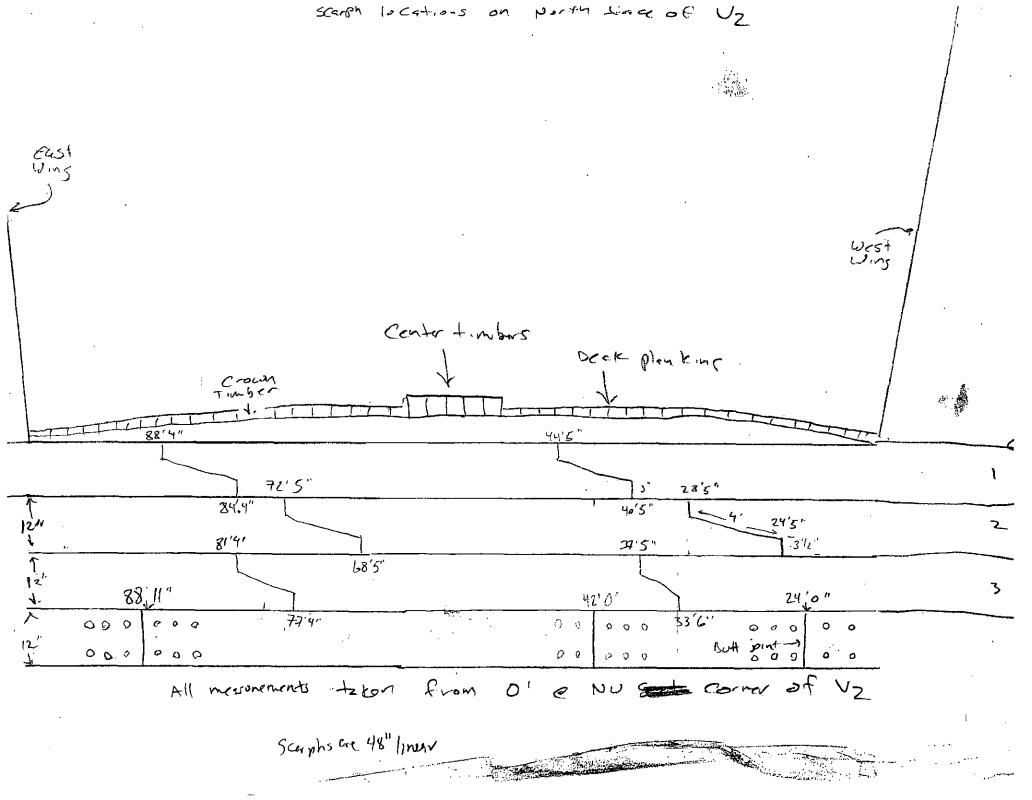
NOTE THERE ARE 3 MORE WELFAS" HOURS ON THE LESSEL 
2 BETWENEND RIDGES 3 ! 4

1 BETWENEN 11 6 ! 7

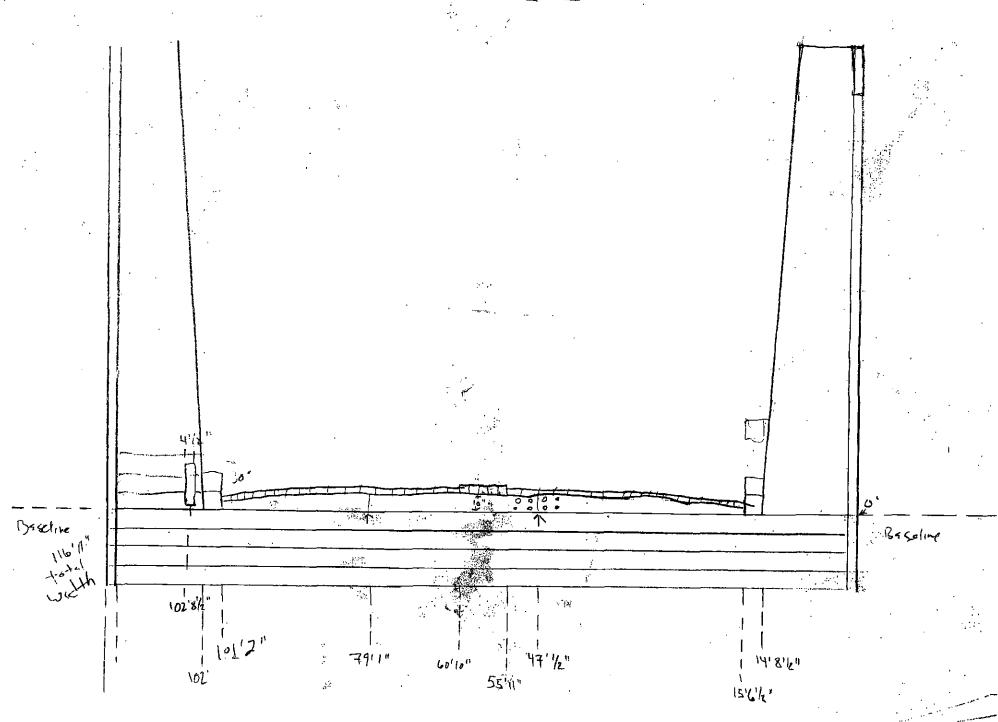
EWOME : MORE CONFUEND

REPORD OF PADEYE SETUP @ GT DECK RIDER - SOURS SUBE WHELE IT MEETS THE CENTER "KEEN"

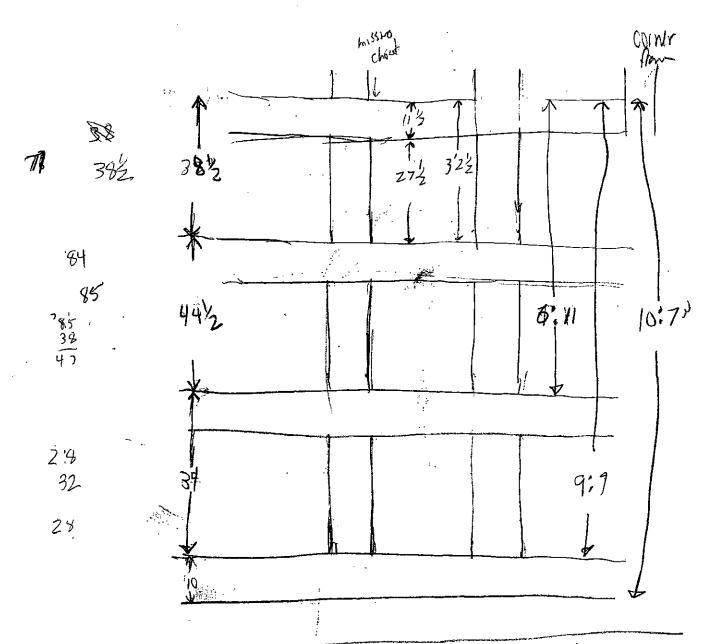




205-248 8739 chin Linda

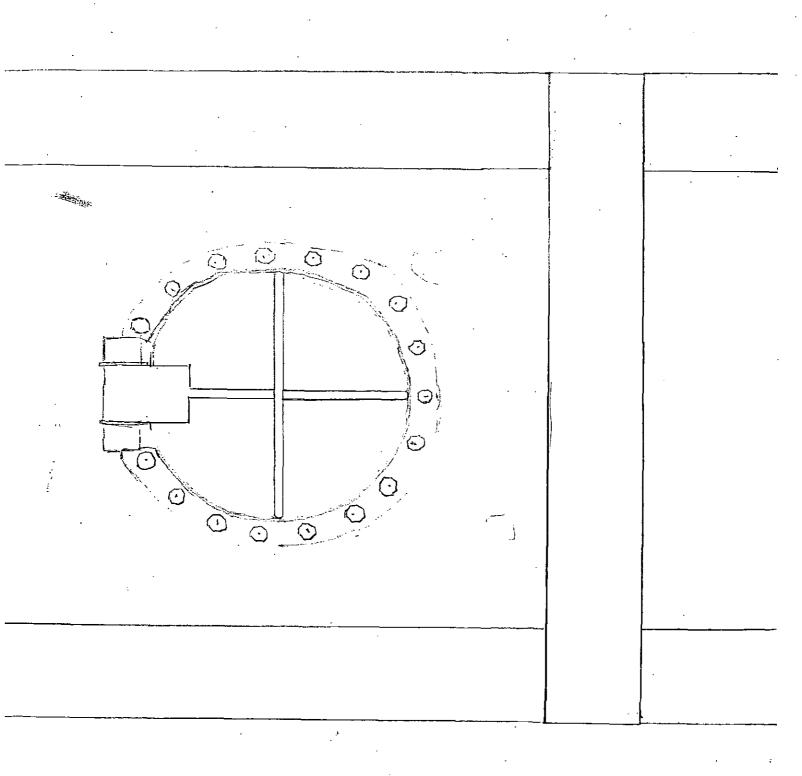


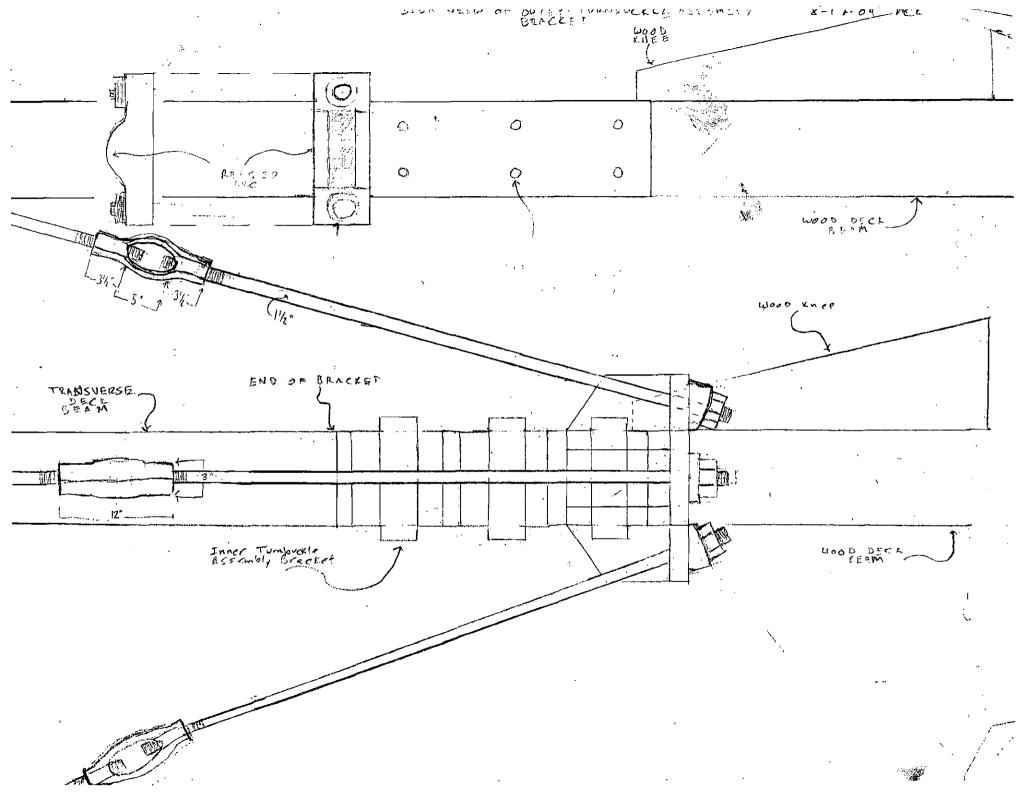
Circletor Gresslos 6/15/2004 V2 Forward and, Joshy French (nottin

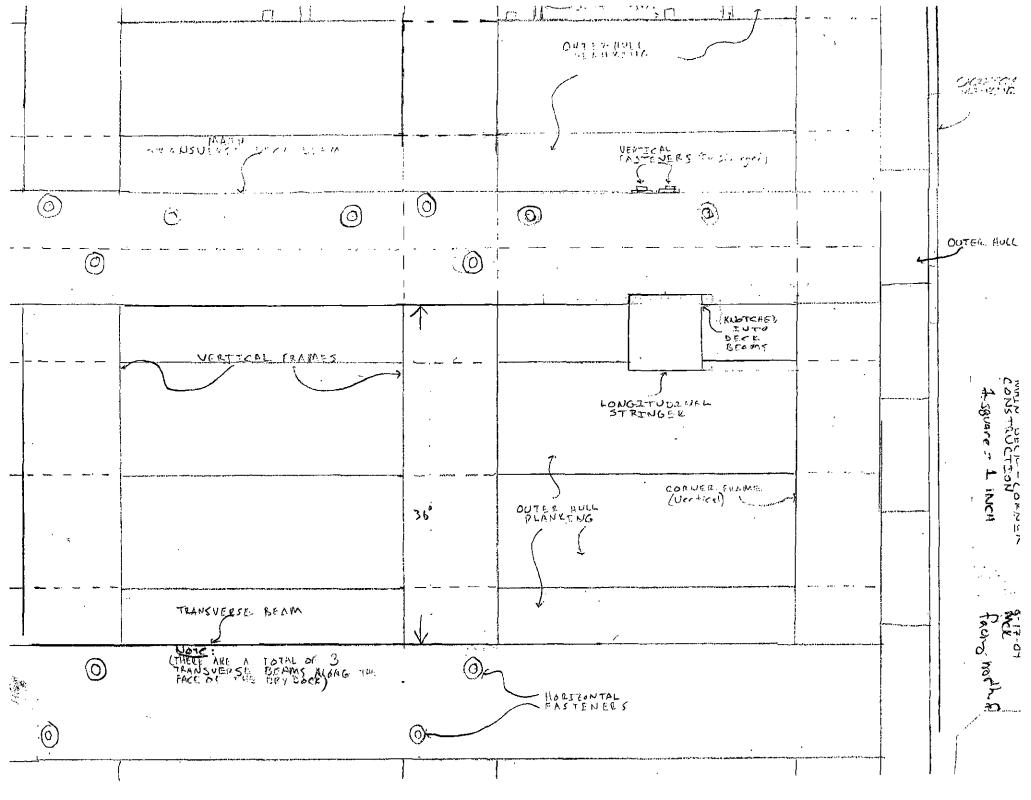


61 + 105 does not entablished hours

6 yessela V2 M. Krivor 81:7/2001 Stbd side outst vato





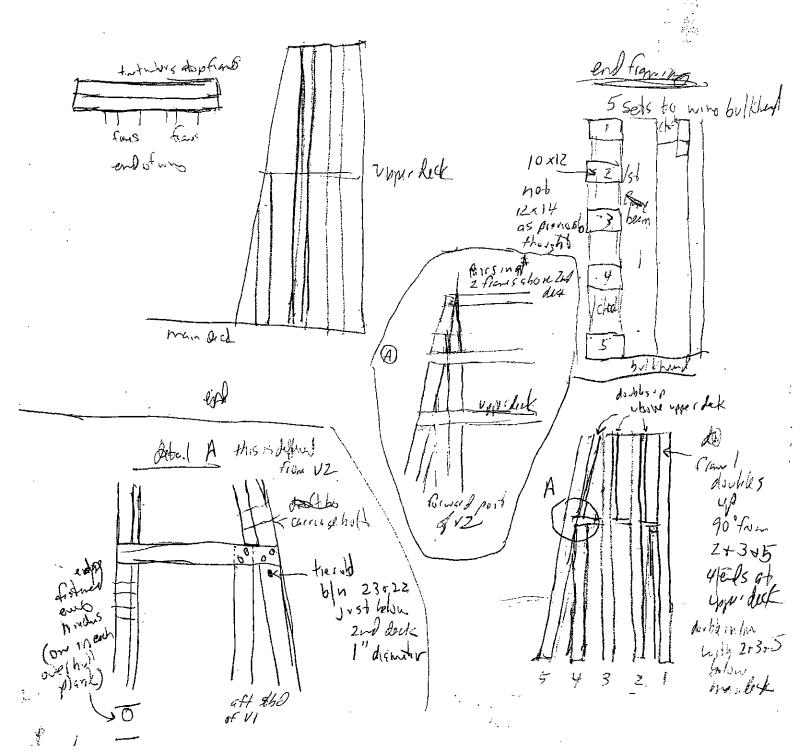


Lydocker 6 ressets VZ genal list 8/17/2004

inno end four bon)

ben s go of last known lock ben,

min deckbeen



wing from light

-chocks b/n frames

And to b/n frames

4 & 5

on both sides of wing.

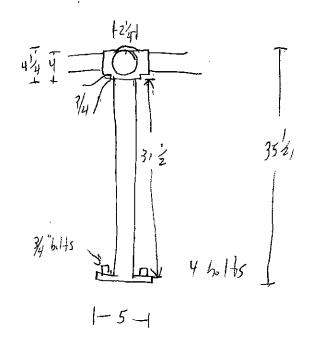
Spento double up (tendrous)

Cos to 1800-95

Evans spud between storch sons

Extra end of frames

2- Frans 2- Chocks top dock railing



ortlet p.p. flange locations deb ... 1

Crogs bein

Support

13

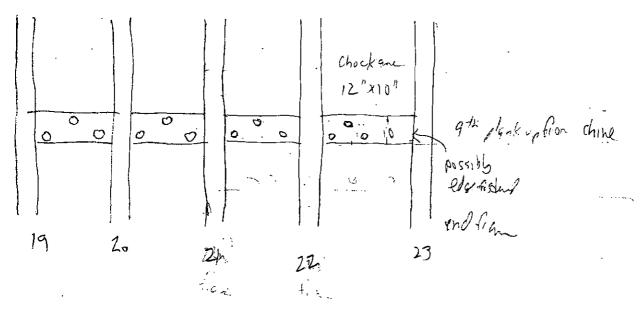
end profile debail +3/2+ curved timber kedge of sheet not a (Gosbard with reg cot mile) hill planks from 32 to 6"thick Chim 108 Same position, but viscilis 5 larger below 14 word to account Chinelob for 6" hull plank lookno west Stein looking north

## wing possile 14 des bese locations

8 m/ I
0 25
plant _
Sort \$128 on Plant 22 [
plank 17
Equiple D. Land but and but and but and but and but and

Chin

vino profite extra chook locations + fisher pottern



1st 4 frame spear

1st standinon Standaron Z Deckbem 0,0 10:10:19 Ling Charles BAE pust bem bean

84 in from TOP OF DECK Planking ME; MKF 2nd Truss - 30at 6:n from centerline 123 in from TOP OF DECK Planking 32 11 LOOKING 4 CENTER 35 FRANK 223/4 VERTILAR PLANE PRAME 3º TEURS ENTENIERS 31'6" LOOKING NEBRIN " FIRST" 172035 BUTTOM OF DECK BERRY @ 35' & TOP OF DECK 1 68" TOP O SEROND TESTS

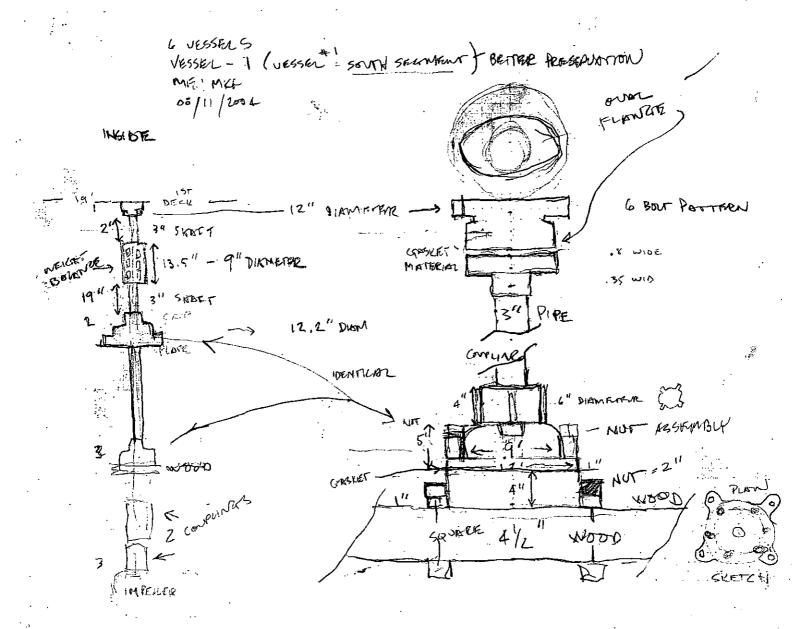
3. WO . TRUBS Q 20ft from conterline.

SHYPS

8/13/04

VESSEL Z

SHOWNERS



6 SHIPS - VESSEL Z 8/17/04 -ME! MET - STANCHION DETAILS (4' REINFORCEUES) 3 RO FRAME (FROM NORTH) - 1 BUTT JOINT @ 25' 7" From Q FROM CENTERELINIE STENCHON - 10 x 4 SOUND SIDE @ 4'10" FROM STANCHIOW - 10x4 @ 9'6" NORTH @ 18' 11" STANCHION 4721 STANCHON @ 23'7" From 475-05 STK STANCHION @ 32'11" = com q MASSAM 4th FRAME (FROM MORTH) - BUTT JOINT @ 21'4" IT STENCHION NORTH SIDE . = 4 10 " TIE BOD BULK HEAD 10 X4 18"11 "FRON 4. NORTH SIDE IND STENERIN REINFORCED DOWNURR 19' 4" -> 23'4" 21'4"= BUTT DOINT 3°D STANCHOW @ 23'7" SOUTH SIDE BULK HEATO @ 28'3" (5" THICK) ATH STEWCHIEN @ 32'11 NORTH SIDE ( NOTE SUPPORT STEVETURE FOR EMPTINE BITS ) 5Th FRAME ( (From NORTH ) 1 ST STONEHIEW @ # 4'10" FROM Q ON NOVERTY BULK HEARS C CENTER = 14' REINFORCED DOVELENE (BUTT JOINT) 14'4" -> 18'4" BUTT 201MC 12 #2 10, 4"

2" STENOTION SCENTER! 18'8" from 4 NOETH STOR 300 STRUCTION 123'7" CENTER SOUTH SIDE BULIK HEAD CENTER 28' STENCETION 32'16" CENTER NORTH SIDE

FRAME BETAILS
6 SHIPS - VESSEL 2
8/17/04

OUTE: TAPE MOVED BLOWZ.

CONTOR TO BLIGH W/ BACK

FRANKE - THIS THE BEALT

DISTANCE From G HAS EIVEN

Y- 1" MAYBEL

ME ; MKF

ET FRAME - MEASURES

NUT MEASURED ? STANDHONS - BETWEEN & 1 15T BULKHEAD - BOTH SOUTH
BULKHEAD @ 14'Z" FROM Q.

18'4" = 300 STONETHOW - W/ UEVERLAND BRAKER - STONETION ON YORTH

1500 C "

ATT SPENDATION - 23'2" & W NEETICAL BrOZE SON

STANSHOW 32'8" NORTH SIDE W WERTICAL SPACEN

7Th FRAME.

- 2 STANCHOWS BETWEEN & 1 15 BULKHARD - SOUTH SIDE

(NB- 10'6" FROM Q BU TRUSSES; WEDGES STORT HEREE)

- BUTT JOINT REINFORCER - 14'6"-18'5"

- TE ROO @ 15' from @

4 STANCHION 18'65"-19'4,5" NORTH SIDE

- STANZHOON 23'8" SOUTH SIDE W/ SPACER

- 28' 3" OL BULKATAAD

STENEHOW. NORTH SIDE @ 32'11" (CENTER)

STANCHION - SOUTH SIDE @ 37' 8" Wien

TO A3 1

8th FROME

EXCEPT BULLIFAN (LOWDINDING)

8/17/04 MELMER

MO:T = TOP OF TENSS

Frame 3

"2nd Truss-Laminated @ 28++ 6in - 50 in I Tost. To Deck Planking

3rd Truss@ 28++ 6:n - 9++ 8:n

T.O.T. +O DECK Planking

D(14in Tricker

4+hTruss Q 28et 6in To, T to T,O.D. Planking

1204

1

Bottom Planking -

13++ 8:n

2nd Truss 15in Deep 91/2 wide

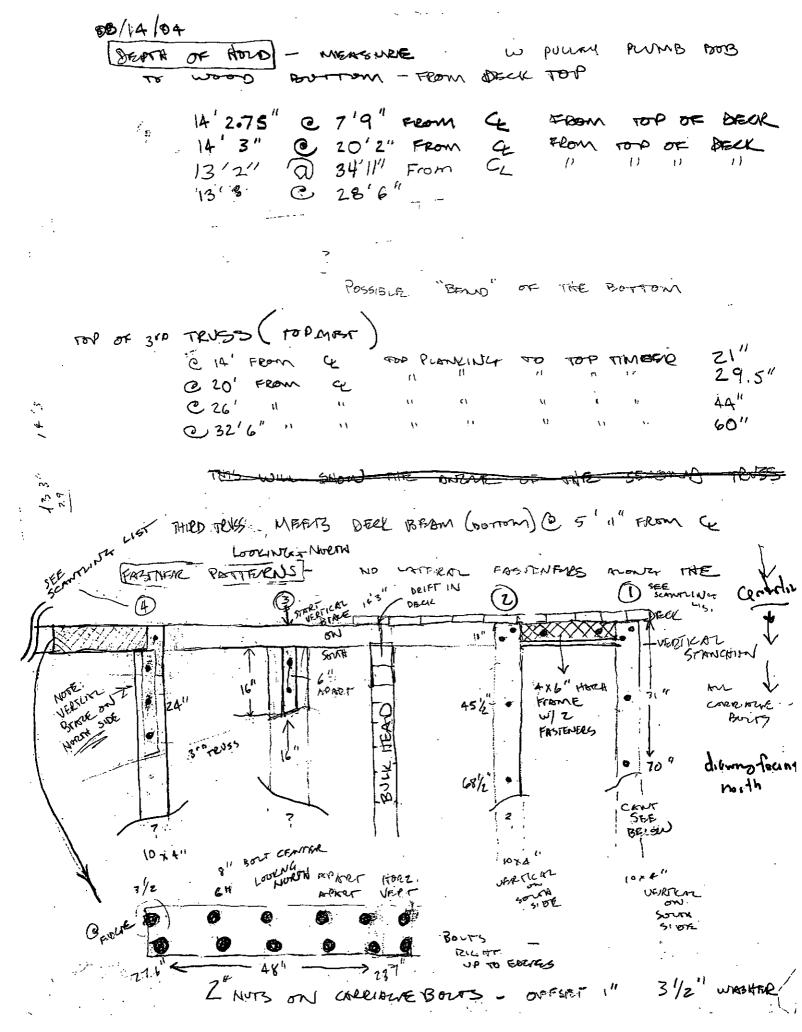
PLAN TIEN

91/2"

14" CENTER ON BOLTS

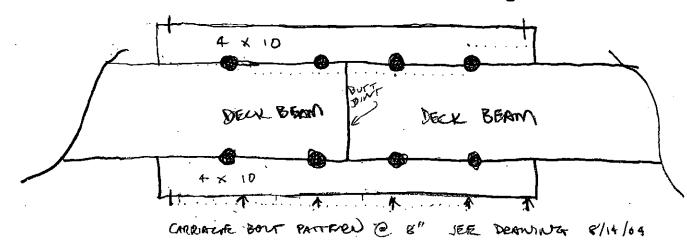
10 et 10 /2

WE : MKE All stantions measured on centers Deck Features on Vessel II L-Distances from conterline 3RD DECK BEROWN From world DROWNER W- 3rd DECK BEAM FROM N side NOTE From CENTERS) 400 GINDON OF VESSEL II (note from Centres) 1- 4+ 10in from centerline Vertical Standion (lainwide) south side / 2-5-+ 11 in Triangular Proximal End) oitel Aproximal 3-9et. 6 in - Evertical Stantion (10ing with 500th side V 4-10st 5 in - Distal End or Triansular " Blocking 1 5-14443 in - BUIK Head perpendicular to Deck Beams (commerce in) 6-15et/2in-vertical tie Rod Bolt Head 7-18411 in- Vertical stantion (1010 wide) North side 8-23+17in- Overtical Stantium (10 inwite) south side 9-2347in- medial Edge of reinforced Toint on 3rd Deck Beam 10-27e+2/2in- Vertical tie Rod Bolt Head 11 27et 6 in- lateral Edge of reinforced Toint 12 28H 3sn- centerline on perpendicular BUIK HOAD 5 in thickness 13 29et 5:n- noticed But Toint on proximal and an diagram tomore (TRUS: 1431et 2in- Proximal end of Triansular Blocking 15 33410in- Distal and of triangular Blocking Tevss 16 360 1/2in-perpendicular timber (8in wide) 17 42+11in- to edge of west wing -1 32++ 1/in - Vertical Stantion on North side 24in Vertical Brace - 58 in From Deck Planting to TOP OF Ansked Truss 36'in From Truss to Top OF DECK Planking 10 9 1" = HOTCH FRAME TIMBER 4" X 6" SCANTLING LIST - 3RD FRAME FROM



6 VESSELS 8/17/04 ME! MKF

PLAN - BUTT JOINT REINFORCEMES - PLAN
TEUNINEL PATTERNS 1" TRUNNELS



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s.

6 vessers - VI (survives) - 8/15/04

NO VIEW

- Extending scantings from 300 frame by menosuring

HOTE PESTEROOY WE TOOK SCANTUNGS ON FRAME 3 BUTSTOPPED OF KNOW FOR USIBILITY AND ROFTING BUTS FRAME WORKS IN THE NOOTH WEST CORNER OF U, Z

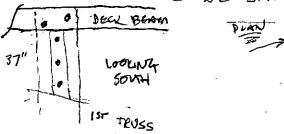
- VERICOL STANTION ON PROME TO 37'10.5 FROM &

1084, STANTION IS ON SOUTH SIDE OF PRAME 7

THIS HAS THE VERTILAR "SPACED"

IN [ ] DEW RESON

SEUTION



THIS WOULD MAKE 5 WERREAR STANKATIONS PER PREAME PATRICIE TO WEST WINDE: 43'1" & TO FOR BOTTON OF WINTE. - BUT DECK BEARM CONTINUES THROUGHT TO OUTSIDE OF WING.

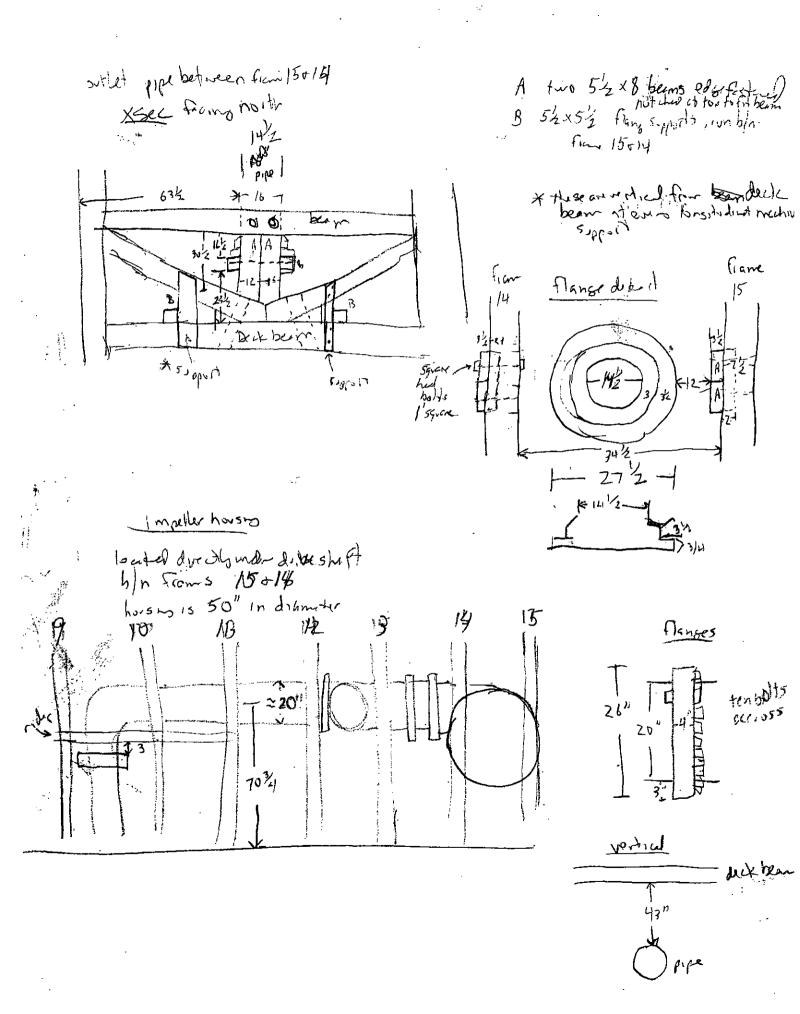
VERICAL SPAZEAR

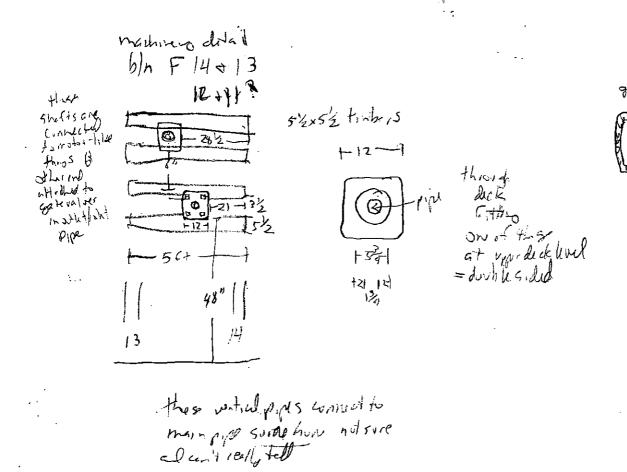
SIX VESSELS VESTEL Z - 5400 FRES 08/11/04 MK& 'S ME

12

FACING SOUTH

32'.6 FRAME DETAIL - VERTICAL DECK PSFAM # 11 (FRM NHETH) E Bour ! - ATTECATION . 40 555 UKETCAL FEATURE بر 5\ DECK PLANKING = 3.5" ASSUME 4" TO START CAULK = PLANIE POTTER PLANK DECK BEEN 10 × 10 ( BLOCK 10" WIDTH AI" TO WATER LEVEL @ 9:17 8/11/6 4 FASTENFILLS 1" BOLT HEARS W/. 2" WASSER DIBLONGEL STANLION SOLIND TIMBGE VERTCAL STANTION w/ 3 firmuzs 54 x 10" DEHIND" VERTAL STANTON BETWEEN ! TIMBERS 6 TO BOTTONY





\*\*

location of hims truss

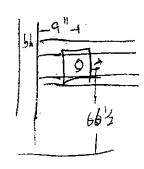
main dick bear

gelevalus

18th Francishkur)

9" ast

66½" in fion chine



Sand distance Formand of 8# Franc

Curel ap

extudo up

to 60H2... of plack #39

Deck crown messands

offset dight

2:6

10"

5:0

10"

10'0

9/2

15:0

834

20:0

9''

25:0

634

30:0

434,

35;0

9:0

3

(,54

10 cation of large hat ch 51:3 1/2 47:6 1/2 1114 wide

Cline log scantlings

at wolder from

10 sider interes

Bre-105

15 8" 5"

4.452

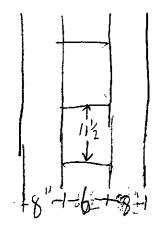
Inch depts but held

Dick bedson I have Esteria potentia Is Chine loop both Joins ~4" 65:13 Upper 124-1 51:3 42 -43" Lower 36" Z8:9 L ppir 14:9 10 000 Chirle 6 festine plain fical 1 bulkhed 00 0 00 by presis + 19-21" Deck. Originally molded 10" filled with with

SILLA

proble of wing frames

. Vilkhad (Frams)



Sendings
hikhuld timber
sided 10 1/2
molded 6
hilkhuld figur
sied 8
molded 8

reo france (france)

Cross trubes
notchedin

this side is forward on
francs 13-27
col aft on 1-12

m 9 -

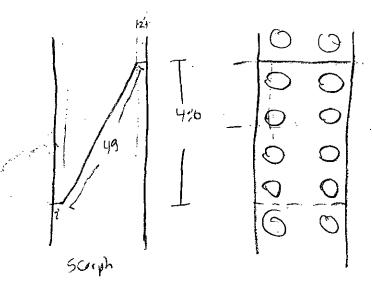
Start b/n from 50 b

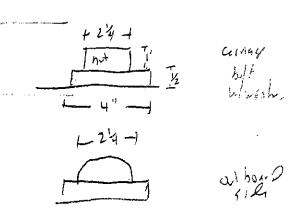
one plant high (112")

fosters go through upons - probably so through
both charm logs

Deck bern plans

Cane 1





mild 12"
side 15"

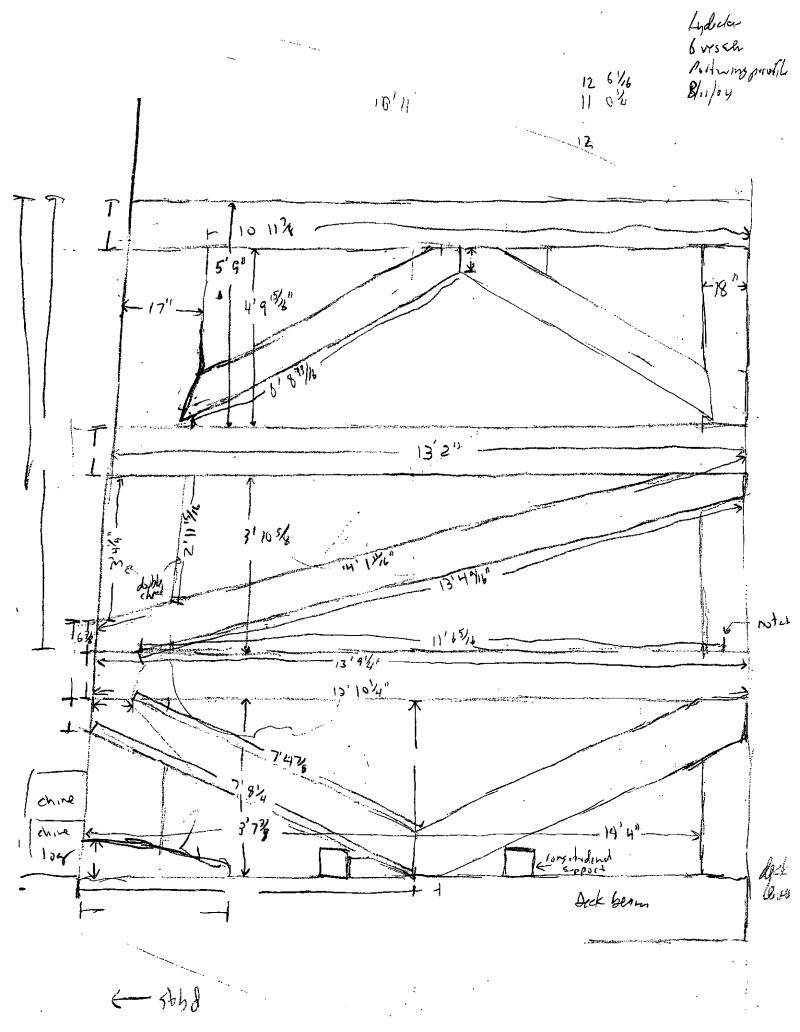
10 cation:

Introductive 23" stid of

3. I long. b. Ikhen?

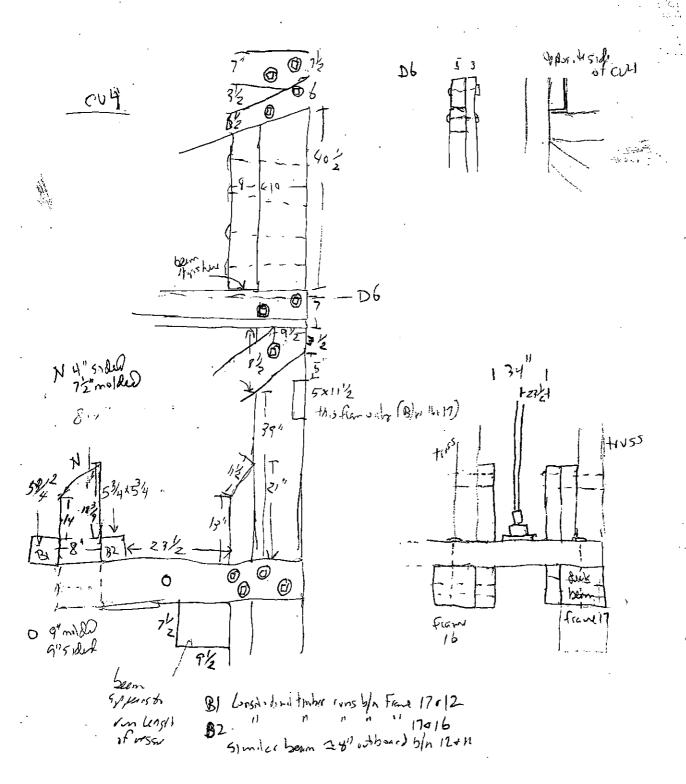
...

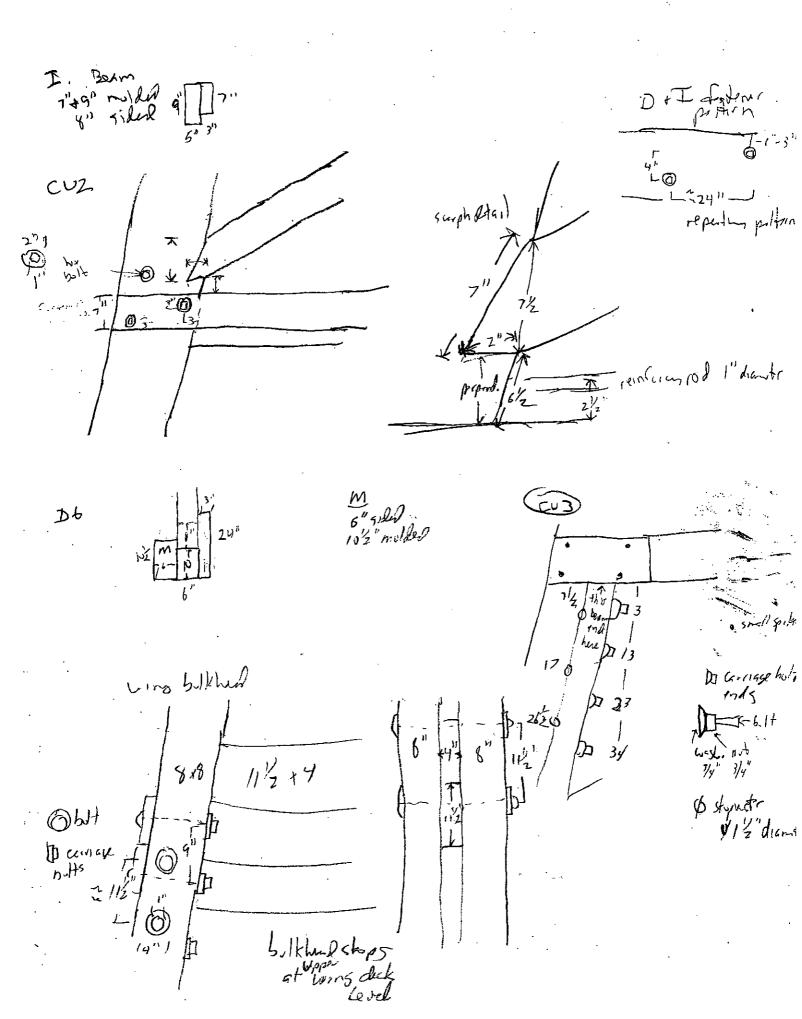
3/2 bother hall of fine 200. Lins from profits 表計 you did ben 3" no ly (-7"5, R. SIDE 45 figues Lpgir dickben ipper dichlend - frans become 10" probled at upper dech July hall planky - 5/2 inch fice solled to uppoiduk to sile of fram 21 planks instead, makes it thicker 2 7 th tol Afrene faces in board, swithers side almilpoint holdhuffosters patein Z boards long druft bults



VZ wigxxc France 15 8/14/2004 Lyderkel 5 contling 5 C Wins planting 3/2 moiled A. vertical frame 7"molder 8" 1100 18 milder two timbers in golded 3"+5" For - 95 D Bern 5"-6" sided 17 milled wasses 12 tombers 11 tomber \* 12"51200 2045. de 10" m. kg). 6" 5 ske) 1 ws. de 800" miller 6" 51 left Zberns B Burn molle 52" nolley, 51/2 51/2 E truss 5" sidil 7" moldel note: M. O Chock 314 deck D6 CU1. £ 16.  $(vZ_{+})$ states I 6"-6 EVJ T)(VY) 1 Carriage 50/ F Bun 10" sided PI Hollid Blim 10" milder 10" Sideal H thee 10 11/10 37" \* note = Homes I, B, D, E are compositabethes with difficient Size tikhers

6 1858 W





wng profile

pit wing frame locations

Prot	WINE THE MY PA	10	
	rumints to contra	A	
Framo	B/C,	bilkheds.	
f	1	8	
2	4' 4	16	
3	7 10/2		
<i>≫</i>	11 3		Wic
5	11 3		٧ /
6	18 31/2		17
7	21 9		t
4	25 11		
9	29 9		
	•	port was ferre locations	<u>.                                    </u>
10	32 4	Else Ale without	
17	35 10	h ham of 11 10 21 2	
12	40 8	coincismal 11 10 212	
13	44 2		
)4	47 8	24 Am left 14 1	
15	51 3	Corms	
16	54 0	4. bracket 31 6 24	
17	58 3	b.Hay 47 7 15/2	
18	61. 9	COLMI LENGE	
	-	Litch	
19		· 5. 1/2 WA 5/3/2	
20	68 9	lauchta	
2)	72 3	65 10 212	
22	75 8	find by hitch	
23	79 0	inter	
í '- !		68 1 214	
		Smill hatch	

Was planking 9"x 3" 1st 16 up 6 on ching 7"x3" (+st) 18-39 40 x6 (45%) 40-41 6x6/est 42 143

cross bucomo in wings switches sales at a mitshys act side formerd, former d side cft.

173 frame southos 17" moldel (+20 timbers 10" + 7"))

29' 57/6' to topotolink t 2 50 gras, measured # of for top of chine

08/10/04 MKF/ME

CLORTING BRY BOCK

FERTURE # 1 WEST WING

LIVELYE HATCH 45 x 69" OD:

CAUCILING GTAPS 0 1/4 - 1/3"

HATCH BOUS = 9" LONGE

THIS HATZH

SKETCH OF WEST WINZ

4 DOGS EXTANT / TWO OFF

HATCH ON BECK

PLANKS = 9" x 3.5" THICK PLANK CHARIPTURE BOUTS baren PLEN PLANK 1/2 LIP STICKE OUT 3/4 3 Bowles POSIGRE THE TOP OF S - PURNIC FAIRT private MYDE PLKUK **1** 3 60" MODE NOI LES MOOU 9" TIMBER -- 36"-NOTE: TIMBBE 30.5" MISSING DEEP FLAME W155 12 1 MBER PURNITE < 100 PLANKING Z1/2 DIRM (0) DIAM 8 Ð

SIX VESSELS

VZ SHOWTERS ISLIGHTO

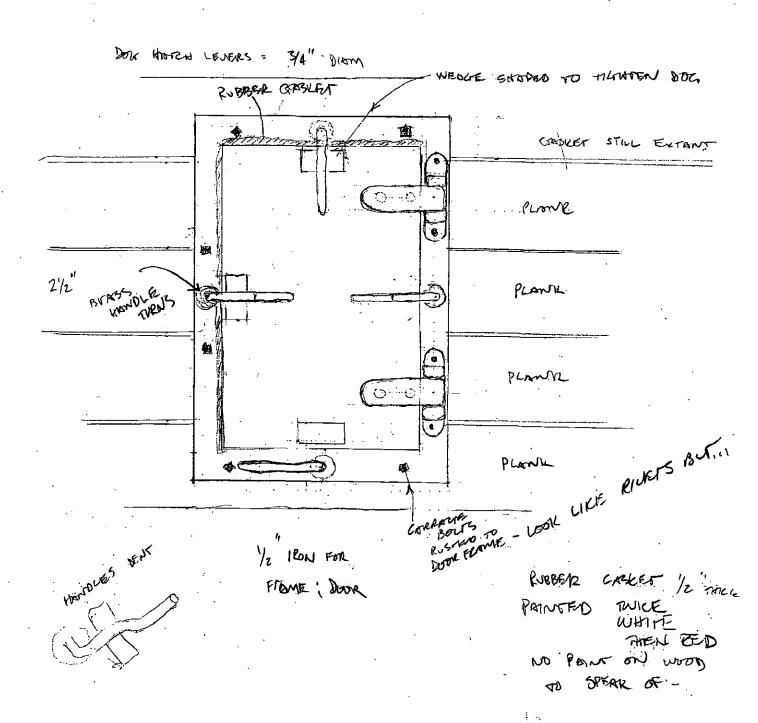
MKF & ME

LITTLE DOOR SOUTH ON WEST WING

FRATURE Z

WEST WING

HINTORS 8/2 x 21/2"



bresslas VZ Slinjay wing profile

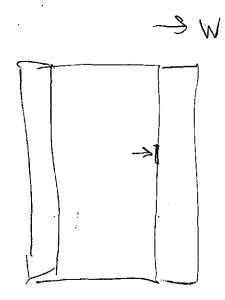
WING P	lank but just locations
Frame	plank
6	1
7	3,8,11,15
9	2,7,10,14,25
10	27
\	1,9,13,22,24,29
12	38
13	12,16,17,19,32,34
14	hotch, 18,23,28,30,37
15	11,15, 35, 33, 35
16	When 21,27,32,36,38
17	2,10,14,27,40
18	17,20, 31,39
19	chirolog, 1, 9, 13, 19,22, 34
۲0	24,29
71	num
12	hore

Jun Dations gre on center of frame for first 16 plants, after which they are offset 26" off

## Panamerican Consultants, Inc Recordation Form

Project Name: <u>6 USSU/</u>	Project Number:	Vessel Name: V	-2			
Team Members: Miche	iel Fausht /	not Elliott				
Feature (i.e. Cross Section,	Plan View, Etc.): Ha-	tch feature #1.	WEST WING			
Photo Log: Note: Be sure to place measuring device in camera view						
31 Roll #/Shot #1	Location: West	wing Direction: West	FROKING HW			
Roll #/Shot #	Location:	Direction:				
Roll #/Shot #	Location:	Direction:				
Roll #/Shot #	Location:	Direction:	<u> </u>			
Roll #/Shot #	Location:	Direction:	<u></u>			
Roll #/Shot #	Location:	Direction:	<u> </u>			
Roll #/Shot #	Location:	Direction:	<u> </u>			
Roll #/Shot #	Location:	Direction:	<u> </u>			
Roll #/Shot #	Location:		<u> </u>			

Sketch of Feature (include measurements):



Luple der 6 vessels V2 wins planking fastens pettern

Ram 8, 1st 51 Khed Frame 9

> where Is bulkhead in relation?

figme 8 balkhad Fram 9 2/2 b.H.

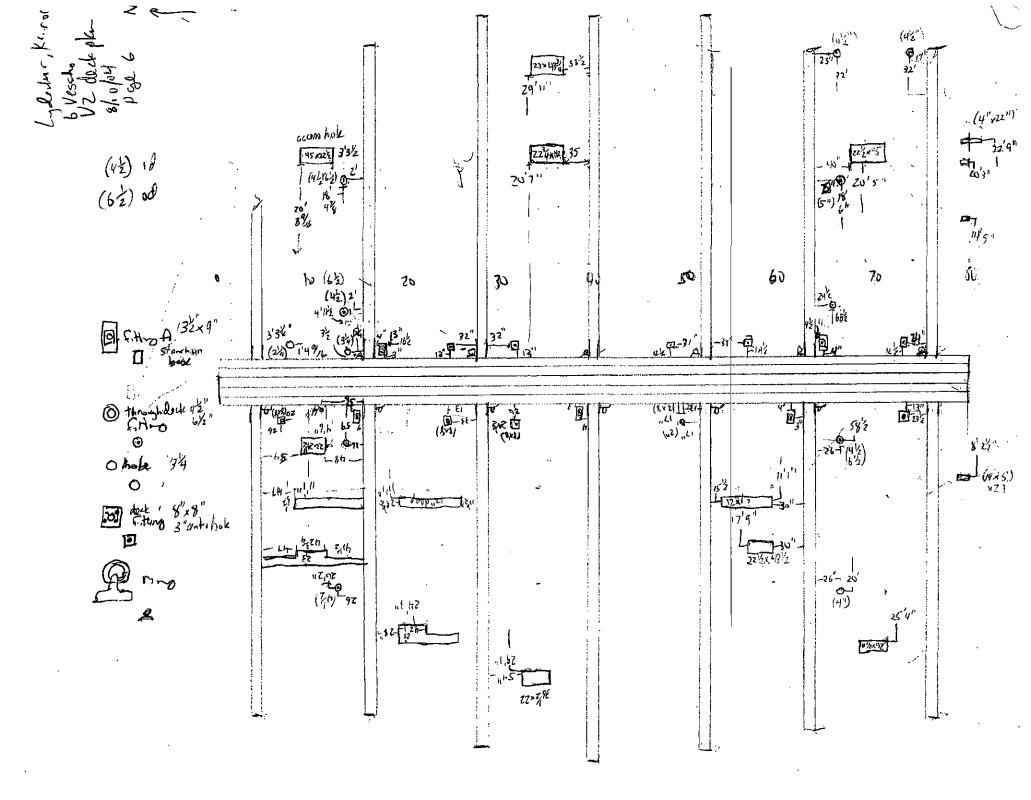
fastners:

· 5/8 " head at no! 1/4" Shaft (910 dry

Mz" hedspike 3/4 dia givenge

24" diamitisher countrisink 3/4 inch Deck plan

		Sholoy V2 dect plan
Ject pre bearns 32/2 roon 32" 9/2 space 10"	Cocation of Deck beams on B/L starting at Nend message center to center	
	Bram Bt.	-
23 <b>SE</b> 5	2'1" 2 5' 3 6'6" 4 12' 5 15'6" 6 19	
42" total beam set x 23 sets =	y 12' 5 15'6" 1 19	
112 23 966"	1 22'6 4 26	
126	9 (29'6" 10 -33 11 136'6"	
966 121866	13 43'(")	
٠.	14 '47' 15 '50'6"	
	16 54 57'8" 17 61'	
	19 64'7"	
	21 71'5'/2" 22 75'1/2"	A CONTRACTOR OF THE PROPERTY O
	23 78' end 80'	
_	·	
· .		
42#		
77. 37学		12
42"	35" 2"	
. 3'b"	1 2'11' 5' Y7'2h	and the
· · · · · · · · · · · · · · · · · · ·	3'	funos

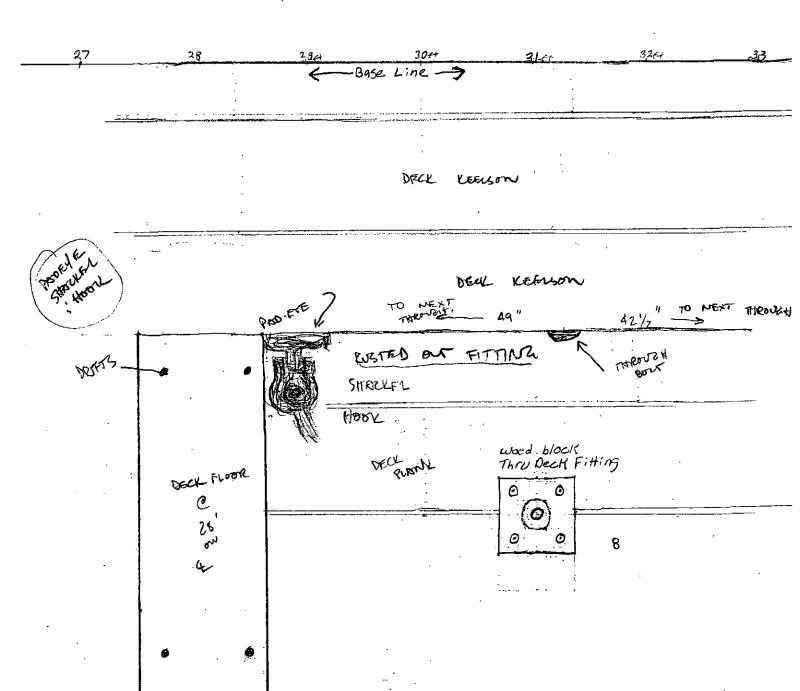


481/2in From 31+4 on baseline

WOOD BLOCK DECK FITTING

VESTEL Z - SHOOTERS ISLAND) 07/10/04

MKF ; ME



SIX VESSELS

VESSEL 2 SHOOTENES ISL.

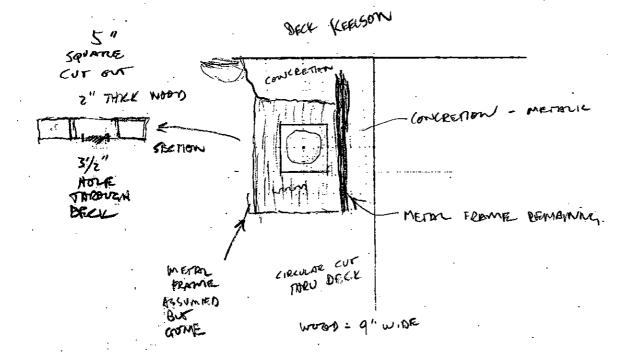
07/10/04

MKF; ME

38'1"

38'1"

CEMTERLINE



DIX VESSELS

VESSEL 2 SHOWTERS

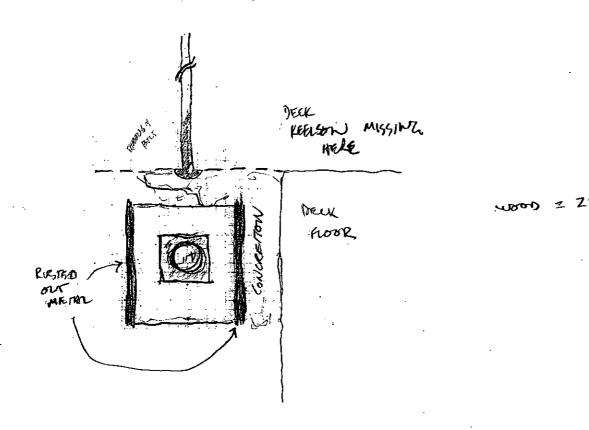
7/10/04

MKF & ME

62 4" 25" 63 2"

7

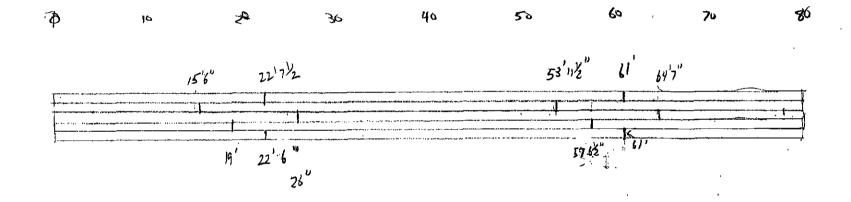
4 MEASURES



Dak plank joint locations, statiste

٥	rck plank	Joing 1	actions, sto	sike	
	B/L 4"11" 4"11" 12'0" 15'6" 19'0"	Det 94 11 13 59 13 12 69	nk# 1313	B/L	13 18 21 35 29 10 13 17 20 26 29
	22'6"	2 15 18 21 24 32 38 40 7		//·	* * .
	29'6'	7 10 7 3 3 16 9 2 2 5 0 5 8			
1. 1. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20	33' 36'6" 43'6"	953 14 17036	÷		
151 100 7 bsc 4 dib	57/6"	38 31 27 14		٠.	·

< -->



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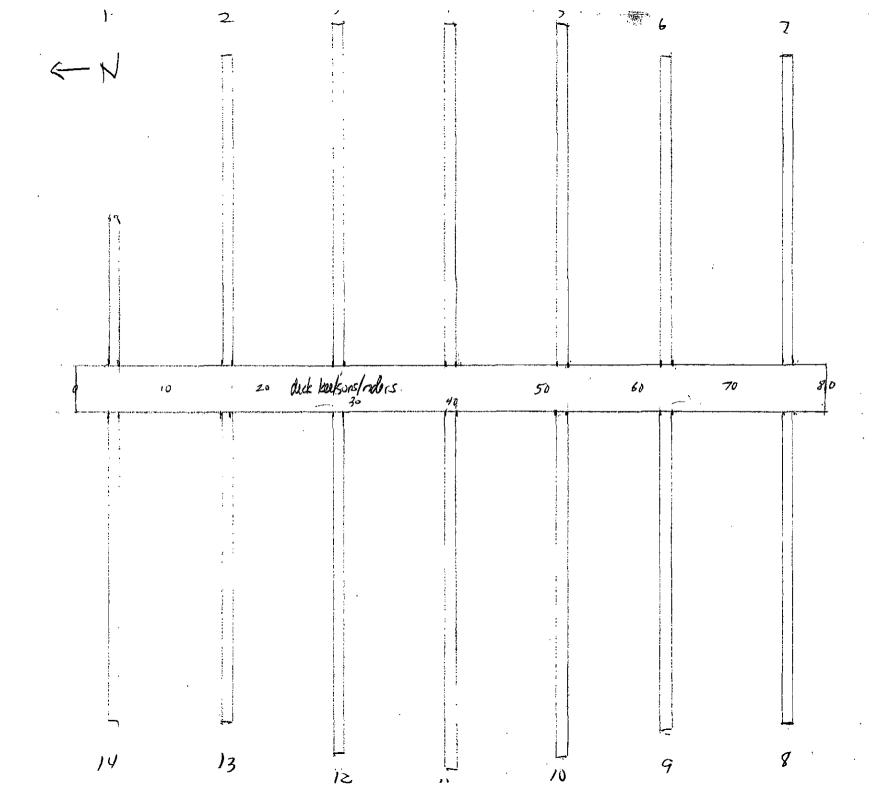
Knvoi Lydocka b vissela Wirloy Dick plan Port Sido deck plank offseto

B/L 27'53"	dick plan took kelder 1,1 1 2 3 4 5	155 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40 41 42 43 chirelog	39' 10" 40' 11' 41' 101/2 42' 11" 42' 11
	4567891112341516	56789111213451179821222		
	7 19 22 22 22 22 23 3 3 3 3 3 3 3 3 3 3 3 3	18 19 20 21 22 21 22 22 22 23 31 23 33 33 33 33 33 33 33 33 33 33 33 33		
	32 33 34 35 31 37 38 39	32 5 33 2/2 34 2 35 2 36 0 37 0 37 10 38 10		

chine

Chine log

: . .



lydecker Krissi 6 ressen 8/11/04 Dock plan deck yknks stad side /'7" 7/3/ 12'9 72 17'51/2"
18'41/2"
20'4" 21/3"
22/22"
23/11/2"
24/2"
25/10/2
25/10/2
25/10/2 28'9" 24'8" 301811 31'7" 33'5½" 34'4½4

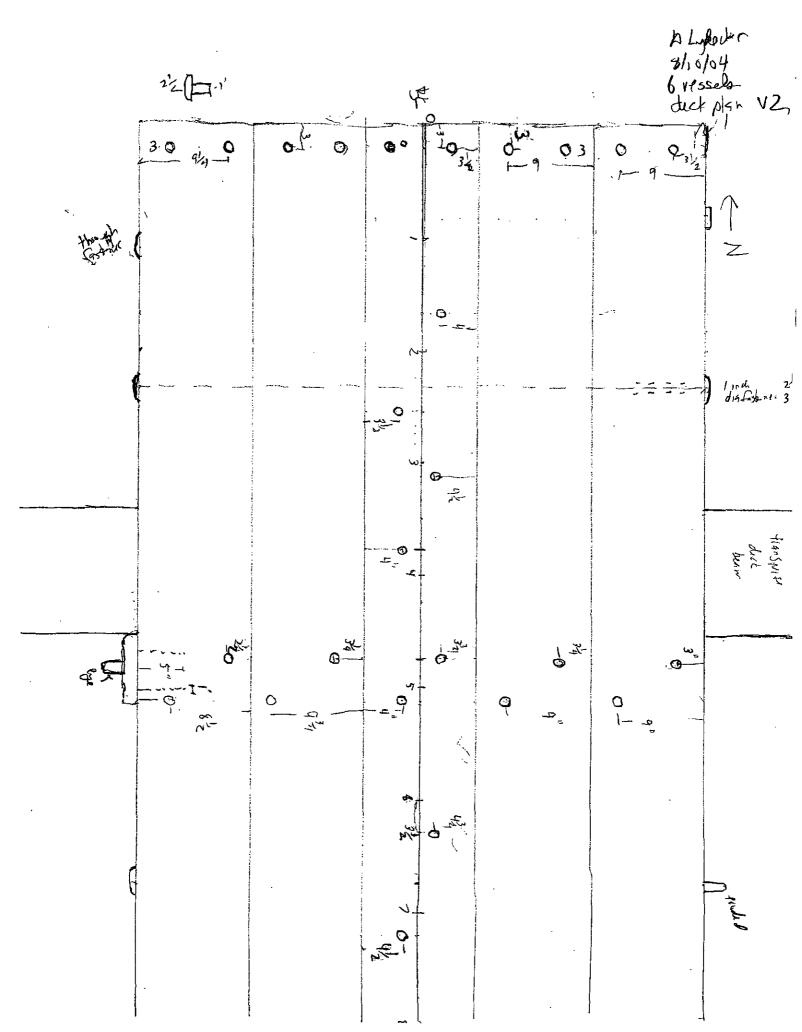
Dek Kelen

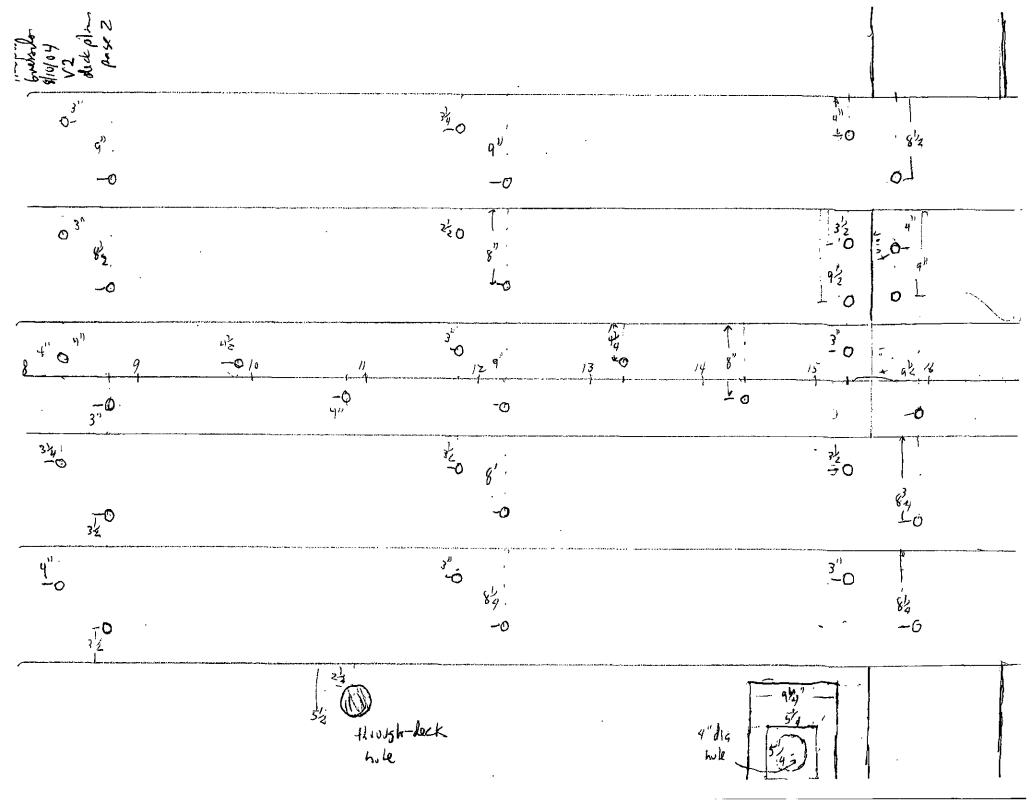
3, 32

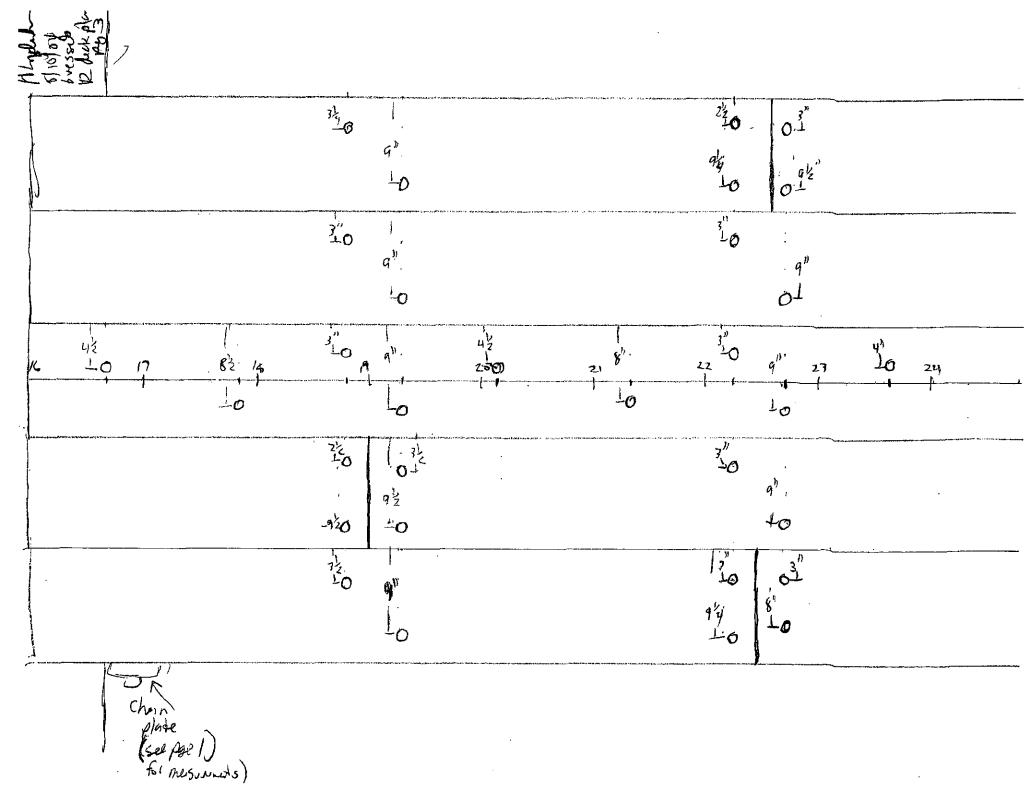
33

;		
23') 27 9'2 15'4" 27'9" 17'1" 21'9" 20'1" 28'5'4" 21'1" 27'9" 24'0" 28'5'2" 24'0" 28'5'2" 25'11" 27'10"	Dick plankir 1 15 35'42" 28'8" 36 36'3" 37 37'2" 38 38'1" 40 40'0" 41 41'1" 42 42'1" 43 43' 2" Chine 43' 2"	Alank Del Holon 11 12 13 45 6 7 8 9 10 11 12 13
28' 2" 28' 5" 28' 2" 27' 9'2" 30' 000" 27' 9" 32' 2" 28' 5" 34' 32" 27' 9'2" 36' 4" 28' 5" 38' 5" 28' 5"  which shows except for #3 which have joints at off se	4 + #5 et 12'9"	14 15 17 18 19 21 2 3 24 25 2 2 3 3 2 9 3 0

act below.







### Panamerican Consultants, Inc Scantlings Form

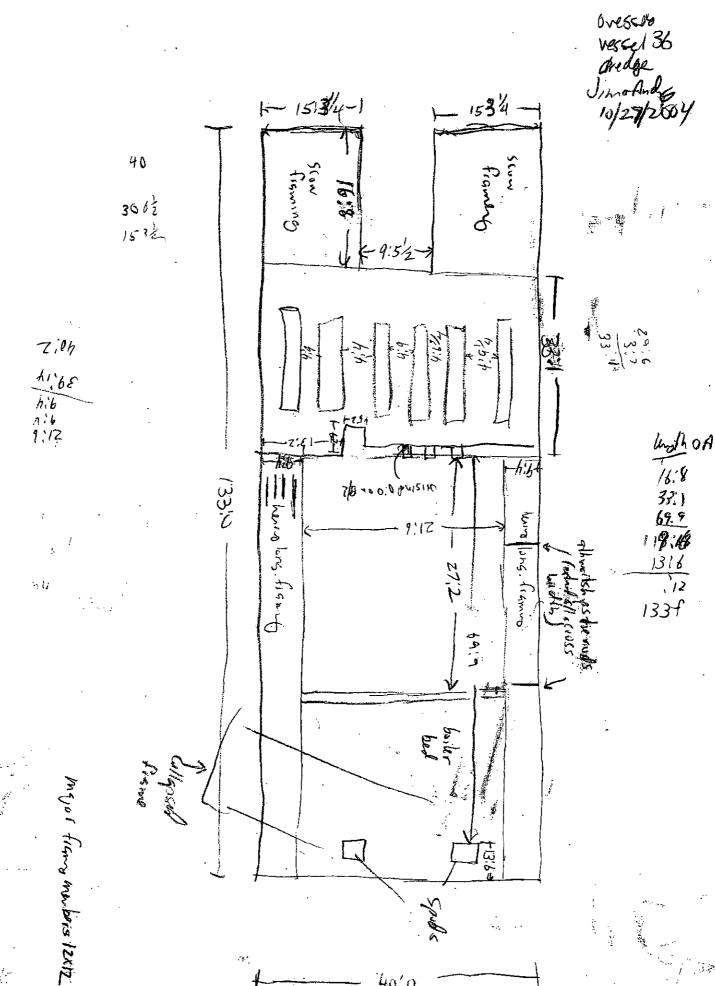
Project Name: 6 NO	Project Number:	Vessel Name: √2_	
Team Members: Kan			
Name of Part:	whilder teelson		
	essel: main bek , centre	line	
		12" Length Van See	8/10/04 012 deck
Sketch of Part (be sur	e to note fastening size and l Lukplan pos 1-3	location, including joints) (8/10/04)	
Material:	Shape:		
Photo Log: Note: Be s	ure to place measuring devi	ce in camera view	
Shot #	Location:	Direction:	
Shot #	Location:	Direction:	-
Shot #	Location:	Direction:	-
Shot #	Location:	Direction:	-
Shot #	Location:	Direction:	-
Shot #	Location:	Direction:	-
Shot #	Location:	Direction:	-
Shot #	Location:	Direction:	
Shot #			-

### Panamerican Consultants, Inc Scantlings Form

Project Name: 6 Massar	Project Number:	_ Vessel Name:U2
Team Members: korold	over	
Name of Part: + 4 msurse los	sk bens	
Location of Part on Vessel:	moin deck, proposale for to	dock keelsons deck , Now
Measurements: Molded: 1)	Min buck, proporder for to Sided: 13/2	Length
Sketch of Part (be sure to no	ote fastening size and location	n, including joints)
Material:	Shape:	
Shot #		Direction:
Shot #	Location:	Direction:
Shot #		Direction:
Shot #		Direction:
	Location:	Direction:
	Location:	Direction:
Shot #		Direction:
Shot #	Location:	Direction:
Shot #	Location:	Direction:

## Panamerican Consultants, Inc Scantlings Form

Project Name: brossly	Project Number:	Vessel Name: VZ
Team Members: [ slake , k	ravol	
Name of Part: Deck plank		
Location of Part on Vessel:_	ůk	
Measurements: Molded: 44	" Sided: 11 <sup>h</sup>	Length von W
Sketch of Part (be sure to not	te fastening size and location	, including joints)
		•
Material:	Shape:	
Photo Log: Note: Be sure to	place measuring device in ca	mera view
Shot #	Location:	Direction:



# after head drive me chanism

plac elak fo centriline of Sheff 8:4 12-1 52 4 . 8hu|}; genr 34°dia lube. hensing below Zz"oncutr b/+ teeth 17:4 9:0 42 tech

77-1 23 100

73 J

10%

Electrical for Corel

MES 68

F. H. Lovell - Co.

Arlington, NJ V.S.A

g. 1. . . .

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SIX VESSELS
27" OZT, 2004
BREDAR- JESSEL # 37

(4' 9" 21177

PLAN

FORTHEST 9780 L BUTTRESS 11

FIND SPECE PIND = 1 DIOM.

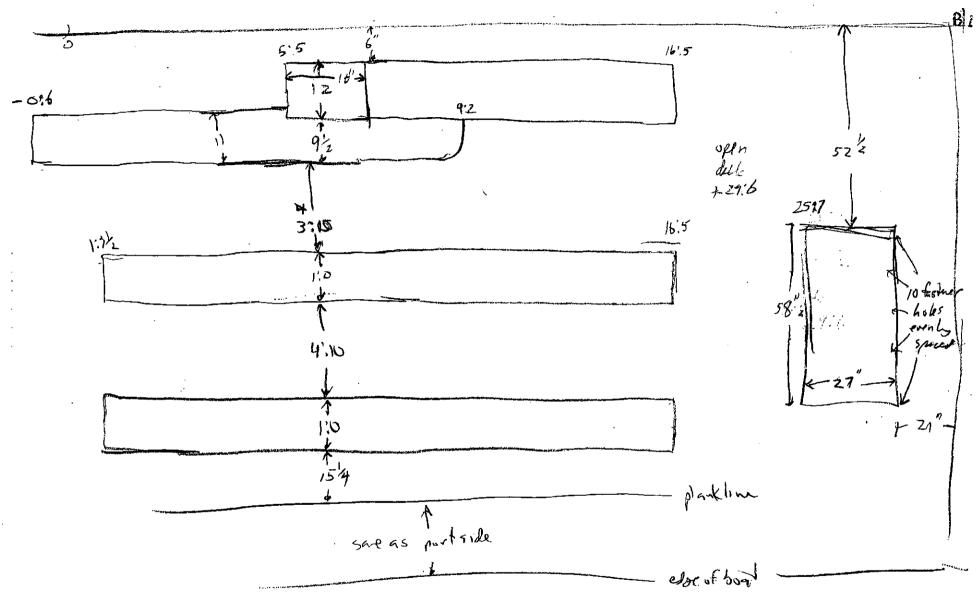
NOT SPECE PIND = 1 DIOM.

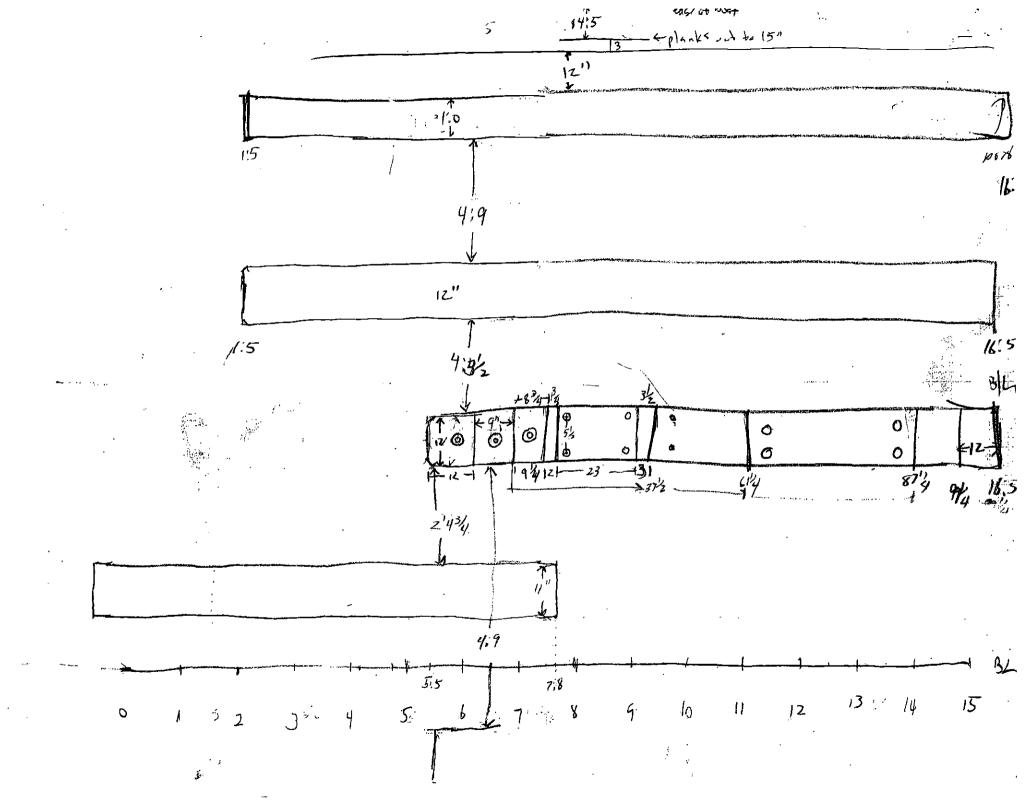
STREET PIND = 1

shorr

3' SINGS U. COURMORYD SITART

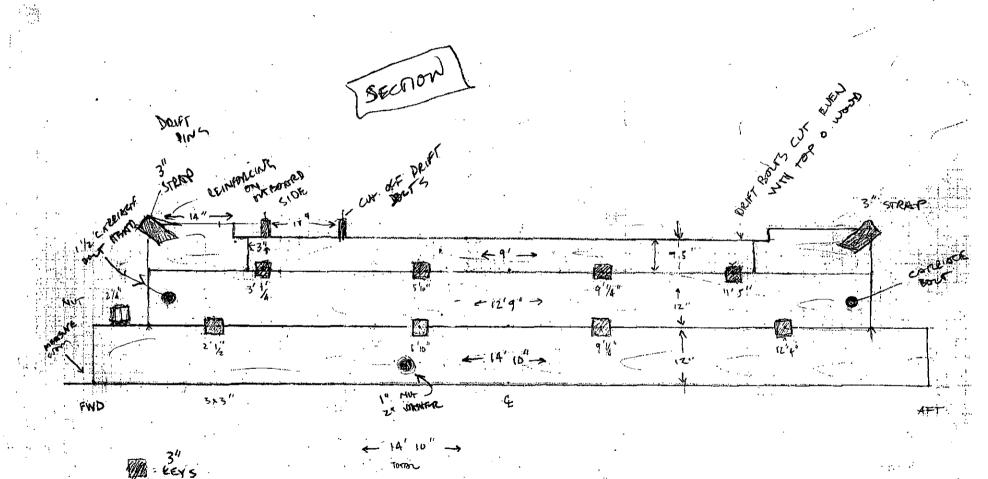
nt's





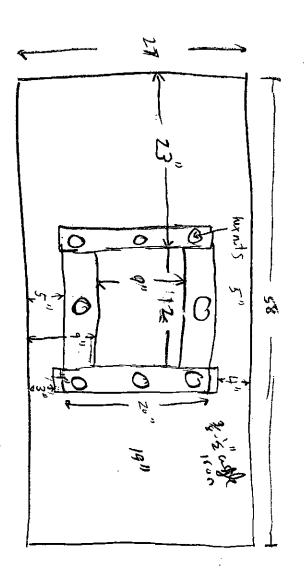
SIX VERSEALS
OUT 26 2004
TOO - JONER "PROME"

DERINGE - NEXTEL 37



167 16

6 versely Jone Ank forward stead tomers, post



### APPENDIX E: VESSEL ILLUSTRATIONS

(see enclosed CD)

#### **APPENDIX F: PHOTO LOGS**

A

# PANAMERICAN CONSULTANTS, INC. PHOTOGRAPHIC LOG

PROJECT NAME: 6 Vessels	PROJECT NUMBER:	V-2-540	oters:	Island
ROLL NO.:	CAMERA:			
PHOTOGRAPHER'S NAME	1 Fausht			
FILM TYPE CIRCLE APPROPRIATE CHOIC	CE): B&W OR COLOR	/ PRINT OR	SLIDE	7
NO. OF EXPOSURES:	FILM SPEED:	tal car	nera	<i>i</i>

NEG# SHOT# DATE    1 8/10/34 There was Hatch in west wing west no	
1 8/10/04 Throward Hatch in west wing west no word with the word deck to this East no	
3	M_
10   10   10   10   10   10   10   10	
NO  S  V  DOC/ HATCH  NO  NO  NO  Side Whiteh of dos Hardle  NO  NO  NO  NO  NO  NO  NO  NO  NO  N	
Sold Worth of dos Hardle 188 North Side Wishot of dos Hardle 188 North Side of Heath Propertish 1864 1864 1966 100 11 8/10/04 South Hatch on west wins west wins 12 8/10/04 South Hatch on west wins west wins 12 8/10/04 11 South profile of small Hatch North North 19 11 South profile of small Hatch North North 19 11 Ock pully plan view of wood deck fitting East No 17 11 Ock pully plan view of wood deck fitting East No 17 11 Ock pully plan view 18 19 11 Stantion step Box plan view 18 19 11 Stantion step Box plan view 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	
DOO HATCH  TO Side Kighot of dos Hardle  North Side of Head North  North  North Hatch On we st wins  North  North Profile of Small Hard North  North  North Profile of Small Hard North  North  North Profile of Small Hard North  North	
Side Mahot of dos Hardle  North Side of H-10 / Luperrish  Morth Side of H-10 / Luperrish  Match Hinge  North Side of H-10 / Luperrish  North	
10   10   10   10   10   10   10   10	
Hatch Hinge  10 POSSIBLE HEACH DODY  11 9/10/04 SOUTH HATCH ON WEST WING WEST WEST  12 8/10/04 HILLDE DETAIL FROM OFTEN DOCK (SOUTH)  13 8/10/04 HILLDE DETAIL FROM OFTEN DOCK (SOUTH)  14 11 SOUTH PROFILE OF SMALL HATCH NOTH  15 11 NOTH PROFILE OF U. II. SOUTH NO  16 11 PLAN WIRW OF WOOD DOCK FITTING EAST NO  17 11 DOCK PULLY PROVIDED NO  18 11 PROX PRINTONDO WEST DEVY DEVINED NO  19 11 STANTION STOP BOX - PLAN WIRW  20 11 STANTION STOP BOX - PLAN WIRW  21 11 PANO 19 MIC VIEW SOUTH EAST 11 TES	
10 8/10/04 South Hatch on west wins west wins  12 8/10/04 Hube Depart From other Dock (south)  13 8/10/04 Hube Depart From other Dock (south)  14 1/ South Profile Of Small Hatch Morth  15 1/ Morth Profile Of 1/ 11 South  10 1/ Plan View of wood dock fitting East NO  17 11 Deck pully plan view NO  18 11 PROX PRINTIPLO - WAS DECK THOUGH NO  19 11 Stantion Step Box - Plan view 1th  20 11 Stantion Step Box - Plan view 1th  21 11 Panoramic view South East 1)  23 11 Stantion Step box Plan view 1th  23 11 Stantion Step box Plan view 1th  24 8/10/04 Workelf - South Step Box Plan view 1th	
12 8/10/04 HILDE BETTIL FROM OFTEN DOCK (SOOT)  13 8/10/04 HILDE BETTIL FROM OFTEN DOCK (SOOT)  14 1/1 Bouth profile Of Small Hatch North  15 1/1 Plan view of wood deck fitting East NO  16 1/1 Deck pully Plan view Plan view NO  18 1/1 PROCK PULLY PLANTED NOTE NO  18 1/1 Stantion Step Box - Plan view HED  20 1/1 Stantion Step Box - Plan view HED  21 1/1 Pano (Amic view South East 1)  22 1/1 Pano (Amic view South East 1)  23 1/1 Stantion Step Box Plan w Box Plan view HES	.•
13 8/10/04 HILDE BETAIL FROM OF THEM DOCK (5000) NO 14 11 South Profile Of Small Hatch North NO 15 11 North Profile OF 11 11 South NO 16 11 Plan view of wood dock fitting East NO 17 11 Occk Pull 12 Plan view NO 18 11 PROCK PULL PRODUCT NO 19 11 Stantion Stop Box - Plan view 160 20 11 Stantion Stop Box - Plan view 160 21 11 Panoramic view South East 11 1855 22 11 Panoramic view South East 11 1855 23 11 Stantion Stop box Plan view 165	,
South profile of small Hatch North HO  15 " North Profile of unit South HO  16 11 Plan view of wood deck fitting East NO  17 11 Deck pully plan view NO  18 " PECK PERTURNS WOOD KEY  20 11 Stantion Step Box - Plan view less  21 n n n n n n n n n n n n n n n n n n n	74
15 " NOTH PROFILE OF U 11 SOUTH NO 16 11 Plan view of wood deck fitting East NO 17 11 Deck pully Plan view NO 18 " PROX PROPORTS WOOD NO 19 " " " " " " " " " " " " " " " " " " "	
16 11 Plan view of wood deck fitting East ND 17 11 Deck pully Plan view ND 18 11 PROX PRANTAND - ROOT DECK TOWNS 19 11 Stantion Step Box - Plan view less 20 11 Stantion Step Box - Plan view less 21 N N N 11 11 // TES 22 11 Panoramic view south East 11 less 23 11 Stantion Step box Plan view less 24 8/10/01 versel - Sound South Sox Plan view VES	
19 11 Deck pully planview NO  18 11 PRIX PRANTIPHS - LEGS PRIX DEVINENCE  19 11 Stantion Step Box - Planview less  20 11 Stantion Step Box - Planview less  21 11 Panoramic view south East 11 less  23 11 Stantion Step box Planview less  24 8/10/01 VESSULI - SOUNT STORE PRAIN BOX From VES	٠
18 11 PRIX PROPERTIONS - LESS PRIX SIDE PRAIN BOX PLAN VES	- `
19 " " " " " " " " " " " " " " " " " " "	
20 11 Stantion Stop Box - Plan view 145 21 N D 11 11 11 11 11 11 155 22 11 Panoramic view fouth East 11 185 23 11 Stantion Step box Plan view 185 24 8/10/01 VESSELLI - SOUTH SIDE DEATH BOX FURN VES	
21 N N 11 11 1/1 1/1 1/1 1/1 1/1 1/1 1/1	<i>,</i>
22 11 PANDIGMIC VIEW SOUTH EGS L 1) TES  23 11 Stantion Step box Plan view TES  24 8/10/01 WOTHELL - SOUTH SIDE DER IN BOX From VES	
24 8/10/01 STEIN STEIN BOX PIGNUISM YES	_
2.4 8/10/01 NOSSEL1 - SOUTH SIDE DEATH BOX FURN UES	1'L
	J 7
27 SHOCKE HOOK LOOSE IN DICK PES	7 -
28 1	
VESSER SOUTH - ANOTHER DEGIN	
0/11/04 Vessel II - Sub deck from ina liest plants it	ES
North plantie	
Deck Repair & exposed wood could East of miles	ر میلی (
11' 23.9 from (1' a. Coop 155 c.	
34 //	シリ
	END YES
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	136/
37 11 11 11 Baseline South Plan Vie	W

Market

NALES

# PANAMERICAN CONSULTANTS, INC. PHOTOGRAPHIC LOG

PROJECT NAME: 6 Vessels	PROJECT NUMBER:
ROLL NO	CAMERA:
PHOTOGRAPHER'S NAME M9H E	1110H Michael Fought
FILM TYPE (CIRCLE APPROPRIATE CHOI	CE): B&W OR COLOR / PRINT OR SLIDE
NO OF EXPOSURES: 36	FILM SPEED: /OO

はないないとうというない

EG# SHO1#	DATE	DESCRIPTION	VIEW
	8/11/04	coupler on pump Drive shaft	North
	/	1) NEGGEN #1	NOTE
4	8/11/04	Packing flanges	North.
5		1)	NOFTE
- 6		. 11	7
7		(1	
8			
9.	•		<del> </del>
70			
· ·			
14	8/14/2002	Joint inhaid wing figure 18th from 1st km	South
15	8/14/2004	object of 14, 15 1 frame	nodl
7.6	* * * * * * * * * * * * * * * * * * *	In brief I marker 176 mg lether	50/th
/ 1		wind in board lying from 17 from 153 km	ninh
18		15th from notch 2nd bear	South
[7		20/ have control \ 12th C	nonh
26	· · · · · · · · · · · · · · · · · · ·	inplier Paragraphy man book	1.
21		1 1 1 1 Decent	hown
22		by tkheed by rane 16	Sunth 1/5
23		upper dick bem rembicant Ktham	(= 54 F
24	<del> </del>	uppedick frank to Hum 13th Frank	No.
25	+	with pipe, get value motor	
26		general view, insile in shore 7nd begin	horal
27	<del> </del>	imple (Onve shoft from dotal), 7, I bec low	
28	<del></del>	2nd han Journ detail - Laster datal	Wesy )1
79	<del> </del>	(1) (6) ( ) ()	
36	<del></del>	at board Pains figur detail main dick level	lowh _
71			1)
32	<u> </u>	vertial exterpies months leter	nydh.
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33	<del> </del>	ride timber deal	north
	<del> </del>	what for my some dital bh main + 1st be	
35	<del> </del>		<u> </u>
3/2	<del></del>	pre-lange dis 1 1/n Claris 14+13	down
		Foster detal 12th forme	
m.			-

7

#### PANAMERICAN CONSULTANTS, INC. PHOTOGRAPHIC LOG

Aux Tryth

PROJECT NAME: ( wes solo ROLL NO.: 3	PROJECT NUMBER:CAMERA: 5+W	A frames in figuration of plant of min
PHOTOGRAPHER'S NAME And		12 × 5
FILM TYPE (CIRCLE APPROPRIATE C	HOICE B&W OR COLOR / PRINT OR SLIDE	
NO. OF EXPOSURES:	FILM SPEED:	

	NEG#	SHOT#	DATE	DESCRIPTION	VIEW
	;	1	9/14/2004		donn
1		2		Just ledal, orthorn many 13th	30 7h
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$\Vdash$		4			
$\vdash$		5	<u> </u>	Ь	6
			<u>.</u>	3 de yalu contolid fland 1st hem	Sasida
$\mathbb{R}$		7	· · · · · · · · · · · · · · · · · · ·	wested contilled the fame	northest
╟	,	<b>B</b>		KNK faster patrin mindicher, 13th from	भूतु
╟		10		elect, conduct and roller by n 12+13 fine -	45
╟	· ·	1,	1 5	geteratur ditail	down
H		12		Via of cond his man + tolon feen french	huth
$\vdash$	<del></del>	.13		stoputers on war frame intend 15th Fram	Sorth
-		14	4	ravised bolts, him from, 13th from	Koor
		15		Impoller shift or house	west
	· .	16		wtlet pros bly 10+11 from.	ness
		17		bracket	nest
		18		ग्रंथंट कि ( न्योन्स	14257
		19	•	piece otrail	west
1		ŹΟ		dior from large hotch	4.85V
	·	21.		Stan pile on dick	lulp
L	·	22		de rois lifting Threes	Lown
H	· · ·	23		ditional medundick - 11	dun
		24	<del></del>	Atrovited dick Citian	Luni
ŀ	·	<u>2</u> 5,		leterroused block 11/11. 11ian stor tock	Rock
-		26	·	portskin wing show, looken king nots	5W
$\vdash$		27		Smill G61 poit Glum witch	west.
$\vdash$		<del>28</del>	·	leighted, sort wing	WSX
$\vdash$		29	<del></del>	under hockets slbd aft	SULTÁ
$\vdash$	<del>:</del> -	30		delt hout	10/10/
$\parallel$		32		pilly in lock	down
$\vdash$		33	<del></del>	through tick titles, passible went	down
$\parallel$		33	<del></del>	dital of screen in fill	South ear
$\parallel$	<del>_</del> —	35		den of dichers 3.4+5 who most side	Sorth
$\parallel$		36		Ida 15 Aug hens 3.4+5 who most side	eas
-	<u>.                                    </u>	37		The time of time of	50/20/
Ł		<del>_4</del>	<u> </u>	SHAL GOLD COLINE	east

0.00	y			
(Rol) 4	\$ 1 2 8	Dak	Docuption fine + check, fine +1, foster phtill wing but had 1/n fines ++ 2 wher sthe fines, chocks +long. shalf.	View East west south
	1456	-	Maindeck beam to aduck holl frame joint frame 2nd frame, apper bean ties point of testourpothern 4th frame, trust saint will chack	2 & S W
	9 10		now shows betteres, chocks, fromes outhor har plank edge drifts rate but about the post, from some out all longitudinal but the D-wing	dour home
	1) /2 /3		raftmo bit port find VI forwark kin nost so port find VI 1=Ambit	north
	14 15 16	Å	GA knops of set, port Rul, VI raftished reftmo log, stall truss data / Standard 235'on offset, port fives & bulkhaldedail, truss I-large orch, also the	north
	17 18 19		tives, + stanchion dtail, ca : 25-30" on bottes, also the dobal of trues junction paid sile a 4th from	, Pedica notte
	20 2) 22		bus post ford from dite. \ stbD	eas)
	23 24 25		3rd long-bulkhed 2 of Frank maintruss stanchion detail	W 5
,	26 27 28		kno post framo delas!  Lin post framo delas!  Impeller, stolwing VI	6
<b>Q</b> oll #	29 30 31 5_ <del>4+</del>	:	y and outled ppl, sold uno, VI pipe	e
<b>Q</b> (1) <b>5</b>	7 4 3	•	ather little showno, 13 Impeller housing	ne

30 - DIHO

1 - WEST FACE OF DRY DACK - VIEW to esst 2 - LEAD REPAIR PATCHES (ON WEST FACE) - UNEW to earl 3-close up of patch (over seam) . view to east 4. Through-hull pump flange. View to exst. (port side of UZ) 5 - Ditto 6- Ditto 7-NU corner of VZ With Hzogress . View to southeast 8-Closeup of NU Corner & Maguege. Vias to SE q. View to cost of the north face of V2 (note scarphs) 10-view to sw of face - note scarph joint. 11- Scarph joint on North Face of UZ - Viro to South 12- Longitudinal supports til on main deck - User to south 13. Scarph joint Close of on North, face of UZ - View to 500th 14- Chine timbers (2) & iron procket on NE face of VZ 15 - NE Wing OF UZ - VINU to SE 16-NE wing/corner of VZ - note secreticist plants 17- Closeup of corner construction. view to 525th 18- Spud construction on NE corner of UZ - view toward 19- Value ( though hill) on erst Side of Vz - view to west Zo-Dito - Close-op W. Ditto 22-55 Spud frame Viral to west 23. View west rlong south free of UZ. 24-close up of value on east side of V2. 23. Ditta 26-wood frame ground value - view to west 27- Spud on NE correr of UZ - Viru to NU 28 - VICO WEST down north face of UZ. 29. Ple of SW corner OF VZ W/ risk sheeting

3. Scalph on North face . VIEW to routh

#33 - Andx recording Chine Construction - view to east (U1)

434. Faught measuring repair patch on NE Corner of VZ

#35 - pump boy of writing (unititelligible) view to east

#36 - From bracket for Clemping down Connecting timbers between duy dock Sections. (on V2)

End of Roll # 6

ROH # 7 (Blw 35 mm) 8-12.04

#Z- Close-up of iron bracket fastening hale on Uz

#3. Spud assembly on NE comer of UZ

#4. Ditto

#3-Chine assembly on SW corner of Uz . Viras to NW

#le-Longitudual deck Keelsons (5) of Uz. Note Sacraficial planting

#7,8,9 - Panaramic. Shot looking North of UZ (with fright elliatty Duff, bydecker).

#10- Scarph on Southern face of Uz - View to north.

#11 - Spud Assembly on SE corner of UZ - viru to NW

#12 - Ditto

#13 wood from for outflow velve

#H verted value on NE converse UZ view to NW

EB. exhaust stick on East wins of uz - view to west

\$16-Transverse iron gife that empty into wing section - view to wast

#17- Iron briefeld on NE corner of UZ . VIEW to West

#18 - Corner construction on NE course of UZ - view to south

#19,20 - Spud box Tension rods - class UP of end nuts.
NE correct of UZ

#21 - Elliott, Frught Stringing begline type - View to west

#22. burned NE corner of V2 (W/ Spod) vired to NW

#25 - burnt SE corner of UZ(W/SPUZ) VIEW to SU

#24 - bornt center section of UZ - View to W.

#25- Vins bulklar (burnt) on cast wing - view to wort

124,27 - transverse bulkhead/outer hull festering pattern (w/+ spe vneasure) view to west.

#28,29. wood Chock w/ through pipes(2) for drain? View to

#30 year to north clour est face of U2 note wood exhaust!

#31 Close-up of SE spud box assembly.

#32. Closeup of corner construction @ SE corner of UZ
View to North.

#33- Shot of corner "petch" on SE corner of UZ - view to worth #34/#35 - waterline Shot between U1 + U2 doied to west PJ) #8 6resslo 12 9/19/2004 A. Lydedu

Destrolion stbl, 4th Time 4th Standion Smaple as 2, Shamo ende and plant pomo ia). 2 Ky pool detail showns collar mounty holds sincedethal 3 munt both letail closed accentile poliside 9+4+10+4 frame ender of dick pour poth frame, port site 6th Stochin Hzil the fine, ports, de poil former D rating b. 6 bolow bek ferring late. 1 19th holder I port ford 10 1) 17 12 portisile looking aft 13 lick, wind bit that me, portsile 14 15 W 16 leckforms poit and ) & Ì 6th Stanchion detail W سر ه 21 22 23 24 the rod bolt deful 4th born, just inboard of 1st bilkhord. 25 Deck rider festerer patrin, 4th rider 26 27 28 12 th bem, fisher-detail 7th stanchion 4018h apposite end (ful) of 128h ben 74 stand om for the dolar

# PANAMERICAN CONSULTANTS, INC. PHOTOGRAPHIC LOG

PROJECT NAME: Le vessels	PROJECT NUMBER:			
ROLL NO.: 9	CAMERA: 35 mm pentax			
PHOTOGRAPHER'S NAME NC 14				
FILM TYPE (CIRCLE APPROPRIATE CHOICE) B&W OR COLOR / PRINT OR SLIDE				
NO. OF EXPOSURES: 36	FILM SPEED:			

EG# SHOT	# DATE	DESCRIPTION	VIEW
3	8.19.04	Duff recording menhadom bocu	E
3_	11		<u> </u>
- ၂	.1	Bow repair (wimessuring lape) Stan Otta	<u>-</u>
5		Ste Ita	.E
6		5th scars hour cholders.	
7		both hil Many Lastner motion	E
8		Ineu hail plant " " Stholy.	F
<u> </u>		Kill plank n n sthell	E
JO		fami hellplank n n 2	
		Iron cap on which is Stad	Ê
12		stodes do lake at from bow	T E
13		11	E
14-3	) .	how have	W
3)		man dock ford.	<del>                                     </del>
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erikira.

	<b>J</b>	•	
Roll #	8 Description	View	
32	Forward Cobin	From Bow Look.	s Aft
33	Bow Chock Starboard.	_South	
34	Top of Stem	50.AL	
35	Stem fastener Patern.	50AL	
36	Gunwale/Stan Join (546)	Soiste	
37	Deck at Bow/Stem	South / Forward	
End	of Roll #8 Black and	White "Thax 100"	
Beain	Roll # 9		
1	Deck Plank to King Planks	South	
2	Main Deck Looking Aft	York Wash	
3	King Deck Plank Fastener Batter	en	North
. 4	Main. Deck 5th. Deck Plank Detail		South
5	. 6th, Bulwarks at Bow	Soponia.	South
. 6	Fwd King Post	السندية المساور	East
7	Pilot House Base (546)	**Baccount**	South
8.4	Pilot Hause Base (516	Special State of Stat	5064L
9	Steering Mechanism	And the second	-Novth
10	Steering Mech. Side View		East
11	Deck fittings Eyec/Pipe/Chain/	Paint	North
21	Deck Plank Fastener Potter / c115'	on Baseline	South
. 13	Turubuckle on Deck Baseline	c,116'	Down
14	Fateur-Patern or Wood Plugs	c 117'	Down
15	Square Hobe in Deck Sty.	c.114'	West

Photo	Log Rol	1#9 4	out in well
Shot#	View	Baseline	Description
16			t. Hatch in Wheelhouse 545. Side
17	11	r.	the many the second second
18	North	c115'	Deck Plank Joint Pottern
19	ŧι		u u u
20	South		Carner (St6/Aft) Detail of Pilot House
21	ų		(c -11 11 -11 -11 -11
22	East	<del></del>	it is in a sp
23			Mistake / Fubar
24	East		Pilot House Aft Base
25	East .		Mast
26	East	c72'	Deck Fittings
27	Nooth		Hatch Combing Food Face Gargo Hatch
28	North		Corgo flaton
29	East		u Corner Dutail
30	ι(		u u Combing
31			11 11 Fastener Pattern
32	North	c28'	Round From Drek Hotch Stb Siche
33	No.75		5+6. Cunuala Ropair Detail
34	11		" (Wholp)
35	West	c 160	Deck Rail Bose Stb Side
36	11		Deck Rail Hade (directly Above #35)
-33	North		Scarf in Gunwhale Top Plank
- 37 - End c	of Roll #	9	·

•

Photo L	-09 Roll#	10 B+	J ASA100 THAX
Shot #	View	Baseline	Description
Ì	West		Eyebolt w. Ring 5th. Gunwale at Gnawale Scort
2	west _		Erbott w Henry Care Wive Rope
3	XX	$\times$ $\times$	FUBARBA
4	West	<u> </u>	Hemp Care Wire Rope Dotail
5	North		Quarter Deck 5th End Dotail
6	North	<del></del>	Quarter back Forward End
7	North		Circular Steel Deck Hatch, Open, 5th Side
_8	Down		5+6. Gunualo Fastaving Pattery
9	North		Quarter Deck General View Aft
10	North		11 " Gurwole Interface
11	tt		11 11 11
12	West		indu u Detail
13	West	·	Paint Detail Food End Quarter Deck Roiling
14			5tb. Deck
15	"		Stb. Ganwale looking Fund
16	_ West	<u>.</u>	Salvage Damage / Hole in cleck
17	West	Anna da	Guivolo fasteuros
18	East	<del></del>	Aft Cabin Fud/Stb Corner Dotail
19	North		Quovtre Deck Railing
20	Li list		Rub Rail
21	South		Bollard
22			Railing Stile 5th Adeck
23	South -		Deck Fitting, unknown
24	_south_		General View Forward From Q-Dock
25	<u>-</u>		Deck Fithins #1
26	North	<del></del>	Q. Deck Dock Plank Fasteuer Pottern
<del></del> 27	West -	_c46'	Deck Eye Bolt
28	<u> </u>	· ·	Fabarba
29	West -	44	Remains of Salvaged Deck Fitting
30	West		Charter Dock Railing Repair
<del></del> 31	-North		Detail
= 33+3H	432 +36 North		off Find Davit Base
37	North		Crew Workina

# PANAMERICAN CONSULTANTS, INC. PHOTOGRAPHIC LOG

PROJECT NAME: SIX SWIPS	PROJECT NUMBER: 24 242
ROLL NO.: 11	CAMERA: BIN 'S DIGITAL
PHOTOGRAPHER'S NAME NVE ' M	
FILM TYPE (CIRCLE APPROPRIATE CHOIC	CE B&W OR COLOR / PRINT OR SLIDE
NO. OF EXPOSURES:	FILM SPEED: /OO

NEG#	SHOT#	DATE	DESCRIPTION	VIEW	<u>.</u>
	Ī	8/23/04	Bad shot	East	
	2	8/23/64	Bad shot	East	
	3	R/23/02	Fairbanks morriss Engine	GC 51 -	vesse/ 33
	9	// .	.1 vessel 33	11	
	<u>り</u>	1/		North-A	4
	6	11	reversely on boat	west	,
	7	//	Panorama of Boat	we51 .	
·	8		//	/!	
	9	11	stern photo	North west	
	10			*West	
	17			1/	
	12	//	Transverse Bulk Head	Wast-Interior	07 773 (DEE M
	14:			17,	
	15	//. //	Davit Eraming starboard subdeck	West ""	
	16	12	7/		•
	17	1)	Francis Details subdeck starboardside	Fore South	•
	18	11			
	19	// .	Suffacks on part how	West	~
	20	1/	landidizat a su in the		
	2/	1/	Lors: fed in Bow sta-board side	North	
	22	11	Hatel in Foredeck part Bow		
	23	1/	11	00wn	
	24	11	1)	¥	
	25	// .	Vertical Stanchion Foreword Hold	south	
	<u> </u>	81.24/04	Fags Frolicking on the Bow	SOUTH WOST	
<u> </u>	27	(1)	Center point of steering Arch	Down West	
<b> </b>	28	· //	11		
	29	(1)	1/		
<del></del>	30	1)	17	Down / Sout	k l
<u> </u>	31	- 1/	Detail of arch port spoke	DOWN/UCST	
<u>-</u>	32	1)	center spoke Fystner	Down / NOTTA	]•
ļ	33	,)	Firstor Starboard side spoke	Down/west	
<del></del>	34	1)	Stalboard coble stearing mechanism	Down/west	
<b>  </b>	35	- 11	<u> </u>	17	
<b></b>	36_	1)	Planuiew of Stein	1)	
L		•			

## PANAMERICAN CONSULTANTS, INC. PHOTOGRAPHIC LOG

	PROJECT NUMBER:
ROLL NO.:	CAMERA: Vishica TY
PHOTOGRAPHER'S NAME faight, Lyd	ecko
, .	E) B&W OR COLOR / PRINT OR SLIDE
NO. OF EXPOSURES: 36	FILM SPEED: /OO

NEG#	SHOT#		DESCRIPTION	VIEW	
	T	8/25/04	Thru Holl Etting bown 62-63 Francs	East / charbook	ster p
	2	11	//	//	,
	3	44	Iron piete storbood stern 66-67	East / Ato, Sould	1 sie
	Ý		Rub Rail starboard sterry	East / "	U
	5	17	eta. II	17	
	6	l)	Stein of Crish Hawk	50046	
	7,	11	Port Bow cant Frames	west	
	8	. 12	FIHOCK 3 11 11 port BOW	Light	
	9	1/	Futtock 2 port Bow	west	
	10	1) :	Stockbide Futtock Flore set 26	west	
	. 11:	11	Horsond Side Hull	West.	
	12	$n = \frac{1}{2}$	rigging Element Starboard Sille	W05t	
:	13	11.	Iron Plate port side	605t	
	14	<i>U</i>	Starboard Frame 42	East	
•	15	/)	Extock Fostier Atten signe 42	17	
	16	11	They Hall mater us 7 starboard 55de 464	(1)	
. :	17	. //	Rail Buteress	11	
<u> </u>	48	1/	Outer Hull Butplank From 3) 41,16,000	11	
•	19	1/	MISSING FUHOCKS STURBORD SIDE	11	
	20	11	Notich of Futtacks Frame 28 Sturboard side	11	
	21	<i>"</i>	Fastening pakern + thru Hole on D.B. 15	11	5-t 4 rb
	22	1)	Port side thru deck steering	11	-
	23	11	11.	wast	
	24	1 1	Fags Crolicking on Deck	west	
	25	17	Fore - shot or Hold	2.7	
	26	11	center-snot of Hold	$\overline{\mathcal{D}}$	•
	27	11	Aft- shot Of Hold	17	
	28	17	Ladder in Hold	North	
	29	//	prit side man hich dick beams		
	30	11	File and of man high stown standings	<i>Ε</i> 5	
- ·	3)		ast cabin fanny detal	2	
	32				
	33				
•	34	U	- No.	4	
	36			In	
	36		Ţ.	1 3 N	
	37		ungine lowbor don of	n	l

# PANAMERICAN CONSULTANTS, INC. PHOTOGRAPHIC LOG

PROJECT NAME: 6 WSSels	PROJECT NUMBER:
ROLL NO.: 13	CAMERA: Vashra 74
PHOTOGRAPHER'S NAME Lydester	
FILM TYPE (CIRCLE APPROPRIATE CHOI	CE) B&W OR COLOR / PRINT OR SLIDE
NO. OF EXPOSURES: 34	FILM SPEED: /OO

NEG#	SHOT#	DATE	DESCRIPTION	VIEW
	<u> </u>	8/25/04	below dell fammy lety is ca. frame 50	low
	٦,	1 ,	7	Port (25)
	3			a5\$(n)
	4		bracket	down
	5		der movet below deel	down
•	Ļ		mon decte from , aft dans	N
	7		ensine bikhil assair ald altabia	Ś
	_8		ensite, bither, as fore and cit when	3
	9		bow Views, including fish painting	2
	10			
-	7)	l		
	12			
•	7			
	14			
	15			
	16			
	-17		·	1
	18		* 1 <del>4</del>	I 1
	9	<u> </u>	<u> </u>	7
	20		A steering wichenism detail	re
	2)		steering withousen detail steering detail, other side under toles for steering gear, sither whethe ilmer holes for ofernogen	e
<u> </u>	22		under holes for steer near started whether	50 N
	27	·	Umber holds finden con	2
	2.5			5
			details 1 24 × 25 shown are	S
	26	<u> </u>	steen year hote in quarticluse bilkhed	n
	27		steen gear hate in quarticluse bilkhad steen gear hate	n
74 2	28	1	manhach exprest mount, & fore	3
	25		n QAT	4
<b></b>	50		Morgil Joint Cafe Bon 28	W
<u> </u>	37		ortigit juin likel ca born 28	W.
	32	<u> </u>	shinglat sthe carbon 23	e
	43			<u>e</u>
	34		4	e
	33	<u>  ·   </u>	chan Note moverty both down for grande	
	, 36		hammer line	9(4(n)
N.	37	4	mast ca, deck ben 27 framing lita,	e

#### PANAMERICAN CONSULTANTS, INC. PHOTOGRAPHIC LOG

PROJECT NAME: 6 VLSSAS	PROJECT NUMBER: 24242
ROLL NO.: 14	CAMERA: Yashica Tay
PHOTOGRAPHER'S NAME Lydouw	
FILM TYPE (CIRCLE APPROPRIATE CHOIC	DE B&W OR COLOR / PRINT OR SLIDE
NO. OF EXPOSURES: 36	FILM SPEED: TMAX   00

EG#	SHOT#	.,	DESCRIPTION	VIEW
		9/25)04	raily and cap detail	k S
	2		raily and case data,	S
	7			
	5	_		<u></u>
	6	-		
	7			
	9			
	9 .	4		V
		8/26/04	Verious Stern Shots	5
	10			
	11			
	12			
	13			
	14			
	15			
	16			
	17		<u> </u>	
	13			<b> </b>
	19	1.	Bottom Butt Plank Patch	É
_	21	C) lackel	Ashan Can Olan V 1 01-1-	11.01
	23	7/26/00	steering Block + Chain	west
		<del>                                     </del>	1	<del>                                     </del>
	23	<del></del>	1.	<del> -\/</del>
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27th OCT 2004 SIX VESSELS

SCR COMPANY - SERSEY CITT, N.C.J. - = TBRICK BY LEVERS

N OI

LEVER SYSTEM - DREDGE BY MANNHADORN TROULER

BOW = EAST END

121/2" WIDE

II LEVERS - COARSE; FINE GEARING -
FROM PORTSIDE C
```

C F C C F C C V. CORRER.

#### PHOTO LOTE - VESSE/#37 Oredge

1 LONGING SOUTH - LENERS

2 11 11 - LENERS

3 11 East - Levers

4 11 North - Levers

5 11 North - Levers + Brick Plan view facing Worth

6 11 East - Brick + Levers

7 11 West - 11

5th Find Iron Support South West Machinery Support Chamfer Enst Machinery Supports Support Key Detail: Iron Clamp on Marhinery Support 8 west 9 South Misc. Machinery betw. Machinery supports 10 ՝ પં 11 west 12 c. S.E. .13 South

coutinued on Reverse

Photo		
<del>\</del>		ſ
14	East	Dredge Mechanism, Bow Port
15	$\varsigma$ , $\omega$	" " " 5Hb
16	$s.\omega$	Dredge Center Pipe
17	East	Control Lever Detail
18	N	y u u
19	ti .	a u .
20	ц	y u u Handle
21	North	Aft toward Engine/Boiler Bed
22	Down	Brick, " WW CO"
23	Down	" J.C.R. Co."
24	· ti	Drive Belt, Coiled on Deck
25	U	u " " " Rivet Detail
26	ti	Misc. Elect. Pieces
27	North	Central Machinery Hount Chamfer Detail
28	East	Machinery Support Timber Key
29	. Down	Vice .
30	East	Winch Drum Scoring, Side of Machery Support
, 00°	н	R H H H H H H

10/27/04 Vessel #37 Dredge Photo Log Disital Camara Direction Frame - 39south - Levers E95+ -Levers 38-37-North -Levels \*West -Levers 36-35- West -595H North = 33-North = 32 west NO144 -31-Fags Frolicking on Deck No Cth-30-29-

# Roll # 16 Vessel 37 27 Oct 2004

: #		
1	North	Dredge Pipe Charge) Interior of Versel
2	N.E	Collapsed Structure, Aft End
3	South	Dredge Well at Bow
4	South	Machinery Supports
5	Down	Hemo Core Wire Rope
6	south	Dort Quarter
Ž	North	port quarter & machinery
8	North	11 11 11 11
9	south	pork yoke
10	south	Inboard Starboard Machiner + 10 Botu
1/	South	panorama of Starboard quarter bow
12	<i>''</i>	
13	South	Stem to stern
14	<u>e</u> 957	crare or A france
15,	East	Base of spud
16	NOTH	Scooner
17	East	Starboard Stern Soud mechanism
10	E954	starboard side of vessel
19.	East	n = n + n + n + n + n + n + n + n + n +
20	:NORTH	BET FUD POWDROMD - W FD E X3
21	NORTH	
22 23	North	prive mechanism for cutterlead
24	<i>()</i>	$=\frac{11}{2} + \frac{11}{11} + 11$
25	11	
25	_ <i>11</i>	n = n
27	<i>)</i> )	
28	YOKE OF	port side of through Bow
29	<u>ک</u>	1 / 3/0
30 31	. W W	buck ple
32	W	60.67
. /-	<b>~</b> ▼	

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10/28/04 photo Log on Farsht's camara Vessell 36
                    Direction
     PORT BOW
                      East
     2 Port Bow
                     South
                     South
     3 Starboard Quarter
                     South
     5 Port TOKE
       panorama of starboard quarter in the bow
       Stern to Stem
     19 A or Grane Frame East
     10 Base of soud East
     11 scooner
     12. Starboard Stern soud mechanism E95+
     13, starboard side of vessel
     14.
                AMASONA CHAST FAR - ATTOM
     17
           11
                              11
                                     ı)
                prive mechanism for cutter head
           17
     19
                         //
           11
     20
     2)
          11
                 11
     22
          \mu
                                       throught BOW
```

TOKE ON port side of

#### APPENDIX G: SECTIONAL DRYDOCK PLANS

(see enclosed CD)

### APPENDIX H: J. HOWARD SMITH COMPANY VESSELS

#### J. Howard Smith Company vessels owned (Sources: Annual List of Merchant Vessels and Steve Rogers).

Official No.	Туре	Name	GT	NT	L	W	D	Year Built	Where Built	Crew	HP	Company	Home Port	Year Bought
15098	screw steamer	Ocean View	108	35	91.8	17	9.2	1884	Noank, CT	27	150	J. Howard Smith		1934
115647	screw steamer	Sterling	143	97	110	18.1	8.8	1879	East Deering, MI	20	325	Harvey W. Smith		1936
208447	screw steamer	Stephen W. KcKeever	223	104	128	22.2	10	1911	Noank, CT	25	325			1939?
208613	screw steamer	McKeever Brothers	223	104	128	22.2	10	1911	Noank, CT	25	450			1939?
286511	screw steamer	George P. Squires	218	137	142.7	22.7	8.8	1900	Baltimore	28	164	Fisheries Products		1933
208447	oil screw	Stephen W. McKeever Jr.	223	104	128	22.2	10	1911	Noank, CT	20	300	Otis Smith		1934
208272	oil screw	Edward J. McKeever Jr.	223	104	128	22	10	1910	Noank, CT	20	300	Harvey W. Smith		1936
223087	screw steamer	Elias F. Wilcox	329	164	139.1	24	11.6	1923	Noank, CT	34	600	Harvey W. Smith		1936
235089	oil screw	J.H. Whitehurst	149	37	001	21.9	8.9	1936	Fernandina, FL	15	240	Harvey W. Smith		1936
231225	oil screw	John L. Lawrence	229	150	157.8	21.2	10.6	1877	New London, CT	20	500	Harvey W. Smith		1936
140227	oil screw	Luce Brothers	144	39	114.3	18.9	8.9	1877	New London, CT	20	210	Harvey W. Smith		1935
223553	oil screw	Parkins	133	40	107	23.6	8.3	1923	Pocomola City, MD	22	200	Harvey W. Smith		1934
115647		Sterling	143	97	110	18.1	8.8	1879	East Deering, MI	20	210	Harvey W. Smith		1936
236189	oil screw	Charlie Mason	180	36	113.1	21.8	9.1	1937	Fernandina, FL	15	240	Harvey W. Smith	Brunswick, GA	1937
236319	oil screw	Mary Ellen	180	36	113.1	21.8	9.1	1937	Fernandina, FL	15	240	Harvey W. Smith	Brunswick, GA	1937
208410	screw steamer	Rowland H. Wilcox	247	119	132	22.3	10.7	1911	Noank, CT	32	450	Harvey W. Smith	New York, NY	1937
		Benjamin L. Bishop	151	36	97	21.7	9.4	1936	Fernandina, FL	20	240	Harvey W. Smith	Fernandina, FL	1937
237525	oil screw	Promised Land	184	47	118	21.4	8.6	1938	Fernandina, FL	22	275	Otis H. Smith	Fernandina, FL	1938
237323	oil screw	West Beaufort	119	36	88.8	20	6.8	1938	Fernandina, FL	20	240	Harvey W. Smith	Fernandina, FL	1938
237665	oil screw	Port Monmouth	119	36	88.8	20	6.8	1938	Fernandina, FL	20	240	Otis H. Smith	Fernandina, FL	1939
240730	<del></del> -	Charles Herbert Rice	148	54	106.9	21	8.5	1941	Reedville, VA	23	300	Harvey W. Smith	Reedville, VA	1942
240744		Silver Star	144	50	99.5	20.2	8.3	1941	Beaufort, NC	19	220	Harvey W. Smith	Reedville, VA	1942
216580	oil screw	Lancaster	143	34	109.4	19.9	8.4	1918	Weems, VA	23	100	J. Howard Smith		1932
105768	oil screw	Annie L. Wilcox	158	38	127	27	7.5	1905	Camden, NJ	10	375	J. Howard Smith		1934
277139	oil screw	John Twohy Brusster	121	37	105	19.5	8.5	1894	Pensacola, FL	7	210	J. Howard Smith		1935
226167	oil screw	Doswell S. Edwards	93	39	77.3	23.6	7.3	1926	Kayan, VA	6	120	J. Howard Smith	New York, NY	1937
229816	gas screw	Artemis (ex Dorothy)	20	13	47	11.2	5.1	1930	Algonac, MI	l	500	J. Howard Smith		1942
	oil screw	Fernandina	119	36	88.8	20	6.8	1938	Fernandina, FL	20	240	Atlantic Navigation	New York, NY	
242052	oil screw	Mispillion	143	48	93.7	21.9	7.3	1942	Reedville, VA	20	220	Atlantic Navigation	New York, NY	
211424	screw steamer	East Hampton	407	208	162.8	26.6	12.7	1913	Rockland, ME	35	900	Smith Meal	New York, NY	
222067	oil screw	Little Joe	250	75	134.3	21.7	10.9	1922	Weems, VA	30	300	Fish Products	Reedville, VA	

Official	Туре	Name	GT	NT	L	W	D	Year Built	Where Built	Crew	HP	Company	Home Port	Year Bought
No. 218334	oil screw	H. R. Humphreys	211	48	126.1	20.7	9.7	1919	Weems, VA	37	300	Fish Products	Beaufort, NC	Dought
	oil screw	Swanson	154		109.4		8.4	1918	Weems, VA	20	200	Fish Products	Beaufort, NC	1
211345	screw steamer	A Brooke Taylor	295	130	146	23.3		1913	Wilmington, DE	28	450	Menhaden Products	Reedville, VA	+
223556	oil screw	Annie Dow	241	45	134.3	21.7	10.8	1924	Weems, VA	30	400	Menhaden Products	Reedville, VA	<del></del>
216453	oil screw	E. Warren Edwards	231		125.2	21	10.2	1918	Milford, DE	8	300	Menhaden Products	Reedville, VA	1
85527	screw steamer	G. S. Allyn	211	136	150.4	20	10.7	1878	Mystic	10	600	Menhaden Products	Norfolk, VA	
96610	oil screw	Helen Euphane	168	62	112	20.4	9,3	1902	Pocomoke City, MD	30	380	Menhaden Products	Reedville, VA	1
130733	oil screw	Northumberland	167	99	134.2	20.2		1897	Pocomoke City, MD	9	450	Menhaden Products	Reedville, VA	
208805	oil screw	W.L. Messick	326	75	131.8	23.5	12.5	1911	Norfolk	30	600	Menhaden Products	Reedville, VA	
209911	oil screw	Wilbert A Edwards	343	94	143.4	24	11.6	1912	Solomons, MD	24	600	Menhaden Products	Reedville, VA	
239265	oil screw	Damyank	47	23	61	18.3	5.1	1939	Sturgeon Bay	5	300	Atlantic Navigation	Wilmington, NC	
233800	oil screw	Rebel	14	11	43.7	14.4	5.4	1938	Jacksonville, FL	2	180	Atlantic Navigation	Jacksonville, FL	
218514	gas screw	Deuchland	45	38	75.3	18.2	4.9	1919	Morehead City, NC	21	60	Beaufort Fisheries	Beaufort, NC	
141719	gas screw	Leland Mills	52	42	79.8	18.7	5.5	1901	Cambridge, MD	14	100	Beaufort Fisheries	Beaufort, NC	
224343	oil screw	Lloyd T	22	20	56.4	16.2	3.4	1924	Bettie, NC	11	60	Beaufort Fisheries	Beaufort, NC	
141729	gas screw	Lorena D	16	13	48.8	15	3.3	1901	Beaufort, NC	3	120	Beaufort Fisheries	Beaufort, NC	
204756	gas screw	Reaper	22	13	51.6	16.3	4	1907	Smyrna, NC	12	20	Beaufort Fisheries	Beaufort, NC	-1
224904	gas screw	Татра	14	11	42.1	12.4	2.9	1925	Stacy, NC	6	20	Beaufort Fisheries	Beaufort, NC	
	oil screw	Virginia Bell	33	20	57.7	16	5.2	1923	Amburg, VA	10	100	Beaufort Fisheries	Beaufort, NC	
225174	oil screw	W. A. Mace	80	56	87.1	20.3	6.8	1925	New Bern, NC	18	100	Beaufort Fisheries	Beaufort, NC	
205060	oil screw	Golden West	14	9	43.9	14.3	3.6	1908	Almatos Bay, CA	l	125	Marine Products	San Diego, CA	
248128	oil screw	Shoal Harbor	193	98	120.5	20.5	9.2	1945	Beaufort, NC	20	265	Harvey W. Smith	Beaufort, NC	
236189	oil screw	Charlie Mason	180	36	113.1	21.8	9.1	1937	Fernandina, FL	20	240	Atlantic Navigation	New York, NY	
236319	oil screw	Mary Ellen	180	36	113.1	21.8	9.1	1937	Fernandina, FL	15	240	Atlantic Navigation	New York, NY	
240682	oil screw	Capt Fred	21	11	48.4	16.8	5.5	1941	St. Augustine, FL	4	80	Fish Meal	Beaufort, NC	
241067	oil screw	Romie	29	11	48.2	16.7	5.6	1941	St. Augustine, FL	4	80	Fish Meal	Beaufort, NC	
248147	oil screw	Fearless Fosdick	10	7	38.6	10.3	4.7	1945	Beaufort, NC	2	88	Harvey W. Smith	Beaufort, NC	
164390	barge	O.D. No. 34	353	353	90.3	28.9	6.9	1911	Suffolk, VA	1	0	Menhaden Reduction	New York, NY	
201093	oil screw	Amanda Bishop	57	15	73.2	20	6.2	1904	Patchogue, NY	4	100	Harvey W. Smith	Beaufort, NC	
245903	oil screw	Belford	149	48	113.9	21.1	7.4	1944	Beaufort, NC	20	540	Harvey W. Smith	Beaufort, NC	ļ.,
218277	oil screw	Elizabeth Edwards	97	26	82.6	21.6		1919	Greenport, NY	24	180	Harvey W. Smith	Beaufort, NC	
252204	oil screw	Escatawpa	137	93	95.7	22.9	7	1946	Beaufort, NC	20	320	Harvey W. Smith	Beaufort, NC	

Official	Туре	Name	GT	NT	L	w	D	Year	Where Built	Crew	HP	Company	Home Port	Year
No.	<b>71</b>							Built		i				Bought
245904	oil screw	Fire Island	153	51	113.9	21.1	7.4	1944	Beaufort, NC	20	540	Harvey W. Smith	Beaufort, NC	
252206	oil screw	Mississippi	138	93	95.7	22.9	7	1946	Beaufort, NC	20	320	Harvey W. Smith	Beaufort, NC	
252650	oil screw	Moss Point	160	108	106.8	<b>2</b> 3.3	6.8	1947	Beaufort, NC	20	500	Harvey W. Smith	Beaufort, NC	
2532	oil screw	Ocean Springs	149	101	105.9	22.7	7.1	1947	Beaufort, NC	20	500	Harvey W. Smith	Beaufort, NC	
84	oil screw	Singing River	106	108	106.8	23.3	6.8	1947	Beaufort, NC	20	500	Harvey W. Smith	Beaufort, NC	
216583	oil screw	Swanson	154	32	109.4	19.9	8.4	1918	Weems, VA	21	330	Atlantic Navigation	New York, NY	
223189	oil screw	Thomas C. McNeal	232	42	127.9	21.1	9.8	1923	Solomons, MD	33	300	Atlantic Navigation	New York, NY	
253241	barge	Crab Island	171	171	98.1	31.1	7.1	1947	Camden, NJ	1	0	Fish Products	Philadelphia, PA	
253242	oil screw	Little George	11	8	36	11	4.2	1947	Camden, NJ	1	96	Fish Products	Philadelphia, PA	
216582	oil screw	Richmond	150	34	109.4	19.9	8.4	1918	Weems, VA	20	200	Fish Products	Beaufort, NC	
255385	oil screw	Barnegat	179	101	120.4	21.5	8.3	1948	Camden, NJ	27	600	Fish Products	Philadelphia, PA	
255550	barge	Little Egg	171	171	98.1	31.1	7.1	1948	Camden, NJ	1	0	Fish Products	Philadelphia, PA	
256216	oil screw	Brigantine	178	101	120.4	21.5	8.3	1948	Camden, NJ	27	600	Fish Products	Philadelphia, PA	
212389	oil screw	Pocahontas	345	40	139.6	24.2	11.5	1914	Milford, DE	30	600	Smith Meal	Boston, MA	
255159	gas screw	Marpro	15	12	39.9	11.3	5	1948	San Diego, CA	3	200	Marine Products	San Diego, CA	
258419	oil screw	Absecon	198	119	130.5	22.5	8.5	1949	Camden, NJ	26	800	Fish Products	Philadelphia, PA	
257543	oil screw	Beach Haven	177	101	120.4	21.5	8.3	1949	Camden, NJ	27	600	Fish Products	Philadelphia, PA	
258135	oil screw	Little Gull	198	119	130.5	22.5	8.9	1949	Camden, NJ	26	800	Fish Products	Philadelphia, PA	
157192	oil screw	Manasquan	178	102	120.4	21.5	8.3	1949	Camden, NJ	27	600	Fish Products	Philadelphia, PA	
	oil screw	Sea Girt	П											
257539	oil screw	Calcasieu	199	135	121.7	20.6	9.8	1949	Beaufort, NC	21	400	Gulf Menhaden	Beaufort, NC	
257540	oil screw	Marmentau	199	135	121.7	20.6	9.8	1945	Beaufort, NC	21	400	Gulf Menhaden	Beaufort, NC	
258001	oil screw	Montauk	306	208	146	24.1	9.8	1949	Camden, NJ	28	800	Smith Meal	Boston, MA	
257967	oil screw	Shinnecock	306	208	146		9.8	1949	Camden, NJ	28	800	Smith Meal	Boston, MA	
255736	oil screw	Rockaway	187	152	121.8	20.5	9.1	1948	Beaufort, NC	20	550	Atlantic Navigation	New York, NY	
259359	oil screw	Brandywine	198	119	130.5	22.5	8.5	1950	Camden, NJ	26	800	Fish Products	Philadelphia, PA	
259924	oil screw	Shrewsbury	198	119	130.5	22.5	8.5	1950	Camden, NJ	26	800	Fish Products	Philadelphia, PA	
	oil screw	Fish Hawk							Beaufort, NC					
259594	oil screw	Princess Bay	281	227	134.22	23.7	11	1950	Beaufort, NC	23	550	Atlantic Navigation	New York, NY	
252652	oil screw	Singing River	106	108	106.8	23.3	6.8	1947	Beaufort, NC	20	500	Fish Meal	Biloxi, MS	
262699	oil screw	Alex M	12	8	36.1	11.2	4.4	1951	Camden, NJ	l	92	Fish Products	Philadelphia, PA	
261429	oil screw	Indian River	198	119	130.5	22.5	8.5	1951	Camden, NJ	26	800	Fish Products	Philadelphia, PA	

Official	Туре	Name	GT	NT	L	W	D	Year	Where Built	Crew	HP	Company	Home Port	Year
No.								Built						Bought
261897	oil screw	Rehoboth	198	119	130	22.5	8.5	1951	Camden, NJ	26	800	Fish Products	Philadelphia, PA	
266605	oil screw	Elmo	207	86	124.7	22.4	8.8	1953	Morehead City, NC		800	Atlantic Navigation	New York, NY	
255887	oil screw	Mattie H. Phillips	198	71	125.3	22.2	9.7	1948	Morehead City, NC		800	Atlantic Navigation	New York, NY	
	oil screw	Core Sound	58	39	64.4	20	5.7	1953	Morehead City, NC		170	Beaufort Fisheries	Beaufort, NC	
	oil screw	Alabama	165	112	105.9	23.2	6.9	1948	Beaufort, NC		375	Fish Meal	Biloxi, MS	
	oil screw	Amanda Bishop	57	15	73.2	20	6.2	1904	Patchogue, NY		100	Fish Meal	Biloxi, MS	
253791	oil screw	Chandeleur	160	109	105.4	23.3	7.2	1947	Beaufort, NC		512	Fish Meal	Biloxi, MS	
255027	oil screw	Pascagoula	165	112	105.9	23.2	6.9	1948	Beaufort, NC		375	Fish Meal	Biloxi, MS	_
249835	oil screw	Sandy Hook	188	153	125.6	20.5	9.1	1946	Beaufort, NC		400	Fish Meal	Biloxi, MS	
265528	oil screw	Moriches	199	115	130.6	23.1	8.4	1953	Camden, NJ		800	Fish Products	Philadelphia, PA	
253152	oil screw	Pauline	249	107	126.3	25	11.3	1943	Bellingham, WA		1600	Beaufort Fisheries	Beaufort, NC	_
267646	oil screw	Neptune	189	111	139.4	26.1	7.1	1954	Pascagoula, MS		1120	Fish Meal	Biloxi, MS	
267697	oil screw	Triton	181	103	140.4	26.1	6.9	1954	Port Arthur, TX		1120	Fish Meal	Biloxi, MS	
268668	barge	Seven Islands	265	265	133.1	31.1	8.2	1954	Camden, NJ			Fish Products	Philadelphia, PA	
		Winter Quarter	199	115	130.6	23.1	8.4	1954	Camden, NJ		800	Fish Products	Philadelphia, PA	
268766	gas screw	Fin	8	6	31	9	3.8	1946	Cambridge, NC		100	Fish Products	Philadelphia, PA	
	oil screw	Amagansett	226	153	140.5	22.7	8.5	1954	Camden, NJ		800	Smith Meal	Boston, MA	
262584	oil screw	Maidstone	227	148	140.5	22.7	8.4	1951	Camden, NJ		800	Smith Meal	Boston, MA	
258001	oil screw	Montauk	306	208	146	24.1	9.8	1947	Camden, NJ		800	Smith Meal	Boston, MA	
262042	oil screw	Nantucket	227	148	140.5	22.7	8.4	1951	Camden, NJ		800	Smith Meal	Boston, MA	
137066	oil screw	E. J. Codd	181	75	121.7	22.5	9	1903	Pocomoke City, MD		300	Smith Meal	New York, NY	
135002	oil screw	Eugene F. Price	194	132	121.5	20.9	9.2	1874	Bristol, ME		400	Smith Meal	New York, NY	
141863	oil screw	Leander Wilcox	196	82	133.3	22.3	9.2	1903	Noank, CT		450	Smith Meal	New York, NY	
219992		Medric	354	93	150.4	25	13.3	1920	S. Portland, ME		1200	Smith Meal	New York, NY	
217516		Seminole	158	42	103	22	9.5	1919	Milford, DE		320	Smith Meal	New York, NY	
256786		Evelyn L. Willis	126	48	106.3	18.2	9.1	1943	Stanford		335	Fish Meal	Biloxi, MS	
255240	oil screw	Tar heel	116	78	106.7	18	9.9	1942	Kingston, NY		2400	Fish Meal	Boston, MA	
269649		Napeague	231	140	141.5	24.2	9.4	1955	Camden, NJ		960	Fish Meal	Boston, MA	
250339	<del></del>	Саре Мау	156		85.5	21.4	13	1946	Groton, CT		400	Smith Meal	Boston, MA	
	oil screw	Louisiana	195	<del></del>	142.8	27.5	7.9	1955	Port Arthur, TX		1000	Atlantic Navigation	New York, NY	
	oil screw	Romer Shoal	190		140	27.1	8.7	1956	Port Arthur, TX		1250	Atlantic Navigation	New York, NY	
1	oil screw	Texas	196	<del></del>	142.8	27.5	7.9	1955	Port Arthur, TX		1000	Fish Products	Philadelphia, PA	

Official No.	Type	Name	GT	NT	L	W	D	Year Built	Where Built	Crew	HP	Company	Home Port	Year Bought
	oil screw	Parramore Banks	198	113	130.6	23.1	8.4	1955	Camden, NJ		800	Fish Products	Philadelphia, PA	
271249	oil screw	Jarrett Bay	64	43	66.5	20.6	5.7	1956	Williston, NC		255	Beaufort Fisheries	Beaufort, NC	
271518	oil screw	Breton Island	174	118	124.4	24.1	6.8	1956	Port Arthur, TX		600	Fish Meal	Biloxi, MS	
271588	oil screw	Cat Island	181	123	124.4	24.1	6.8	1956	Port Arthur, TX		600	Fish Meal	Biloxi, MS	
271714	oil screw	Dauphine Island	181	123	124.4	24.1	6.8	1956	Port Arthur, TX		600	Fish Meal	Biloxi, MS	
271527	oil screw	Ship Island	181	123	124.4	24.1	6.8	1956	Port Arthur, TX		600	Fish Meal	Biloxi, MS	
271491	oil screw	Shoal Harbor	171	54	122.9	24	6.9	1956	Jacksonville, FL		600	Fish Meal	Biloxi, MS	
273448	gas screw	Abercrombie	9	8	31.1	9.8	3.6	1956	Salisbury, MD		125	Fish Products	MD	
273449	gas screw	Fitch	9	8	31.1	9.8	3.6	1956	Salisbury, MD		125	Fish Products	MD	
271851	oil screw	Bird Island	181	123	124.4	24.1	6.8	1956	Port Arthur, TX		600	Fish Meal	Biloxi, MS	
271775	oil screw	Horn Island	181	123	124.4	24.1	6.8	1956	Port Arthur, TX		600	Fish Meal	Biloxi, MS	
274545	oil screw	Li'l Abner	607	386	193.8	36.1	10.2	1957	Pascagoula, MS		1280	Fish Meal	Biloxi, MS	
276926	oil screw	Frosty Morn	648	344	195	3 <b>6</b>	11.1	1958	Jacksonville, FL		1240	J. Howard Smith Inc.	New York, NY	
278603	oil screw	Lennoxville	71	48	66.9	22.8	4.8	1959	New Bern, NC		290	Beaufort Fisheries	Beaufort, NC	
269194	oil screw	Acadia	317	216	120	30	8.5	1955	Port Arthur, TX		1200	Fish Meal	Morehead City, NC	
279285	oil screw	Broadkill	8	5	32.7	9.4	3.3	1959	Dorchester, NJ		165	Fish Products	Wilmington, DE	
278285	oil screw	Sharps Point	8	5	32.7	9.4	3.3	1959	Dorchester, NJ		165	Fish Products	Wilmington, DE	<u> </u>
267678	oil screw	Al Cubbage	192	130	141.5	26.2	6.9	1954	Port Arthur, TX		1120	J. Howard Smith Inc.	New York, NY	
267887	oil screw	O.M. Haverstick	197	134	141.5	26.2	6.9	1954	Port Arthur, TX		1120	J. Howard Smith Inc.	New York, NY	
274255	oil screw	Tiny Tim	613	337	194.6	36	9.2	1957	Atlantic Beach, FL		1280	J. Howard Smith Inc.	New York, NY	
280451	oil screw	La Nina	47	32	45.9	16.5	8.3	1960	Seattle, Wa			Fish Meal	New York, NY	
269489	oil screw	Fisherman	198	135	142.8	27.5	7.9	1955	Port Arthur, TX		900	Fish Meal	Morehead City, NC	
278749	oil screw	La Salle	417	283	134.8	32.1	10.2	1959	Port Arthur, TX		880	Fish Meal	Morehead City, NC	<u> </u>
281150	oil screw	Maverick	468	318	150.3	32.1	10.7	1960	Port Arthur, TX		912	Fish Meal	Morehead City, NC	<u> </u>
269537	oil screw	Muddy Water	198	134	142.8	27.5	7.9	1955	Port Arthur, TX		912	Fish Meal	Morehead City, NC	_
281151	oil screw	Sabine Pass	470	320	150.3	32.1	10.7	1960	Port Arthur, TX		912	Fish Meal	Morehead City, NC	
281152	oil screw	Trinity Shoal	470	320	150.3	32.1	10.7	1960	Port Arthur, TX		912	Fish Meal	Morehead City, NC	
289467	oil screw	Skate	262	178	153.7	23.2	10.7	1944	Neponset, MA		800	Fish Products	Wilmington, DE	
294343	oil screw	Sikeoyness	507	345	168.2	32.1	11.7	1944	New Orleans, LA		800	Fish Products	Wilmington, DE	<u> </u>
295011	oil screw	Sinepuxent	522	355	168.2	32.1	11.7	1944	New Orleans, LA		1000	Fish Products	Wilmington, DE	
280452	oil screw	La Pinta	47	32	47.4	16.5	8.3	1960	Seattle, WA		170	Fish Products	New York, NY	
280453	oil screw	Santa Maria	47	32	46.1	16.5	8.3	1960	Seattle, WA		170	J. Howard Smith Inc.	New York, NY	

## APPENDIX I: FISH HAWK TREASURY DEPARTMENT DOCUMENTS

PERMANENT ON TEMPORARY
 PERMANENT

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CERTIFICATE No. .

## THE UNITED STATES OF AMERICA

OFFICIAL No.	COMPUTED SYDNO CHIT
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Rebuilt at _				., 19

DEPARTMENT OF TRANSPORTATION UNITED STATES COAST GUARD

Service	Fishing	
Horsepower.	550	

## Consolidated Certificate of Enrollment and License

	JOHN P. ALBAN of Malverne, New York	ork, PRESIDENT	
aving taken and subscribed the oc	th 2	required by law, and having sworn	t/
	KASTERN TANKER CORP. (I.R.S. Emp.	loyer No. 13-5641962)	
	70 Pine Street, New York, New Yo	ork 10005	
	Incorporated under the Laws of t	he State of New York	
<u> </u>	THEOThoraved miles and racks or o		
<del></del>			
IS A	- cutten of the Onties states and	the sole owner of the vessel called the	
·	FISHHAWK (Name of years)	, ofNEW YORK, N. Y.	writhood.
and that the said vessel was built i	n the year 1 949, at Beaufort, North	Carolina (Carolina) th, 1974, now surrendered; OWNERSHIP CHA	NGED
as appears by P.L. NO. 129	issued at New 1071, N.I., December )	on, 1774, non partamenta, on	
	said enroll	<del></del>	having certified t
the said vessel is a 10	Oil Screw		that she
	mas _aStraight	stem, and a Round	stern; t
her register length is134	.2 to feet, her register breadth _	23.7 Ta feet, her register depi	th11.8
West todanse minden at man			
her height	est; that she measures as follows: 11		TONS 1 100m
		•	
Capacity under tonnage deck			
Capacity between decks above	tonnage deck		·
Capacity of enclosures on the	upper deck, viz: Forecastle; bridge		
houses—deck _32.74	side, mast, trunks	excess hatchways 1.82; fight and air	
•		Gross Tonnage	283 61
Deductions under Section	4153, Revised Statutes, as amended (Section 77, to	itle 46, United States Code):	
Crew space	Master's cabin	·	_1
Steering page	Anchor gear	Boatswain's stores	l
Chart house	Donkey engine and boiler	Radio house	{
Common of sails	Propelling power (actual space 30	.90 ) 175 P. P. 54.07	_
Storage of smis	Tropening youth (allow your	TOTAL DEDUCTIONS	54 07
			220
		Net Tonnage	
The following-described	spaces, and no others, have been omitted, viz: Fore	peak, afterpeak	, other spaces (except doubl
	, open forecastle, open bridge	, open poop, open shelter deck	, open houses
cabins, companie	ons 99 galley 6.86 skylights	, wheelhouse 3.59 , water-closets	, anchor gear
donkey engine and boiler	, steering gear, light and air spo	aces 21.28, other machinery spaces 6.51,	
	<del></del>		
		hanne agreed to the deterrotion	and measurement above speci
And 12			•
			•
And 12		CENSE	•
And 12 the said vessel has been duly EN	LI	CENSE	
And 12  the said vessel has been duly EN  And JOHN P.	ALBAN	CENSE , the master, having swo	rn that he is a citizen of the Un
And 12  the said vessel has been duly EN  And JOHN P.  States, that this license shall not States may be defrauded:	ALBAN be used for any other vessel, or for any other employ	CENSE, the master, having swo yment than is herein specified, or in any trade or business	rn that he is a citizen of the Ur whereby the revenue of the Ur
And 12  the said vessel has been duly EN  And JOHN P.  States, that this license shall not States may be defrauded:  LICENSE is hereby granted	ALBAN  ALBAN  be used for any other vessel, or for any other employ  for the said vessel to be employed in carrying on th	CENSE, the master, having swo yment than is herein specified, or in any trade or business	rn that he is a citizen of the Ur whereby the revenue of the Ut
And 12 the said vessel has been duly EN  And JOHN P.  States, that this license shall not States may be defrauded: UCENSE is hereby granted from the date hereof, and no lon	ALBAN  be used for any other vessel, or for any other employ  for the said vessel to be employed in carrying on th  ger.	CENSE, the master, having swo yment than is herein specified, or in any trade or business  MACKEREL FISHERY  (Consting Trade, God Fishery, or Mackerel Flahe	rn that he is a citizen of the Un whereby the revenue of the Ur for ONE Y
And 12 the said vessel has been duly EN  And JOHN P.  States, that this license shall not States may be defrauded: UCENSE is hereby granted from the date hereof, and no lon	ALBAN  ALBAN  the used for any other vessel, or for any other employ for the said vessel to be employed in carrying on th ger.  EN under my hand and seed at the PORT of NEW YORK OTHER MY	CENSE, the master, having swo yment than is herein specified, or in any trade or business  MACKEREL FISHERY  (Constitute Trade, Cod Fighery, or Mackered Flabe W YORK, N. Y.	rn that he is a citizen of the Un whereby the revenue of the Un for ONE Y
And 12 the said vessel has been duly EN  And JOHN P.  States, that this license shall not States may be defrauded: UCENSE is hereby granted from the date hereof, and no lon	ALBAN  he used for any other vessel, or for any other employ for the said vessel to be employed in carrying on th ger.  No under my hand and seal at the PORT ofNE  District ofNEW YORK CITY, N. Y.	CENSE, the master, having swo yment than is herein specified, or in any trade or business is	rn that he is a citizen of the Un whereby the revenue of the Ur for ONE Y
And 12 the said vessel has been duly EN  And JOHN P.  States, that this license shall not States may be defrauded: UCENSE is hereby granted from the date hereof, and no lon	ALBAN  be used for any other vessel, or for any other employ  for the said vessel to be employed in carrying on th  ger.  EN under my hand and seal at the PORT of NEW YORK CITY, N. Y.	CENSE, the master, having swo yment than is herein specified, or in any trade or business  MACKEREL FISHERY  (Constitute Trade, Cod Fighery, or Mackered Flabe W YORK, N. Y.	rn that he is a citizen of the Un whereby the revenue of the Ur for ONE Y
And 12  the said vessel has been duly EN  And JOHN P.  States, that this license shall not States may be defrauded: UCENSE is hereby granted from the date hereaf, and no lon	ALBAN  he used for any other vessel, or for any other employ for the said vessel to be employed in carrying on th ger.  No under my hand and seal at the PORT ofNE  District ofNEW YORK CITY, N. Y.	THE TWENT LETH day of NO VENTY-FIVE	rn that he is a citizen of the Us whereby the revenue of the Us for ONE Y

#### PREFERRED MORTGAGE ENDORSEMENT

(MERCHANT MARINE ACT, 1984 SEC. MINU. S. C., TITLE &L GRAPTER M)

#### MORTGAGE DESCRIPTION (SUBSECTION DC)

Mortgagor
Morigages
Endorsed
Total amount, \$
Date of maturity, 19
Discharge amount, \$
Port of
[sear]
Documentation Officer.
MORTGAGE DISCHARGE
Port of
,79
The sum of \$ has been
paid on the above-described mortgage, the certificate
paid on the above-described mortgage, the certificate of such discharge being filed in this office and recorded
•
of such discharge being filed in this office and recorded

Official	N <sub>a</sub>	257819
Official	NO.	EJIULY.

CG-1271

DEPARTMENT OF TRANSPORTATION UNITED STATES COAST GUARD

PERMANENT

(Parmanent or Temporary)

#### **Consolidated Enrollment and License**

FOR THE FISHERIES. (Insert "Constinu Trade" or "Fisheries") No. 129 OF THE Oil Screw CALLED THE FISHHAWK NEW YORK, N.Y. 283 gross, ... ISSUED AT THE NEW YORK, N.Y. Port of DECEMBER 5th WHERE SURRENDERED: NEW YORK, N.Y. WHEN SURRENDERED: NOVEMBER 20th, 1975 WHY SURRENDERED:

OWNERSHIP CHANGED

P.E. NO. 72 ISSUED

Documentation Officer.

GPO 949-240

#### PREFERRED MORTGAGE ENDORSEMENT

(MERCHANT MARINE ACT, 1994 SEC. 39-U, S. C., TITLE M, CHAPTER 25)

#### MORTGAGE DESCRIPTION (SUBSECTION DC)

Mortgagor _	
Morigages	
Endorsed	
Total amour	ıt, \$
	urity, 19
Discharge an	nount, \$
Port of	
SEAL]	
	Documentation Officer.
	MORTGAGE DISCHARGE
Por	e of
	, rg
The sum o	f \$ has bee
paid on the	above-described mortgage, the certificat
. f l disadi	arge being filed in this office and records

Documentation Officer.

[SEAL]

#### PONUMENT OR TEMPORARY PERMANENT CERTIFICATE No. 129

## THE UNITED STATES OF AMERICA

OFFICIAL NO.	CONTRACT LEGISTER CONTRACTOR
257819	

Measured of Beaufort, North Carolina	_ n <u>.49</u>
Rebuilt at	19

DEPARTMENT OF TRANSPORTATION UNITED STATES COAST GUARD

Service	Fishing	
Hersepower	550	

## Consolidated Certificate of Enrollment and License

aving taken and subscribed the odi	RORERT W. SMITH of Red Bank, N.			
	h ·	required by law, and having sworn.		the
	THE NEW SMITH MEAL COMPANY, INC.	. (I.R.S. Employer No. 22-1992052)		
	Box D, Port Monmouth, N.J. 07758	3		
	INCORPORATED UNDER THE LAWS OF T		<u>-</u>	
			<del></del>	
		EREST IN THE CORPORATION OWNING THIS VESSEL STATES. IT SHALL NOT ENGAGE IN THE COASTW		
IS A	citizen of the United States at	nd the sole owner of the vessel called the	<del></del>	
FISHHAWK		NEW YOR		
	the year 1 949, at Beaufort, North	n Carolina (Home poor of ), 1970, now surrendered; OWNERSHIP CHANGED	Wood	
u appears by 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	155 day 20 New 10/A, N.I., April 6,	, 1970, now switeindered; ownEndill Changes		
ınd •	Said Enrollment		having ce	
he said vessel is a <sup>181</sup>	Oil Screw		; ti	*
	mast ,a Straight	stem, and a Round	11.8	
ter register length is134	2 Ya feet, her register breadth		11.8	—18 /c
har haightfa fe	et; that she measures as follows: 33			
			TORS	100000
Capacity under tonnage deck .			236	41
				_
		ge; poap; break12.64		
howes deck 32.74 s	ide, mast trunks	; excess hatchways 1.82 ; light and air	1	
.,	,		-  47	20
	, , , ,	GROSS TONNAGE		20 61
	4153, Revised Statutes, as amended (Section 77,	GROSS TONNAGE		20 61
Deductions under Section 4	153, Revised Statutes, as amended (Section 77, Master's cabin	GROSS TONNAGE		20 61
Deductions under Section of Grew space	\$153, Revised Statutes, as amended (Section 77, Master's cabin Anchor gear	GROSS TONNAGE		20 61
Deductions under Section of Grew space Steering gear Chart house	153, Revised Statutes, as amended (Section 77,  Master's cabin  Anchor gear  Donkey engine and boiles	GROSS TONNAGE  , title 46, United States Code):  Boatswain's stores  Radio house		20 61
Deductions under Section of Grew space Steering gear Chart house	\$153, Revised Statutes, as amended (Section 77, Master's cabin Anchor gear	GROSS TONNAGE  , title 46, United States Code):  Boatswain's stores  Radio house	283	
Deductions under Section of Grew space Steering gear Chart house	153, Revised Statutes, as amended (Section 77,  Master's cabin  Anchor gear  Donkey engine and boiles	GROSS TONNAGE  , title 46, United States Code):  Boatswain's stores  Radio house	283	20 61 07
Deductions under Section of Crew space  Steering gear	4153, Revised Statutes, as amended (Section 77,  Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space 3	GROSS TONNAGE	283	
Deductions under Section of Crew space Steering gear Chart house Storage of sails The following-described sp	4153, Revised Statutes, as amended (Section 77,  Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space 3	GROSS TONNAGE  , title 46, United States Code):  Boatswain's stores  Radio house  10.90 ) 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  after peak	283	07
Deductions under Section of Crew space  Steering gear Chart house Storage of sails  The following-described sp bottoms) for water ballast	4153, Revised Statutes, as amended (Section 77,  Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space 3	GROSS TONNAGE  , title 46, United States Code):  Boatswain's stores  Radio house  10.90 ) 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  , after peak	54	07
Deductions under Section of Crew space  Steering gear Chart house Storage of sails  The following-described sp bottoms) for water ballast cabins, companion	4153, Revised Statutes, as amended (Section 77,  Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space 3  aces, and no others, have been omitted, viz: For  open forecastle, open bridge_  s •99 galley 6.86, skylights	GROSS TONNAGE  , title 46, United States Code):   Boatswain's stores  Radio house  10.90 ) 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  , afterpeak, afterpeak, open shelter deck, wheelhouse 3.59 water-closest	54	07
Deductions under Section of Grew space  Steering gear Chart house Storage of sails  The following-described sp bottoms) for water ballast cabins, companion	4153, Revised Statutes, as amended (Section 77,  Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space 3  aces, and no others, have been omitted, viz: For  open forecastle, open bridge_  s •99 galley 6.86, skylights	GROSS TONNAGE  , title 46, United States Code):  Boatswain's stores  Radio house  10.90 ) 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  , afterpeak	54	07
Deductions under Section of Grew space  Steering gear Chart house Storage of sails  The following-described sp bottoms) for water ballast cabins, companion donkey engine and boiler	4153, Revised Statutes, as amended (Section 77,  Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space 3  aces, and no others, have been omitted, viz: For  open forecastle, open bridge_  s •99 galley 6.86, skylights	GROSS TONNAGE  , title 46, United States Code):  Boatswain's stores  Radio house  10.90 ) 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  , after peak  , open poop , open shelter deck  , wheelhouse 3.59 , water-closets , wheelhouse 6.51	54 229 , other spaces (excel	07
Deductions under Section of Grew space  Steering gear Chart house Storage of sails  The following-described sp bottoms) for water ballast cabins, companion donkey engine and boiler	4153, Revised Statutes, as amended (Section 77,  Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space3  aces, and no others, have been omitted, viz: For	GROSS TONNAGE  , title 46, United States Code):   Boatswain's stores  Radio house  10.90 ) 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  , afterpeak, afterpeak, open shelter deck, wheelhouse 3.59 water-closest	54 229 , other spaces (excel	07
Deductions under Section of Crew space  Steering gear Chart house Storage of sails  The following-described sp bottoms) for water ballast cabins, companion donkey engine and boiler	Anchor gear  Donkey engine and boiler  Propelling power (actual space 3  aces, and no others, have been omitted, viz: For  open forecastle, open bridge  s, steering gear, light and air s	GROSS TONNAGE  , title 46, United States Code):  Boatswain's stores  Radio house  10.90 ) 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  , afterpeak, afterpeak, apen poop, open shelter deck, wheelhouse3.59 , water-closets, paces, other machinery spaces6.51  having agreed to the description are	54 229 , other spaces (excel	07
Deductions under Section of Crew space  Steering gear Chart house Storage of sails  The following-described sp bottoms) for water ballast cabins, companion donkey engine and boiler	Anchor gear  Donkey engine and boiler  Propelling power (actual space 3  aces, and no others, have been omitted, viz: For  open forecastle, open bridge  s, steering gear, light and air s	GROSS TONNAGE  , title 46, United States Code):  Boatswain's stores  Radio house  10.90 ) 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  , after peak  , open poop , open shelter deck  , wheelhouse 3.59 , water-closets , wheelhouse 6.51	54 229 , other spaces (excel	07
Deductions under Section of Crew space  Steering gear Chart house Storage of sails  The following-described sp bottoms) for water ballast cabins, companion donkey engine and boiler the said vessel has been duly ENR.	Anchor gear  Donkey engine and boiler  Propelling power (actual space	GROSS TONNAGE  , title 46, United States Code):  Boatswain's stores  Radio house  10.90 ) 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  , open poop, open sheller deck  wheelhouse 3.59 water-closets  paces 21.28 , other machinery spaces 6.51  having agreed to the description at	54 229 , other spaces (exception, open houses, anchor gear	07
Deductions under Section of Crew space  Steering gear Chart house Storage of sails  The following-described sp bottoms) for water ballast cabins, companion donkey engine and boiler  And JOSEP States, that this license shall not be	Anchor gear  Donkey engine and boiler  Propelling power (actual space	GROSS TONNAGE  , title 46, United States Code):  Boatswain's stores  Radio house  10.90 ) 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  , afterpeak, afterpeak, apen poop, open shelter deck, wheelhouse3.59 , water-closets, paces, other machinery spaces6.51  having agreed to the description are	54 229 , other spaces (exception, open houses, anchor gear	07
Deductions under Section of Crew space  Steering gear	Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space _ 3  aces, and no others, have been omitted, viz: For  open forecastle, open bridge  s = 99, galley, skylights, steering gear, light and air s,  OLLED as this PORT:  L  SCHOLLEMBERGER  used for any other vessel, or for any other emple	GROSS TONNAGE  title 46, United States Code):   Radio house  10.90 ) 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  repeak	54.  229  other spaces (exception, anchor gear anchor	07 pt double  ve specifie the Unit
Deductions under Section of Crew space  Steering gear	Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space 3  aces, and no others, have been omitted, viz: For  open forecastle, open bridge_  s	GROSS TONNAGE  title 46, United States Code):   Radio house  10.90 ) 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  repeak	283  54  229  , other spaces (exception, open houses	07
Deductions under Section of Crew space  Steering gear	Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space 3  aces, and no others, have been omitted, viz: For  open forecasitle  , open bridge  s	GROSS TONNAGE  , title 46, United States Code):   Boatswain's stores  Radio house  10.90 ) 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  , after peak, after peak, open shelter deck, open shelter deck, wheelhouse, open shelter deck	283  54  229  , other spaces (exception, open houses	07 pt double  ve specifie the Unit
Deductions under Section of Crew space  Steering gear	Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space 3  aces, and no others, have been omitted, viz: For  open forecastle, open bridge_  s	GROSS TONNAGE  , title 46, United States Code):  Boatswain's stores  Radio house  10.90 ) 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  , after peak  , open poop, open shelter deck  , wheelhouse3.59 water-closets  paces	283  54  229  , other spaces (exception, open houses	07 pt double  ve specifie the Unit

#### PREFERRED MORTGAGE ENDORSEMENT

(MERCHANT MARINE ACT, IMA REC. IN-U. S. C., THEE M. CHAPTER IS)

#### MORTGAGE DESCRIPTION

Mortgagor
Morigagee
Endorsed, 19, at m.
Total amount, \$
Date of maturity, 19
Discharge amount, \$
Port of
[SEAL]
Documentation Officer.
MORTGAGE DISCHARGE (SUBBECTION GB)
Port of
The sum of \$has been
paid on the above-described mortgage, the certificate
of such discharge being filed in this office and recorded
'{SEAL]
Documentation Officer.

#### Official No. 257819

CG-1271

DEPARTMENT OF TRANSPORTATION
UNITED STATES COAST GUARD

PERMANENT (Permanent or Temporary)

#### Consolidated Enrollment and License

Aniiahiidataa Finaniiiani ana Fisanos	
FOR THE	ł
FISHERIEN	1
(Insert "Coasting Trade" or "Fisheries")	1
750	1
No	H
OF THE	į.
Oil Screw	1
CALLED THE	
FISHHAWK	ı İ
OF ·	i
new York, N. Y.	1
	i
283 gross, 229 net,	
185UPD AT THE	;   :
Port ofNEW YORK, N. Y.	
	İ
WHERE SURRENDERED:	
New York, N.Y.	
WHEN SURRENDERED:	
December 5, 1974 WHY SURRENDERED: (U.S. MARITIME ADMINIST-	
WHY SURRENDERED: (U.S. MARITIME ADMINIST-	
OWNERSHIP CHANGED RATION TRANSFER ORDER NO MA-13392 DATED 6th MAY 1974)	
P.E. NO. 129 ISSUED	

GPO 959-652

Documentation Officer.

#### PREFERRED MORTGAGE ENDORSEMENT

(MERCHANT MARINE ACT. ISM. SEC. 16-V. S. C., TITLE M. CHAPTER 18)

#### MORTGAGE DESCRIPTION (BUBSECTION DC)

Mortgagor	~
Mortgages	
Endorsed	, 19, at m
Total amount,	ş
Date of matur	ity, 19
Discharge amo	unt, \$
Post of .	
[SEAL]	·
	Documentation Officer.
	MORTGAGE DISCHARGE (BUBBECTION GB)
Port.	of
The sum of	\$has been
paid on the a	bove-described martgage, the certificate
of such discha	rge being filed in this office and recorder
	, 19, at m
[SEAL]	
	•

Documentation Officer.

ENDORSEMENTS OF C	HANGE OF MASTER
on of REEDVILLE, VIRGINIA 6 NOVEMBER 19 70	(7) Port of
E. B. HAYNIE having taken the oath	, having taken the oath
equired by law, is at present master of the within-named vessel, vice	required by law, is at present master of the within-named vessel, vice
Had Joh Lide Documentation Officer.	Documentation Officer.
(2) or Leadello Oa 13 Too. 1970	(8) Port of 19
William H. Jewes , having taken the outh	having taken the oath
required by law, is at present master of the within-named vessel, vice	required by law, is at present master of the within-named vessel, vice
Thadiff & LOS Documentation Officer.	Documentation Officer.
(3) Port of REEDVILLE, VINGLATA 20 NOVEMBER, 19 70	(9) Port of 19
MATHEWS GASKINS having taken the oath	, having taken the oath
required by law, is at present master of the within-named vessel, vice	required by law, is at present master of the within-named vessel, vice
Spain Suanapocumentation Officer.	Documentation Officer,
(4) Port of 19	(10) Port of
having taken the oath	
required by law, is at present master of the within-named vessel, vice	required by law, is at present master of the within-named vessel, vice
Documentation Officer.	Documentation Officer.
(5)	(11) Port of
Port of	
having taken the oath required by law, is at present master of the within-named vessel, vice	having taken the oath required by law, is at present master of the within-named vessel, vice
Documentation Officer.	Documentation Officer.
(6) Port of	(12)
having taken the oath	having taken the oath
required by law, is at present master of the within-named vessel, vice	required by law, is at present moster of the within-named vessel, vice
, Documentation Offices.	Documentation Officer.
ENDORSEMENT	S OF RENEWAL
Renewal No. 1. Port of	Renewal No. 4. Port of
The within-described LICENSE is hereby renewed for ONE YEAR	The within-described LICENSE is hereby renewed for ONE YEAR
from19	from
[Seal]	[Seal]
Documentation Officer.	[Seal]
Renewal No. 2. Port of	Renewal No. 5. Port of
The within-described LICENSE is hereby renewed for ONE YEAR	The within-described LICENSE is hereby renewed for ONE YEAR
from	from 19
[Seel]	[Seal]
Renewal No. 3. Port of	Renewal No. 6. Port of
The within-described LICENSE is hereby renewed for ONE YEAR	The within-described LICENSE is hereby renewed for ONE YEAR
from19	from
· · · · · · · · · · · · · · · · · · ·	[Seal]
Documentation Officer.	Documentation Officer.

#### PERMANENT CERTIFICATE No. 152

## THE UNITED STATES OF AMERICA

OFFICIAL NA	CONTROLS STORY CHILD	
257819	₩C 5738	

Measured of Beaufort, North Carolina 19 49
Rebailt at

DEPARTMENT OF TRANSPORTATION UNITED STATES COAST GUARD

rvice	Fishing	
offepower	-550	

Consolidated	Certificate	of	Enrollment and	License
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In Conformity to Title L, "Regulation of Vessels in Domestic Commerce," of the Revised Statutes of the United States

wing taken and subscribed the oath 1	H. W. SMITH of Port Formou	th, New Jersey, PRESIDENT	
_		required by law, and having sworn	
	ATLANTIC NAVIGATION COMPAN	Y (I. R. S. Employer No. 21-0398946)	
	Port Monmouth, New Jersey		
	Incorporated under the law	B of the State of New Jersey	
	ALTERNATION MANUEL VIII AGE	S OI CHE BOACE OF NEW SEISEY	
IS A			
FISHHAWK		the sole owner of the vessel called the NEW YO	ORK, N. Y.
ed that the said vessel was built in the yea	r 1949 , at Beautor	t. North Carolina (Home po	wood
appears by P. B. No. 265 158	ued at New York, N. Y., May 20	th, 1964, Now Surrendered; CWNERSHIP CHAN	GED
e said vessel is a fi	Said Enrol Oil Scre		
		sem, and a Round	; that she
register length is 134.2	man , a Straight	nem, and aROUNT	stern;
r height	she measure as fellows 11	23.7 18 feet, her register depth	1 11.8 I
16 /201, 1821	ine measures as possous:		<u> </u>
Catacity ander towns a deal			· TORS 1001
		; excess hatchways 1.82; light and air	
10001611000	, mast, trunks	; excess natchways; light and air	
•	•		
-		GROSS TONNAGE	
Deductions under Section 4153, Re	wited Statutes, as amended (Section 77, tit	GROSS TONNAGE	
Deductions under Section 4153, Re	Master's cabin	Gross Tonnage	
Deductions under Section 4153, Re Crew space Steering gear	Master's cabin	Gross Tonnage	
Deductions under Section 4153, Re Crew space Steering gear Chart house	Master's cabin Anchor gear Donkey engine and boiler	GROSS TONNAGE  lle 46, United States Code):  Boatswain's stores  Radio house	
Deductions under Section 4153, Re Crew space Steering gear Chart house	Master's cabin Anchor gear Donkey engine and boiler Propelling power (actual space 30.	GROSS TONNAGE	28361
Deductions under Section 4153, Re Crew space Steering gear Chart house	Master's cabin Anchor gear Donkey engine and boiler	GROSS TONNAGE  tle 46, United States Code):  Boatswain's stores  Radio house  175 P. P. 54.07  TOTAL DEDUCTIONS	
Deductions under Section 4153, Re Crew space Steering gear Chart house Storage of sails	Master's cabin Anchor gear Donkey engine and boiler Propelling power (actual space 30.	GROSS TONNAGE  tle 46, United States Code):  Boatswain's stores  Radio house  175 P. P. 54.07  Total Deductions  Net Tonnage	
Deductions under Section 4:53, Re Crew space Steering gear Chart house Storage of sails The following-described spaces, an	Master's cabin Anchor gear Donkey engine and boiler Propelling power (actual space 30e)	GROSS TONNAGE  tle 46, United States Code):  Boatswain's stores  Radio house  90 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  after beak	
Deductions under Section 4:53, Re Crew space Steering gear Chart house Storage of sails The following-described spaces, an bottoms) for water ballass	Master's cabin Anchor gear Donkey engine and boiler Propelling power (actual space 30.e	GROSS TONNAGE  tle 46, United States Code):	54 07 229 Solver spaces (except double
Deductions under Section 4153, Re Crew space Steering gear Chart house Storage of sails The following-described spaces, an bottoms) for water ballast, o cabins, companions, 29	Master's cabin Anchor gear Donkey engine and boiler Propelling power (actual space 30.  d no others, have been omitted, viz: Forep pen forecastle, apen bridge, skylights	GROSS TONNAGE  tle 46, United States Code):  Boatswain's stores  Radio house  90 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  , after peak , open shelter deck , wheelhouse 3.59 mater clasets	54 07 229 Solver spaces (except double
Deductions under Section 4153, Re Crew space Steering gear Chart house Storage of sails The following-described spaces, an bottoms) for water ballast, o cabins, companions, 29	Master's cabin Anchor gear Donkey engine and boiler Propelling power (actual space 30.  d no others, have been omitted, viz: Forep pen forecastle, apen bridge, skylights	GROSS TONNAGE  tle 46, United States Code):  Boatswain's stores  Radio house  90 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  after beak	54 07 229 Solver spaces (except double
Deductions under Section 4153, Re Crew space Steering gear Chart house Storage of sails The following-described spaces, an bottoms) for water ballast, o cabins, companions, s donkey engine and boiler, s	Master's cabin Anchor gear Donkey engine and boiler Propelling power (actual space 30.  d no others, have been omitted, viz: Forep pen forecastle, apen bridge, skylights	GROSS TONNAGE  tle 46, United States Code):  Boatswain's stores  Radio house  90 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  , after peak  , open sheller deck  , wheelhouse 3.59  mater clasets	54 07 229 Solver spaces (except double
Deductions under Section 4153, Re Crew space Steering gear Chart house Storage of sails The following-described spaces, an bottoms) for water ballast, o cabins, companions, si And 12, si	Master's cabin Anchor gear Donkey engine and boiler Propelling power (actual space 30e  d no others, have been omitted, viz: Forep pen forecastle , open bridge , skylights , galley , 6e86 , skylights and air space	GROSS TONNAGE  tle 46, United States Code):  Boatswain's stores  Radio house  90 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  , after peak  , open sheller deck  , wheelhouse 3.59  mater clasets	54 07 229 = other spaces (except double open houses
Deductions under Section 4153, Re Crew space Steering gear Chart house Storage of sails The following-described spaces, an bottoms) for water ballast, o cabins, companions, si And 12, si	Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space 30.  d no others, have been omitted, viz: Forep pen forecastle, open bridge , gallcy, skylights teering gear, light and air space	GROSS TONNAGE  tle 46, United States Code):  Boatswain's stores  Radio house  175 P. P. 514.07  TOTAL DEDUCTIONS  NET TONNAGE  after peak  popen poop  popen shelter deck  wheelhouse 3.59  having agreed to the description at	54 07 229 = other spaces (except double open houses
Deductions under Section 4153, Re Crew space Steering gear Chart house Storage of sails The following-described spaces, an bottoms) for water ballast, o cabins, companions, s donkey engine and boiler, s	Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space 30.  d no others, have been omitted, viz: Forep pen forecastle, open bridge , gallcy, skylights teering gear, light and air space	GROSS TONNAGE  tle 46, United States Code):  Boatswain's stores  Radio house  90 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  eak, after peak, open shelter deck, wheelhouse 3.59 water-closets, es 21.28, other machinery spaces 6.51	54 07 229 = other spaces (except double open houses
Deductions under Section 4153, Re Crew space  Steering gear  Chart house  Storage of sails  The following-described spaces, an bottoms) for water ballast  cabins, companions99 donkey engine and boiler, si  And	Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space 30e  d no others, have been omitted, viz: Forep pen forecastle, apen bridge  galley _6.86, skylights  teering gear, light and air space  to this PORT:  LIC  H. W. SMITH	GROSS TONNAGE  Boatswain's stores  Radio house  90 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  eak, afterpeak, open poop, open shelter deck, wheelhouse3.59, water-closets, wheelhouse, afterpeak, afterpeak, wheelhouse, afterpeak	54 07 229
Deductions under Section 4153, Re Crew space Steering gear Chart house Storage of sails  The following-described spaces, an bottoms) for water ballast ocabins companions And se said vessel has been duly ENROLLED ocabins And tates, that this license shall not be used for	Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space 30e  d no others, have been omitted, viz: Forep pen forecastle, apen bridge  galley _6.86, skylights  teering gear, light and air space  to this PORT:  LIC  H. W. SMITH	GROSS TONNAGE  tle 46, United States Code):  Boatswain's stores  Radio house  175 P. P. 514.07  TOTAL DEDUCTIONS  NET TONNAGE  after peak  popen poop  popen shelter deck  wheelhouse 3.59  having agreed to the description at	54 07 229
Deductions under Section 4153, Re Crew space Steering gear Chart house Storage of sails  The following-described spaces, an bottoms) for water ballast ocabins companions And se said vestel has been duly ENROLLED of tates, that this license shall not be used for lates may be defrauded:	Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space 30.  d no others, have been omitted, viz: Forep pen forecastle , open bridge , skylights , stylights , light and air space , light per and air space , light	GROSS TONNAGE  Boatswain's stores  Radio house  175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  eak  , open poop , open shelter deck , wheelhouse 3.59, water-closets  res 21.28, other machinery spaces 6.71  having agreed to the description as  ENSE  , the master, having sworn  ment than is herein specified, or in any trade or business wi	. 283 61  54 07  229 =
Deductions under Section 4153, Re Crew space  Steering gear  Chart house  Storage of sails  The following-described spaces, an bottoms) for water ballast, o cabins, companions, 29 donkey engine and boiler, si  And tates said vessel has been duly ENROLLED a  and tates, that this license shall not be used for lates may be defrauded:  LICENSE is hereby granted for the said	Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space 30e  d no others, have been omitted, viz: Forep pen forecastle, apen bridge  galley _6.86, skylights  teering gear, light and air space  to this PORT:  LIC  H. W. SMITH	GROSS TONNAGE  Boatswain's stores  Radio house  175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  eak  , open poop , open shelter deck , wheelhouse 3.59, water-closets  res 21.28, other machinery spaces 6.71  having agreed to the description as  ENSE  , the master, having sworn  ment than is herein specified, or in any trade or business wi	. 283 61  54 07  229 =
Deductions under Section 4153, Re Crew space  Steering gear  Chart house  Storage of sails  The following-described spaces, an bottoms) for water ballast, o cabins, companions, 29 donkey engine and boiler, si  And tates, that this license shall not be used for lates may be defrauded:  LICENSE is hereby granted for the said rom the date hereof, and no longer.	Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space 30.  d no others, have been omitted, vic: Forep pen forecastle, apen bridge  gellcy, skylights teering gear, light and air space  at this PORT:  LIC  H. W. SMITH  any other vessel, or for any other employm I vessel to be employed in carrying on the	GROSS TONNAGE  GROSS TONNAGE  Boatswain's stores  Radio house  90 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  eak, open sheller deck, open sheller deck, water-closets, water-closets, water-closets, water-closets, water do the description at having agreed to the description at having agreed to the description at having the master, having sworn ment than is herein specified, or in any trade or business with the master of the	. 283 61  54 07  229 =
Deductions under Section 4153, Re Crew space  Steering gear  Chart house  Storage of sails  The following-described spaces, an bottoms) for water ballast, o eabins, companions, si  donkey engine and boiler, si  And  tates, that this license shall not be used for tates may be defrauded:  UCENSE is hereby granted for the said rom the date hereof, and no longer.  GIVEN under r	Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space 30.  d no others, have been omitted, viz: Forep pen forecastle, open bridge  gallcy, skylights teering gear, light and air space  at this PORT:  LIC  H. W. SMITH  any other vessel, or for any other employm it vessel to be employed in carrying on the my hand and seal at the PORT of	GROSS TONNAGE  GROSS TONNAGE  Boatswain's stores  Radio house  90 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  eak	. 283 61  54 07  229 =
Deductions under Section 4153, Re Crew space  Steering gear  Chart house  Storage of sails  The following-described spaces, an bottoms) for water ballast, o cabins, companions, 29 donkey engine and boiler, si  And tates, that this license shall not be used for lates may be defrauded:  LICENSE is hereby granted for the saic rom the date hereof, and no longer.  GIVEN under s  District of	Master's cabin  Anchor gear  Donkey engine and boiler  Propelling power (actual space 30.  d no others, have been omitted, vic: Forep pen forecastle, apen bridge  gellcy, skylights teering gear, light and air space  at this PORT:  LIC  H. W. SMITH  any other vessel, or for any other employm I vessel to be employed in carrying on the	GROSS TONNAGE  The 46, United States Code):  Boatswain's stores  Radio house  90 175 P. P. 54.07  TOTAL DEDUCTIONS  NET TONNAGE  eak afterpeak for peak for	. 283 61  54 07  229 =

#### Official No. 257819 PREFERRED MORTGAGE ENDORSEMENT (MERCHANT MARINE ACT, 1879, ECC, 30-U. S. C., TITLE 41, CHAPTER 29) Customs Form 1271 TREASURY DEPARTMENT MORTGAGE DESCRIPTION BUREAU OF CUSTOMS (BUBSECTION DC) PERMANENT (Permanent or Temporary) Morigagor .. Consolidated Enrollment and License FOR THE FISHERIES (Insert "Coasting Trade" or "Fisheries") Total amount, \$ Date of maturity . 265 OF THE Oil Screw Discharge amount, \$ CALLED THE FISHHAWK NEW YORK, N. Y. STAL Deputy Collector of Customs. ISSUED AT THE MORTGAGE DISCHARGE :-Port of NEW YORK, N. Y. (SUBSECTION GB) MAY 20th WHERE SURRENDERED: NEW YORK, N. Y. WHEN SURRENDERED:\_ APRIL 8, 1970 The sum of \$ .... WHY SURRENDERED: paid on the above-described mortgage, the certificate OWNERSHIP CHANGED. of such discharge being filed in this office and recorded-P. E. NO. 152 ISSUED. (SEAL)

Deputy Collector of Customs.

#### PREFERRED MORTGAGE ENDORSEMENT

(MERCHANT MARINE ACT, 1920, SEC. 36—U. E. C., TITLE M. CHAPTER IS)

#### MORTGAGE DESCRIPTION (BUBBECTION DC)

Morigagor	
Mortgagee	
Total amount, \$_	
Date of maturity	
Discharge amount	, \$
· · · · · · · · · · · · · · · · · · ·	
Port of	
[SEAL]	**.
<u></u>	Deputy Collector of Gustoms.
MC	ORTGAGE DISCHARGE
	DRTGAGE DISCHARGE
	DRTGAGE DISCHARGE (BUBSECTION GB)
Port of -	DRTGAGE DISCHARGE (BUBSECTION GB)
Port of - The sum of \$-	DRTGAGE DISCHARGE (BUBSECTION GB)
Port of - The sum of \$- paid on the abo	ORTGAGE DISCHARGE (BUBSECTION GB)  , 19  has been ve-described mortgage, the certificate being filed in this office and recorded
Port of - The sum of \$- paid on the abo	DRTGAGE DISCHARGE (BUBSECTION GB)  19  kas been ve-described mortgage, the certificate
Port of - The sum of \$- paid on the abo	ORTGAGE DISCHARGE (BUBSECTION GB)  , 19  has been ve-described mortgage, the certificate being filed in this office and recorded

ENDORSEMENTS OF CH	IANGE OF MASTER
(1) Pert of REEDVILLE, VIRGINIA MAY 22, 1964	(7) Port of1919
· · · · · · · · · · · · · · · · · · ·	, having taken the oath
VILLEY H. LEWIS , having taken the ooth required by law, is at present master of the within-named vessel, vice	required by law, is at present master of the within-named vessel, vice
11. H. CUBBACE	
Madip Course Deputy Collector of Customs.	Deputy Collector of Customs.
	(8)
Port of REENVILLE, VIRGINIA 6 June 19 69	Port of 19
JACKIE A. SIMPSON having taken the oath	having taken the oath
required by law, is at present master of the within-named vessel, vice	required by law, is at present master of the within-named vessel, vice
Documentation Office	P Deputy Collector of Customs.
(3)	(9) Port of
Port of	, having taken the oath
nequired by law, is at present master of the within-named vessel, vice:	required by law, is at present master of the within-named vessel; vice
Deputy Collector of Customs.	Deputy Collector of Cestoms.
(4)	(10)
Port of19	Port of
having taken the oath	having taken the outh
required by law, is at present master of the within-named vessel, vice	required by law, is at present master of the within-named vessel, vice
, Deputy Collector of Customs.	Deputy Callector of Customs.
(5)	(11) Port of 19
Port of	having taken the oath
required by law, is at present master of the within-named vessel, vice	required by law, is at present master of the within-named vessel, vice
Deputy Collector of Customs.	
(6)	(12)
Port of 19	Port of
required by law, is at present master of the within-named vessel, vice	required by law, is at present master of the within-named vessel, vice
D Collector of Customs.	Deputy Collector of Custams.
Deputy Collector of Custome.  ENDORSEMEN	TS OF RENEWAL
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Renewal No. 4. Port of REEDVILLE, VIRGINIA (5-29-68)
Renewal No. 1. Part of REEDVILLE, VINCINIA (5-6-65)	The within-described LICENSE is hereby renewed for ONE YEAR
The within-described LICENSE is hereby renewed for ONE YEAR	•
from MAY 20, 19 65/	from 16 JUNE 19 68
- Had to delacas	Sent Hacip & France
[Seal] Deputy Collector of Customs_	Documentation Office to the common of the co
	Renewal No. 5. Port of REEDVILLE, VIRGINIA (6-6-69)
Renewal No. 2. Part of PERDVILLE, VIRGINIA (5-25-66)	The within-described LICENSE is hereby renewed for ONE YEAR
The within-described LICENSE is hereby renewed for ONE YEAR	
from MAY 25; 19.66	from 16 JUNE 19 69.
	Seell YIPANDA GUARO
[Seal] Alady & Beares	Documentation diffice Freehoods by South
	Renewal No. 5. Port of
Renewal No. 3. Port of REEDVILLE, VIRGINIA (5-16-57)  The within-described LICENSE is hereby renewed for ONE YEAR	The within-described LICENSE is hereby renewed for ONE YEA
16 JUNE 1067	from 19
from	

Deputy Collector of Customs.

## THE UNITED STATES OF AMERICA

OFFICIAL Ho.	COMPAND STATE COLLEGE
257819	₩C 5738

TREASURY	DEPARTMENT
BUREAU	OF CUSTOMS

•	
e . Distribution	
Service Fishing	
	•
Horsepower 550	

Measared	ofBeaufort, N. C	1949.
Rebuilt at		19

Service Fishing	
Horsepower 550	-
Hotsepower , Clark	

## Consolidated Certificate of Enrollment and License

comenta <b>n, 12 12 2,</b>	Regulation of Vessels in Domesti		solded of the olined oldes
л	I II (MDDAGO of Doca Mondo)	mah Nam James DDDCIDD	.m
	I. H. CUBBAGE of Port Monmo		that
			inar
· F	ISH HAWK, INC.		
P	ort Monmouth, New Jersey		
	INCORPORATED UNDER THE LAWS		
	MOORI ORRIGO VALUE LAND	OF THE GIRLS OF DEDRHERA	ž
		· · · · · · · · · · · · · · · · · · ·	
4.74			
<u>्री कः</u> ज स्व.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************
7 <del>2</del> 2 <del>2</del> 2 <del>2</del>	·		
IS A	•		•
		the sole owner of the vessel called the	
• <u>r</u> ,	ISHHAWK (Nume of years) year 1 949, at Beaufort, N.	of New Y	Ork, N. Y.
	jear 1 949 , at BERUTOTL, N. issued at New York, N. Y.		
••	D		arrendered:
and			having certified that
the said vessel is a 10	oil sorew		: that she has
one deck ,one	mast, a straight		ound stern; that
her register length is134.2		23.7	er register depth 11.8 To feet,
her height	at she measures as follows: 11		
			TORS 100ms
	ge deck		
	, mast, trunks		
,		GROSS TONNAGE	
Deductions under Section 4153,	Revised Statutes, as amended (Section 77, tit	tle 46, United States Code):	
	Master's cabin		
	Anchor gear		
Chart house	Donkey engine and boiler	Radio house	
Storage of sails	Propelling power (actual space 30.5		
		TOTAL DEDUCTIONS	
The following described above	and an other home been emissed air. Posse	NET TONNAGE	
' '	, open forecastle		
			closets, anchor gear
	_, steering gear, light and air spa		
And 12	En	having agreed to t	the description and measurement above specified
the said vessel has been duly ENROLLE		ENSE	
And H.	H. CHBRAGE	ment than is herein specified, or in any tro	ter, having sworn that he is a citizen of the Unite 2de or business whereby the revenue of the Unite
States may be defrauded:	• •		
LICENSE is hereby granted for the from the date hereof, and no longer.	said vessel to be employed in carrying on the	MACKEREL F. (Coasting Trade, God Fighery,	ISHERY for ONE YEA or Mackerel Flahery)
•	ler my hand and seal at the PORT of	NEW YORK, N. Y.	· · · · · · · · · · · · · · · · · · ·
	of NEW YORK		day of MAY
	year One Thousand Nine Hundred andSI		
		₽⊽ X	of fotocas
<sup>1</sup> Insert name and address of norms he when	m onth or affirmation was made.	On the first document of some	Marine Officer ANDERNACTION  Write is this blank "certificate of — builder." On ever
Insert name and address of person by when 2 Substitute "affirmation" when necessary. 2 Substitute "affirmed" when necessary. 4 Insert the name and business address of the and business address of one of the owners (manage).	e owner. If there are two or more owners, give the name ring owner, if one has been designated, and the necession	document other than the first, refits whethe kind, number, data, and place of issue of former document was surrendered, and the r "Write "sold mandates" build smallered	I, write in this blank "certificate of builder," On ever the last former document was permanent or temporary, it such former document, whether the original or a copy of the waten for issue of the new document.

#### PREFERRED MORTGAGE ENDORSEMENT

(MERCHANT MARINE ACT, 1876 SEC. 19-II. S. C., TITLE M. CHAPTER II)

#### MORTGAGE DESCRIPTION (SUBBECTION DC)

Mortgagor
Mortgagee
Endorsed, 19, at m.
Total amount, \$
Date of maturity, 19
Discharge amount, \$
Port of
[SEAL]
Deputy Collector of Customs.
MORTGAGE DISCHARGE
(SUBSECTION GB)
Port of
, 19
The sum of \$has been
paid on the above-described mortgage, the certificate
of such discharge being filed in this office and recorded
, 19, at m.~-
[SEAT.]
•
Deputy Collector of Customs.

#### Official No.257819

Customs Form 1271

TREASURY DEPARTMENT BUREAU OF CUSTOMS

PERMANENT

#### **Consolidated Enrollment and License**

FOR THE
FISHERTES
(Insert "Coasting Trade" or "Reherles")
No. 368
of the
O11_Sarew
CALLED THE
PISHHAWK
or
New York, N.Y.
283 : gross, 229 net,
ISSUED AT THE
Port ofNEW YORK, N.Y.
APRIL 17th, 1957.
WHERE SURRENDERED:
NEW YORK, N. Y.
WHEN SURRENDERED:

RENEWAL SPACES FILLED

MAY 20th. 1964 WHY SURRENDERED:

P.E. NO. 265 ISSUED

JOSEPH T. KELLY TOOLLECTOR
By Shockets
Customs Barine Officer

Debuty Collector of Customs.

#### . PREFERRED MORTGAGE ENDORSEMENT

(MERCHANT MARINE ACT. 1916, SEC, 25—U, R. C., TITLE 48, CHAPTER 11)

#### MORTGAGE DESCRIPTION

Mortgagor	·
Mortgages	
Endorsed	, 19, at m.
Total amount, \$.	
Date of maturity	
J.	t, \$
Port of	
[SEAL]	
	Deputy Collector of Gustams.
м	ORTGAGE DISCHARGE (SUBSECTION GB)
Port of	(-
The sum of \$	has been
paid on the abo	ve-described mortgage, the certificate
of such discharge	being filed in this office and recorded
	, 19, at m.

Deputy Collector of Customs.

ENDORSEMENTS OF C	HANGE OF MASTER
of REEDVILLE, VIRGINIA MAY 20 1957	(7) Port of, 19
Miley VI. Lewis having taken the oath	having taken the oath
equired by law, is et present master of the within-named vessel, vice	required by law, is at present master of the within-named vessel, vice
Deputy Collector of Customs.	Depaty Collector of Costoms.
(2) Port of Reedville, Virginia February 16, 1961	(8) - Port of, 19
Warner Haynie having taken the ooth	having taken the oath
required by law, is at present master of the within-named vessel, vice Riley H. Lewis	required by law, is at present master of the within-named vessel, vice
Alpalp S. Capary Deputy Collector of Customs.	Deputy Collector of Costoms.
(3) Port of Reedville, Va. May 22, 19 61	(9) Part of 19
Wiley H. Dewis having taken the oath	having taken the oath
required by law, is at present master of the within-named vessel, vice	required by law, is at present master of the within-named vessel, vice
Made M. Gelas P. Depity Collector of Customs.	, Deputy Callectar of Customs.
(4)	(10)
Part of	Port of 19
equired by law, is at present master of the within-named vessel, vice	required by law, is an present master of the within-named vessel, vice
, Deputy Collector of Customs.	Deputy Collector of Customs.
(5)	(11) Port of
ort of	having taken the oat
having taken the oath equired by law, is at present master of the within-named vessel, vice	required by law, is at present master of the within-named vessel, vice
Deputy Collector of Customs.	Deputy Collector of Customs.
(6) Port of 19	(12) Port of
having taken the oath	having taken the oatl
equired by law, is at present master of the within-named vessel, vice	required by law, is at present master of the within-named vessel, vici
, Deputy Callector of Customs.	Deputy Collector of Castoms.
ENDORSEMENT	S OF RENEWAL
Renewal No. 1. Port of REEDVILLE, VIRGINIA	Renewal No. 4. Port of Readville, Va. (5-22-61)
The within-described LICENSE is hereby renewed for ONE YEAR	The within-described LICENSE is hereby renewed for ONE YEA
100 A 400 A	
Y UXTIMA	from June 2, 19 61
[Seal] Deputy Callector of Customs.	[Seel] Alady A Collector & Contam.
Renewal No. 2. Port of REEDVILLE, VA., (5-28-59.)	Renewal No. 5. Port of Reedville, Va. (5-15-62)
The within-described LICENSE is hereby renewed for ONE YEAR	The within-described LICENISE is hereby renewed for ONE YEA
from	from JUNE 2, 19 62 / 2
[Seal] Deputy Collector of Custams.	[Seal] Life de for Colomo.
Renewal No. 3. Port of REEDVILLE, VIRGINIA	Renewal No. 6. Part of REEDVILLE, SURGENIA (5-21-63)
The within-described LICENSE is hereby renewed for ONE YEAR	The within-described LICENSE is hereby renewed for ONE YEA
IIIN a saka	77777
[Seal] Sesh Marz	from JUNE 2. 1963
Deputy Collector of Customs.	Deputy Collector of Costoms.

## THE UNITED STATES OF AMERICA

DFFICIAL NO.	AND SIGNAL TALLERS
257819	WC 5738

- , , , , , , , , , , , , , , , , ,	TREASURY DEPARTMENT
Beaufort, N.C. 1949	BUREAU OF CUSTOMS

Service Fishing	 
Number of crew, INCLUDING master	
Horsepower 550 011 Engine	

## Consolidated Certificate of Enrollment and License

<u> </u>		<del></del>	
	H. H. CUBBAGE, of Port M	Ionmouth, New Jersey.	President.
g taken and subscribed the oath 2.		equired by law, and having sworn?	that
······································			
	FISH HAWK, IN	IC.	
	of Port Monmouth, New Je		· · · · · · · · · · · · · · · · · · ·
I	ncorporated under the laws of	of the State of Delaws	are
			•
	-		
т	S A	<del></del>	· · · · · · · · · · · · · · · · · · ·
	citizen of the United States and th	•	
t data at the state of	FISHHAWK  (Name of ressel)  year 1 949 , at Beaufort, N.	of	New York, N.Y.
rat the said vessel was built in the bears by P.E.No. 500. i	sear 1 3773 , at Beautort, N. sesued at New York, N.Y. on M.	May 21,1951. now surre	of 'wood CHANGED.
			_
	said enrellment		having certified th
id vessel is a 16	OLI SCP8W		- ; that she h
12/	mast , a straight  2 ro feet, her register breadth	stem, and a I	round stern; th
pacity between decks above tonna	rge deck		
houses—deck 32.74_, side	masi, trunks	; excess hatchways 1.82; lig	ght and air 47 20
	·	GROSS TONNAGE	
	, Revised Statutes, as amended (Section 77, title  Master's cabin	•	
•	Anchor gear		
hart house	Donkey engine and boiler	Radio house	
orage of sails	Propelling power (actual space 30.9)		l .
		TOTAL DEDUCTIONS	
	, and no others, have been omitted, viz: Forepe	NET TONNAGE	
The following-described chance		<u>ша — , азгетреак</u>	, other spaces (except double
			n shelter deck aben harren
ttoms) for water ballast	, open forecastle, open bridge	, ореп роор	n shelter deck, open houses ater-closets anchor =ear
ttoms) for water ballast, companions .*	, open forecastle, open bridge 99, galley <b>5.86</b> , skylights	, ореп роор	ater-closets, anchor rear
ottoms) for water ballastbins	, open forecastle, open bridge 99, galley <b>5.86</b> , skylights	open poop, open, open, wheelhouse 3.59, we ss 21.28, other machinery spe	ater-closets, anchor gear aces 5.51
ittoms) for water ballastbius	, open forecastle, open bridge	open poop, open, open, wheelhouse 3.59, we ss 21.28, other machinery spe	ater-closets, anchor gear aces 5:51
ttoms) for water ballastbins	, open forecastle, open bridge	open poop, open, open, wheelhouse 3.59, we ss 21.28, other machinery spe	ater-closets, anchor gear aces 5.51
ttoms) for water ballastbins	, open forecastle, open bridge	open poop open open open open open open	ater-closets, anchor gear
stions) for water ballast	, open forecastle, open bridge	, open poop, open, open, wheelhouse 3.59, we so 21.28, other machinery spotential particles agreed having agreed ENSE, the result than is herein specified, or in any MACKERELS F	ater-closets
hittoms) for water ballast	, open forecastle, open bridge	, open poop, open, open, wheelhouse 3.59, wheelhouse 3.59, where s 21.28, other machinery spotential particles agreed, the remarks than is herein specified, or in any	ater-closets, anchor gear
ottoms) for water ballast  thins, companions, so  ankey engine and boiler  And 12  and vessel has been duly ENROLLI  And  es, that this license shall not be used es may be defrauded:  LICENSE is hereby granted for the the date hereof, and no longer.  GIYEN una	, open forecastle, open bridge	, open poop, open, open, wheelhouse 3.59, we es 21.28, other machinery spot, having agreed ENSE, the result than is herein specified, or in any	ater-closets
ttoms) for water ballast	, open forecastle, open bridge	, open poop, open, open, wheelhouse 3.59, we so 21.28, other machinery specified agreed  ENSE, the result than is herein specified, or in any	ater-closets, anchor gear aces 5.51  I to the description and measurement above specific  master, having sworn that he is a citizen of the Unit y trade or business whereby the revenue of the Unit PISHERY for ONE YE.
ttoms) for waier ballast	, open forecastle, open bridge	, open poop, open, open, wheelhouse 3.59, we so 21.28, other machinery specified agreed  ENSE, the result than is herein specified, or in any	ater-closets

#### PREFERRED MORTGAGE ENDORSEMENT Official No. 257819 PREFERRED MORTGAGE ENDORSEMENT (MERCHANT MARINE ACT, 1128, SEC, 16-M, M. C., TITLE OF CHAPTER 29) Customs Form 1271 (MERCHANY MARINE ACT, 1979, SEC. 39-U. S. C., TITLE M. CHAPTER 25) MORTGAGE DESCRIPTION TREASURY DEPARTMENT MORTGAGE DESCRIPTION (SUDSECTION DC) BUREAU OF CUSTOMS (SUBSECTION DC) PERMANENT (Permanent or Temporary) Mortgagor Mortgagor . Consolidated Enrollment and License Mortgages Endorsed ... FOR THE" Endorsed FISHERIES Total amount, \$ '{Insert "Coasting Trade" or "Piaherles" Total amount, \$ Date of maturity Date of maturity OF THE 011 Serew Discharge amount, Discharge amount, \$ CALLED THE FISHHAWK and, or Port of New York, N.Y. SEAL] Deputy Collector of Customs. Deputy Collector of Customs. ISSUED AT THE MORTGAGE DISCHARGE Port of NEW YORK, N.Y. MORTGAGE DISCHARGE (SUBSECTION GB) (SUBSECTION GB) MAY 21st Port of WHERE SURKEMBERED: . . SERVET TORK, N. Y. WHEN SURRENDERED: The sum of \$. paid on the above-described mortgage, the certificate paid on the above-described mortgage, the certificate of such discharge being filed in this office and recorded of such discharge being filed in this office and recorded [SEAL] [SEAL] Gust (Deputya Dollector of Customs. Deputy Collector of Customs. Deputy Collector of Customs. 10-21710-1

ENDORSEMENTS OF	HANGE OF MASTER	
Port of REEDVILLE, VA. , May 24, 19 51	Port of REEDVILLE, VA., MA	Y 16, 1955
LEN O.LOWRY, having taken the oath	WILEY H.LEWES	
quired by law, is at present master of the within named yessel.	required by law is at present master of the within Len 0.1	
Couctom marine officer of Carlons.		y Collector of Customs.
ort of KEEDVILLE, V. NOV 3 195219	(8) Part of	. 19
Tiberra Wellings		,
JAMES LUPTON , having taken the ooth quired by low, is at present master of the within-named vessel.	required by law, is at present master of the within	aving taken the oath -named vessel.
Deputy Collector of Custams.		ty Callector of Customs.
Reedville, Va., May 13, 1953	(9) Port of	, 19
Len C.Lowry having taken the oath		naving taken the oath
quired by law, is at present moster of the within-named vessel.	required by law, is at present master of the within	
ALON O 1052		ly Collector of Customs.
REEDVILLE VA NOV 9 1953	Port of	, 19
James of replace having taken the outh		having taken the oath
equifed by law, is at present chaster of the within-named vessel.	required by law, is at present master of the within	-named vessel.
CALL Deputy Collector of Customs.		ty Collector of Customs.
ort of REEDVILLE VA MAY 22 1954	Port of	, 19
LEN O. LOWRY having taken the oath equired by Law, is at present master of the within-named vessel.	required by law, is at present master of the within	having taken the oatl
Leal A. Marie Deputy Collector of Customs.		
ort of EEDVILLE, V4 NOV 5 1954 19	(12) Port of	
R. S. Willes having taken the oath		having taken the oat
equired by law, is at present master of the within-named vessel.	required by law, is at present master of the within	
Can A Mark Deputy Collector of Customs.		uty Callector of Costoms.
ENDORSEMEN	S OF RENEWAL	
Renewal No. 1. Port of PEFDVILLE, VA	* Renewal No. 4. Port of REEDVILLE, VA.	(5-16-55)
The within-described LICENSE is hereby renewed for ONE YEAR	The within-described LICENSE is hereby ren	
from JUN 3 1952 NO DO	from	1 Om
(South Carlotte Comments of the  [5(d]) 1.2-a. De	puty Collector of Castoms.	
Regiewal No. 2. Port of Readville, Va., (5-13-53)	Renewal No. 5. Port of REEDVILLE, VA.	-
The within-described LICENSE is hereby renewed for ONE YEAR	The within-described LICENSE is hereby rer	
from June 3, 1953	fromJUNE 3, 19.56	1000
is feel for	[Sept each	perly Callector of Costoms.
Renewal No. 3. Port of REEDVILLE, VE., (5-22-54)	Renewal No. 6. Fort of	•
The within-described LICENSE is hereby renewed for ONE YEAR	The within-described LICENSE is hereby res	newed for ONE YEA
from	from19	•
social Allian	; te. );	••
THE RESIDENCE OF THE PROPERTY.	De De	paty Collector of Customs.

PERMANENT OR TEMPOR	ARY
- PERMANENT	ı

CERTIFICATE No.

## THE UNITED STATES OF AMERICA

	· · · · · · · · · · · · · · · · · · ·
OFFICIAL No.	THE STANK LETTERS
257819	-

Measured at Beaufort, N.C. 19 49

TREASURY DEPARTMENT BUREAU OF CUSTOMS

Service Fighing	
Number of erew, INCLUDING mester 21	_
Horsepower 550	_

Consolidated Certificate of Enrollment and License

•		<del></del> '		<b>i</b>		·
In Conformity to Title L, "R	egulation of Vessels	in Domestic C	ommerce," of the F	Revised Statutes of the	United States	
•			<del></del>			
			w t. DDCcTDG	rm		
	W, SMITH, of Po					<del></del> .
aving taken and subscribed the oath 2	<u> </u>	requi	red by law, and having	sworn 3		tha:
-			4-14- 14-14-14-14-14-14-14-14-14-14-14-14-14-1			
1	ATLANTIC NAV	TO AME ON COM	D ANV			
	ATLANTIC NAV	IGATION COM	rant,			
	of Port Monm	outh, New J	ersey,			
		_		<u>-</u>		
Incor	porated under th	te laws of t	he State of New	Jersey,	<del></del>	
	•					
	· · ·					
Is A	s citizen of the Uni	ted States and the s	ole owner of the vessel o	called the ========		<del></del>
FISHHA			, of	NEW YO	ORK, N.Y.	
and that the said vessel was built in the year	Name of cresel) r 1 949 , at Ber	aufort, N.C.	17 10/0	(Home port	rood	<del></del>
and that the said vessel was built in the year as appears by P.E.NO.558. 188U	ed at New York,	N.Y., on Juz	1e 15,1949,now	Surrendered, PROP	CRTY CHANGED	•
	hias	enrollment			having cer	tified that
and b the said vessel is a 10		11 screw		-		at she has
		raight	: stem, and a	round	5	tern; that
her register length is 134.2	feet, her reg		23.7	_16 feet, her register depth	11.8	—10 feet
her heightin feet; that			•	•		
And Hongin Line					TONS	100mcs
Capacity under tonnage deck		<i></i> .		·	236	41_
Canada between decks above tonnage	deck			12.66		-
Capacity of enclosures on the upper de houses—deck 32.74, side	ck, viz: Forecastle	; bridge A	1 : 95	break 12 a O4	47	20
houses—deck 22 • 14, side	, chart	, radio;	Gross Tonnage	ight and air	283	61
Deductions under Section 4153, Re	eniced Statutes as amended	l (Section 77, title 4		1		
Crew space	•				.	
Steering gear			Boatswain's stores	· ————	-   `	
01 11 11	Donkey engine and bo	iler	Radio ho	use	-	
Storage of sails	Propelling power (act	ual space 30.90	175 P.P. 54	•0/		07
	, ,		TOTAL DEDUCTIONS		229	1=
The following-described spaces, as		to the Property	NET TONNAGE			at double
The following-described spaces, as bottoms) for water ballast	id no others, have been om	utea, mz: rorepean	ohen boob	open shelter deck	cabins	
companions 99, galley 6.86	ekuliahte	wheelhouse 3.5	9 _ water-closets	, anchor gear	, condenser	
donkey engine and boiler,	nteering gear, l	ight and air spaces	21.28 , other mach	hinery spaces <u>6.51</u> ,_		
				g agreed to the description a	nd manusement abo	······································
And 12	ALC: BORT.		данк	g agreed to the description o	at mossification so	
the said vessel has been duly ENROLLED	at this PORT:	LICE	NSE	•		
	HARVEY W. S	<u>-</u>	•••	, the master, having sworn	that he is a citizen o	f the Uπit
And  States, that this license shall not be used for	or any other vessel, or for an	ny other employmer	nt than is herein specified,	, or in any trade or business w	hereby the revenue o	of the Unit
States may be defrauded:				REL FISHERY		ONE YE
UCENSE is hereby granted for the sa from the date hereof, and no longer.	ia vessei to de employea in		(Consting Tre	ide, Cod Fishery, or Mankerel Fisher;		
GIYEN under	my hand and seal at the P	OK1 0)	W YORK, N.Y.	non-nipon 2	ar =	
District	of NEW Y			NTY-FIRST day of	IAI	The
in the y	ear One Thousand Nine Hun	idred and <u>FIFT</u>		Lan	OURNING, COLLEC	Jahn.
1 Insert name and address of person by whom 2 Solutions "affirmation" when necessary. 5 Substitute "affirmed" when necessary.	outh or affirmation was made.		On the first documen document other than the fi kind, number, date, and p	t of a new vessel, write in this blan rat, recite whether the last former di lars of issue of such former docume	k "certificate of boi coment was permapent on nt, whether he original	ider." On er or temporary, or a copy of

ng aya maragamang man ga a ga a ga a ga a ga a ga		-773
PREFERRED MORTGAGE ENDORSEMENT	Official No. 257819	PREFERRED MORTGAGE ENDORSEMENT (MERCHANT MARKE ACT. HAS ME. NU., S. C., VIII.E A. CHAPTER 41)
MORTGAGE DESCRIPTION (guasection de)	TREASURY DEPARTMENT BUREAU OF CUSTOMS	MORTGAGE DESCRIPTION
	PERMANENT (Permanent or Temporary)	Mortgagor
Mortgagor	Consolidated Enrollment and License	Mortgages
Mortgagee  Endorsed ,19 , at  m.  Total amount, \$	FOR THE FISHERIES: (Insert, "Coasting Tried", or "Picheries")	Endorsed, 19, at m.  Total amount, \$
Date of maturity	No. 558	Date of maturity, 3
Discharge amount \$	011 Serew  CALLED THE  PISHHAWK	Discharge amount, \$
Port of	New York, N.Y.	Port of
	283 gross, 229 net,	Deputy Collector of Customs.
Deputy Collector of Customs.  MORTGAGE DISCHARGE	ISSUED AT THE Port of NEW YORK, N.Y.	MORTGAGE DISCHARGE (BUBBECTION GB)
(subsection ab)	JUNE 13th ,,49.	Port of
Port of	WHERE SURRENDERED: NEW YORK, N. Y.	
The sum of \$ has been	MAY 2 1 1951	The sum of \$has been paid on the above-described mortgage, the certificate
paid on the above-described mortgage, the certificate	Varperly Changea	of such discharge being filed in this office and recorded
of such discharge being filed in this office and recorded	PF No. 500 same	19 19 at m.
[SEAL]	HARRY M. DURALAG, COLLECTOR	T. (Opan)
Deputy Collector of Cuttoms.	Deputy Collector of Californs. 10-21815-1	Deputy Collector of Customs.

D'	(7)
ort of REMOVILLE, VA. , May 13. , 19.50	Port of, 19
HENRY NAGLE having taken the oath	, having taken the oath
equired by law, is at present master of the within-named vessel.	required by law, is at present master of the within-named vessel.
COUNTY TO THE PARTY CONTENTS OF Customs.	Deputy Collector of Castoms.
Poit of REEDVILLE, VA., November 1019 50	(8) Port of
- (a)	
LEN O. LOWRY having taken the oath equired by law, is at present master of the within-named vessel.	required by law, is at present master of the within-named vessel.
CONTROL STORY CONTROL CONTROL	Deputy Collector of Customs.
(3) Port of,, 19	(9) Port of
	•
required by law, is at present master of the within-named vessel.	required by law, is at present master of the within-named vessel.
Deputy Collector of Customs.	, Deputy Collector of Customs.
(4) Port of	. Port of
required by law, is at present master of the within-named vessel.	required by law, is at present master of the within-named vessel.
-	
	Deputy Collector of Customs.
Port of	Port of,, 19
, having taken the oath	having taken the oath
required by law, is at present master of the within-named vessel.	required by law, is at present master of the within-named vessel.
Deputy Collector of Customs.	(12) Depaty Collector of Certains.
Port of 19	Port of, 19
having taken the oath required by law, is at present master of the within-named vessel.	having taken the oath required by low, is at present master of the within-named vessel.
, Depoty Collector of Customs.	•
	Departy Collector of Castows.  S OF RENEWAL
	- Vr. Namerran
Renewal No. 1. Part of REEDVILLE, VA.; (5-13-30)	Renewal No. 4. Port of
The within-described LICENSE is hereby renewed for ONE YEAR	The within-described LICENSE is hereby renewed for ONE YEAR
from June 13, 1950	from
I Scott State Collector of Customs	[Seal] Deputy Collector of Cartoms.
(customs marineofficer)	
The within-described LICENSE is hereby renewed for ONE YEAR	Renewal No. 5. Port of The within-described LICENSE is hereby renewed for ONE YEAR
front, 19	from19
[Seal]	[Seal]
Renewal No. 3. Port of	Renewal No. 6. Port of
The within-described LICENSE is hereby renewed for ONE YEAR	The within-described LICENSE is hereby renewed for ONE YEAR
from 19	from19
ici	
Deputy Collector of Customs.	[Seal] Deputy Collector of Customs.

# THE UNITED STATES OF AMERICA

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OFFICIAL NO.	AND SIGNAL LETTERS
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257819	(

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deasured at	DOWN AVOI	X.sX		17

TREASURY DEPARTMENT BUREAU OF CUSTOMS

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•				21	<del>-</del> -	<u> </u>	
i larsepower.				****			<i>-</i>
T	TOT /	101	041	En at a	•		

Consolidated Certificate of Enrollment and License In Conformity to Title L, "Regulation of Vessels in Domestic Commerce," of the Revised Statutes of the United States J. HOWARD SMITH, of Port Monmouth, N. J. SECRETARY, \_ required by law, and having sworn 3 having taken and subscribed the oath 2 J. HOWARD SMITH, INCORPORATED of Port Monmouth, New Jersey, Incorporated under the laws of the State of New Jersey, M.or IS A citizen of the United States and the sole owner of the vessel called the FISHBAWK NEW YORK, N.Y. and that the said vessel was built in the year 1 949, at Beaufort, N.C. at appears by P.E.NO. 13-D, issued at Beaufort, N.C., May 20,1949, now surriendered; PROPERTY AND HOME PORT CHANGED. said enrollment having certified that and 5\_ ; that she has oil screw round straight \_ deck , One stem, and a \_ 10 feet; that she measures as follows: 11 41 Capacity under tonnage deck . . Capacity between decks above tonnage deck . . . 20 \_; excess hatchways 1.82 61 Deductions under Section 4153, Revised Statutes, as amended (Section 77, title 46, United States Code): Donkey engine and boiler \_\_\_\_ Propelling power (actual space 30.90nl ) 175% P.P. 54.07 TOTAL DEDUCTIONS NET TONNAGE . . The following-described spaces, and no others, have been amitted, viz: Forepeak \_\_\_ \_\_\_\_\_, open shelter deck \_ \_\_\_\_\_, open forecastle \_\_\_\_\_\_, open bridge \_\_\_\_\_\_, open poop \_\_ bottoms) for water ballast ..... \_, skylights \_\_\_\_\_, wheelhouse 3.59 , water-closets \_\_\_\_\_, anchor gear \_\_\_\_ companions <u>199</u>, galley <u>6.86</u> \_, light and air spaces 21.28 \_, other machinery spaces 5.51 donkey engine and boiler \_\_\_\_\_, steering gear \_\_\_\_ the said vessel has been duly ENROLLED at this PORT: LICENSE , the master, having sworn that he is a citizen of the United J. HOWARD SMITH States, that this license shall not be used for any other vessel, or for any other employment than is herein specified, or in any trade or business whereby the revenue of the United MACKEREL FISHERY UCENSE is hereby granted for the said vessel to be employed in carrying on the from the date hereof, and no longer-NEW YORK, N.Y.

GIVEN under my hand and seal at the PORT of

in the year One Thousand Nine Hundred and FORTY-NINE

HARRY M. DURNING DOLLECTOR

# PREFERRED MORTGAGE ENDORSEMENT

(MERCHANT MARINE ACT, 1928, SEC, M-U. S. C., YTELE M, CHAPTER 25)

# MORTGAGE DESCRIPTION (BUBBECTION DC)

Mortgagor	<u>.r</u>	
**	••	
Mortgagee		
Endorsed	, 19,	at
Total amount, \$		
Date of maturity		
7	٠.	
	,;	
Discharge amount, \$		
·	·	
Port of	<del></del>	
[SEAL]		

### Deputy Collector of Customs.

# MORTGAGE DISCHARGE (SUBSECTION GB)

Port of
, 1g
The sum of \$has bee
paid on the above-described mortgage, the certificat
of such discharge being filed in this office and recorde
, 19, at n
[SEAL]

#### Deputy Collector of Customs.

# Official No. 257819

Customs Form 1271

# TREASURY DEPARTMENT Bureau of Customs

Permenent or Temporary)

# Consolidated Enrollment and License

FOR THE

 Mackerel Fighery (Insert "Consting Trade" or "Fisheries")
 No. 13 - D
OF THE
Oil screw
 CALLED THE
W FISH HAWK U
 or

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229 AT THE	nel,

			1
Part of	Best ort.	North	Garolina

_ KA	20,	, 19 <b>49</b> .

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WHEN	SURRENDERED: JUN	1 3 1949		W)
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Nonety +	Home Po	the	ranges
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0/	
HARRY M. DERNING,	COLLECTOR
1/1	
BY Debuty Colle	utar.af.Cold&A

10-21310-1

#### 16-21310-1

# PREFERRED MORTGAGE ENDORSEMENT

(MERCHANT MARINE ACT, 1912, SEC, 10-Q, S. C., 7/11K 48, CHAPTER 25)

## MORTGAGE DESCRIPTION

(BUBSECTION DC)

1...

Mortgagor	
•	
Endorsed	, 19, at1
Total amount, \$	,
Date of maturity	, 19
Port of	
[SEAL]	•
	Deputy Collector of Customs

# MORTGAGE DISCHARGE (SUBSECTION GB)

, Port of
, 19
The sum of \$ has been
paid on the above-described mortgage, the certificate
of such discharge being filed in this office and recorded
, 19, at m

[BEAL]

Deputy Collector of Gustoms.

ENDORSEMENTS OF CH	IANGE OF MASIER
to Beautant n.C. may 27, 19 149	(7) Port of
012101	the section of
ued My Haynee, having taken the outh	having taken the oath
ired by law is at present inacter of the within-named vessel.	required by law, is at present moster of the within-named vessel.
Ofre Jourged Deputy Collector of Cartoms.	Deputy Collector of Customs,
	(8)
of	Port of
· · · · · · · · · · · · · · · · · · ·	having taken the oath
ired by law, is at present master of the within-named vessel.	required by law, is at present master of the within-named vessel.
red by Idw, is at present master of the within	•
Deputy Collector of Customs.	Depáty Callector of Cattoms.
;	(9) Port of 19
of	· ·
having taken the oath	having taken the oath
aired by law, is at present master of the within-named vessel.	required by law, is at present master of the within-named vessel.
	, Deputy Collector of Customs.
Deputy Collector of Customs.	(10)
of, 19	Port of 19
'	, having taken the out
uited by law, is at present master of the within-named vessel.	required by law, is at present master of the within-named vessel.
ured by law, is at present master of the willun-hander tosses.	
Deputy Collector of Customs.	Deputy Collector of Customs.
	Port of
t. of 19	1 .
having taken the oath	having taken the oat
quired by law, is at present master of the within-named vessel.	required by law, is at present master of the within-named vessel.
•	
Deputy Collector of Castoms.	(12)
rt of	Port of
having taken the oath	
quired by law, is at present master of the within-named vessel.	required by law, is at present master of the within-named vessel.
j. ''	,
Deputy Collector of Customs.	Deputy Collector of Castoms.
. ENDORSEMENT	TS OF RENEWAL
	The state of the s
enewal No. 1. Port of	Renewal No. 4. Port of
The within-described LICENSE is hereby renewed for ONE YEAR	, T. C.
от, 19	: · from 19
[Seei]	[Seal] Deputy Collector of Custom
[Seal] Deputy Collector of Customs.	Deputy Collector of Custom
Control of the contro	Renewal No. 5. Port of
Renewal No. 2. Port of hardy assented for ONE YEAR	The within-described LICENSE is hereby renewed for ONE YE
The within-described LICENSE is hereby renewed for ONE YEAR	#
from	
[Seal]	- [Seal]
[Seal] Deputy Collector of Customs.	Schart descen a cana
Renewal No. 3. Port of	Renewal No. 6. Port of
The within-described LICENSE is hereby renewed for ONE YEAR	The within-described LICENSE is hereby renewed for ONE YE
•	from
from 19	
[Seal]	[Seal] Deputy Collector of Custon

· vigirality .

PERMANENT OR TEMPORARY		T
Permanent	ľ	

# HE UNITED STATES OF AMERICA

OFFICIAL No.	CONGRESS EXDAS CALL
257210	

CERTIFICATE No. 1.2	· TREASURY DEPARTMENT
asured at Bosufort, N. C. 19 49	BUREAU OF CUSTOMS
built of	•

Service Fishing Number of crew, INCLUDING master ...

# Consolidated Certificate of Enrollment and License

_		٠.
H. W. Smith, of P. O. Box 38, Beanfort,	Worth Carolina	
ng taken and subscribed the oath 2	quired by law, and having sworn	f
	······································	·
ho is a		
		<del></del>
		$\overline{\lambda_L}$
·	e sole owner of the vessel called the	
H F I S H H A W K H	Beaufort, N. (Hea	me port)
that the said vessel was built in the year 1 949, at Beaufort, North Car	rolina , of	7
sppears by . RervifSmith of H. W. Smith, Master Carpenter of the	he Fish Meal Company, Builders of Be.	DI OFG N. G.
Cartificate of K. K. Kiamell, U. S. Admeasurer of Wilm	inston. N. C.	having certified
said bessel is a 10 cil screw		that sh
One deck Ora mast , a Straight	stem, and a Round	stern;
register length is 134 275 feet, her register breadth	23 7 feet, her register e	depth <u>11</u> 8
height feet; that she measures as follows: 11		
		TORS 10
Capacity under tonnage deck		236 4
Capacity between decks above tonnage deck		$\frac{12}{32}$ $\frac{6i}{7i}$
Capacity of enclosures on the upper deck, viz: Forecastle, bridge _	; break 12.0	<u></u>
houses—deck 32.74, side, chart, radio	_; excess hatchways; light and air GROSS TONNAGE	283 6
Deductions under Section 4153, Revised Statutes, as amended (Section 77, title		
Crew space Master's cabin		
Steering sear Anchor gear	Boatswain's stores	
Steering gear Anchor gear Chart house Donkey engine and boiler		
Storage of sails Propelling power (actual space 30.	90 ) 175% P. P.	54 0
• ,	TOTAL DEDUCTIONS	
•	NET TONNAGE	229 =
The following-described spaces, and no others, have been omitted, viz: Forepe	ak, afterpeak	, other spaces (except dor
bottoms) for water ballast, open forecastle, open bridge	, open poop, open shelter de	ck, cabins
companions 99, galley 6.86, skylights, wheelhouse 3. donkey engine and boiler, steering gear, light and air space	21.28	, condenser
donkey engine and boiler, steering gear, tight and air space	es, other machinery spaces	
And 12 H. W. Staith	having agreed to the descrip-	tion and measurement above sp
e said vessel has been duly ENROLLED at this PORT:		
LIC	ENSE	
And H. W. Smith	the master, having	sworn that he is a citizen of the
tates, that this license shall not be used for any other vessel, or for any other employm	nent thân is herein specified, or in any trade or busi	ness whereby the revenue of the
tates may be defrauded:  LICENSE is hereby granted for the said vessel to be employed in carrying on the rom the date hereof, and no longer.	MACKEREL, FISHERY (Coasting Trade, Cod Fighery, or Mackerel	Fishery) for ONE
GIVEN under my hand and seal at the PORT of	Besufort, N. C.	<u>.</u>
District of North Carolina No. 15	, this 20 day of .	nsa –
	Mine	0 0
in the year One Thousand Nine Hundred and Fort	N1.	7
in the year One Thousand Nine Hundred and Fort	Deputy	Tongest Collector of Cu

# APPLICATION OF OWNER FOR OFFICIAL NUMBER

# UNITED STATES CUSTOMS SERVICE

	Place Beaufort,	N. C.		1, , 19 49	
To the Collector of Customs at Beaufort, North	Carolina				
	with the provisions	of R S 4177 a	s amended (46	U. S. C. 45), and	
regulations established pursuant thereto, for an Ol for a marine document:	FICIAL NUMBER	for the following	g-described vess	el, which is ready	
Name <sup>1</sup>   FISH HAWK				20	
Rig* Oil screw Gross tonnage -	283	Net ton	nage	27	à
Register dimensions: Length 134 2	Breadth23	16	Depth	<del>10</del>	,
Material of hull's Wood			_ Horsepower		
Builder Fish Meal Company			70/0	<del>_</del>	_
When begun 1949	When las	mched -	1949		1
When built 1949	There built (place an	l State) <u>Beau</u> l	fort, North C	arototina	
Type of engine' 6 Cylinder Atlas Disse	<u>type</u>				
Engine built by Atlas Imperial Mfg.	, at <u>Oaktland</u>	Calif.		, in 19_42	
Owner's H. W. Smith					
Address (street, city, and State) P. O. Box 3	8, Beaufort, No	rth Carolina	· <del>'</del>		
Service 11 Fishing	Number of office	ers1	Crew	20	
Application (is) (is not) made for award of radio-transmitting apparatus.					
T the this reason has not provinced.	oorne an official num	per and has nev	er been docume	nted as a vessel of	
the United States under the above or any other na	Me. H. W.	BMITH,	Sole owns	r Last a 1	
the United States under the above or any other no	11 Smuch	, Capacity <sup>s</sup>	. see o	will	
Signature "					
Please type or print name above					
				H. Sis	
PORT OF Beaufort, North C.	rolina		19 42	Official No. — A Signal or call letters — Home port —	
To the Commissioner of Customs,				l No. lor letter	
SIR: I transmit herewith the application for	assignment of an (	FFICIAL NU	MBER for the	the care	
vessel described above.	0147c	Longest	gest_		nodumita Republicant
·		Deputy Collec	tor of Customs.		andinanto of s
In addition to the information to be given herein, the	name or names of any for t fact shall he stated.	mer owner or own	ers shall be stated		3 8
In addition to the information to be given herein, the on the reverse hereof. If there was no former owner, the This application shall be filed in duplicate when fled otherwise, in triplicate.	with the collector at the	home port designa	ted for the vessel;		P. E.
	must be executed in dupl	icate and accompan	ry this application r name shall be stated	in parentheses following the	Take tr
Customs norm 1813, Designation on Tomer notice to exact,  laser the reselvation name exactly as it will be marked upon the was name under which it is intended to be decumented. If the vessel has be are under which it is wessel as "factor never" "[as acrew," "oil side a steam vessel, state whether it is designed to burn oil or coal; if elect though the vessel were proposited in whole by the engine.	rne a motorboat number, that r-wheel," "oil stern wheel," "i ric drive, whether turbs or oil	number shall be given thooner," "barge," or engine. If the vessel	in the same manner, some other appropriate is propelled by sail an	description. If the vessel is d machinery, give the rig as	sparking of official
a steam vessel, state whether it is designed to burn oil or comi; it esent though the vessel were propoled in whole by the against "If composite, so state.  "If composite, so state.  "Give indicated horsepower (EMP) for a reciprocating or bean st	sm engine, shaft horsepower t rive name of an officer of a c	(SHP) for a turbine.	brake borsepower (BH	P) for gas or oil engine.	2
Indicate the verse were processed in whom you may again.  If composite, so date,  Give indicated horsepower (HMP) for a reciprocating or bean st findicate, corporate the processed of the proces	he keel. Omit in the case of sear of launching. Omit in th	vessel of less than 100 case of a vessel of les	a than 100 gross tone.		Æ
I For a vessel of 100 gross tons or over, give the month, date, and ; Give the year of completion of the vessel, I indicate whether the engine is reciprocal; I indicate whether the engine is reciprocal; I indicate whether the engine is reciprocal; I indicate whether the engine is reciprocal; I indicate in the engine is owned by the United States of America, so is passenger, freight, banker, yacht, or some other approxists de in in the case of corporate ownership, the application shall be need that the case of corporate ownership, the application shall be need from one of the partners, or a daily authorized seem. In the case of it owner," provided there is filed with the collector a written authorize ity in which the person signs, whether as owner, managing owner, a the name of a corporation, firm, or partnership, the expectly in while aboves immediately after the magnet of two overgreads of the first owner of the complexity of the content of the complexity of the content of the con	d-combustion. If reciprocating ive the number of cylinders, fficer of a corporation. In the same followed by the words."	g, state whether single cycles, and kind of fu- case of ownership by to a represented by " and	<ul> <li>compound, triple, or al and if oil, state whe no or more individuals, the name of the Depa</li> </ul>	quadruple expansion; if tur- ther Diesel or semi-Diesel. the name of each owner shall riment or Agency concerned.	•
Passenger, freight, tanker, yacht, or some other appropriate of in the case of corporate ownership, the application shall be executed in the case of corporate ownership, the application shall be executed in the case of corporate ownership, the application shall be executed in the case of corporate ownership.	scription. uted in the corporate name an	shall be signed by the	president, secretary, a	specially authorized officer of and either by a member of the	
the corporation, or an authorized agent. In the case of a firm or par firm, one of the partners, or a duly authorized agent. In the case of in owner," provided there is filed with the collector a written authoriza	dividual ownership by two or tion for him to set in that cap	more persons, one of acity signed by the own	the owners may sign ters of a majority later elective. If an indicate	his own name as "managing est. In every case, the capac- ud executes the application in	
ity in which the person signs, whether as owner, managing owner, at the name of a corporation, firm, or partnership, the capacity in whic shown immediately after the name of such organization and the capa-	rent, member of him, coparing the organization name is si city in which the individual si	med, whether as owner med, whether as owner ms as representative of	r. managing owner, as of the organization, wh	nthorized agent, etc., shall be sether as president, secretary	1

2 - 98 9

# MORTGAGE DESCRIPTION (SUBSECTION DC) Mortgagor ..... Mortgages ..... Total amount, \$.... Date of maturity ..... Discharge amount, \$\_.... [SEAL] Documentation Officer. MORTGAGE DISCHARGE (BURSECTION GR) has been The sum of \$ .... paid on the above-described mortgage, the certificate of such discharge being filed in this office and recorded

Documentation Officer.

(SEAL)

PREFERRED MORTGAGE ENDORSEMENT

(MEDICHART MARRIED ACT, 1988, FIC. 39-41, 9, C. TITLE & CRAFTER SI)

Official No. 257819
CG-1271
DEPARTMENT OF TRANSPORTATION
UNITED STATES COAST GUARD
PEHMANENT
(Permanent or Temporary)
Consolidated Enrollment and License
for the
FISHERIKS
(Insert "Coasting Trade" or "Fisheries")
No72
0il Screw
CALLED THE
FISHHAWK
OF
NES YORK, N.Y.
283 gross, 229 net,
. ISBUED AT THE
Port of NEW YORK, N. Y.
NOVEMBER 20th 75
WHERE SURRENDERED:
NEW YORK, N.Y. WHEN SURRENDERED:
FEBRUARY 27, 1976 WHY SURRENDERED:
OUT OF DOTINENTATION FOLLOWING.
A CHANGE OF OWNERSHIP.
la A
TAIL
ROSE SETTEMBRINO  Documentation Officer.

GPO 949-240

# PREFERRED MORTGAGE ENDORSEMENT (HERCHART HARRISE ACT, 1836, SEC. 79—U, S. C., TITLE 48, CHAPTER 25) MORTGAGE DESCRIPTION Morigagor ... Mortgagee \_\_\_\_ Total amount, \$\_\_\_\_\_ Date of maturity \_\_\_\_\_\_, 19\_\_\_\_ Discharge amount, \$\_\_\_\_\_ [SEAL] Documentation Officer. MORTGAGE DISCHARGE (SUBSECTION GB) has been The sum of \$ .paid on the above-described mortgage, the certificate of such discharge being filed in this office and recorded PROCESSED AND TAPED DATE 7-28-76

# APPENDIX J: DIVE SAFETY PLAN

# DIVE SAFETY PLAN

Recordation of Six (6) Vessels in Connection with the New York
And New Jersey Harbor Navigation Study Upper and
Lower Bay, Port of New York and New Jersey Staten Island, Richmond County,
New York, and Elizabeth, Union County and Bayonne,
Hudson County, New Jersey

Contract No. DACW51-01-D-0015 Delivery Order No. 0023

#### Introduction

This document is the Dive Safety Plan to be employed by Panamerican Consultants, Inc., (Panamerican) of Memphis, Tennessee during diving operations for the New York District, U.S. Army Corps of Engineers (COE), to record six vessels determined during a Phase II assessment of 39 targets in 2002 to be eligible for inclusion on the National Register of Historic Places. This investigation will be conducted under subcontract to Matrix Environmental and Geotechnical Services, of Florham Park, New Jersey, for the New York District in response to their Scope of Work entitled Recordation of Six (6) Vessels in Connection with the New York And New Jersey Harbor Navigation Study Upper and Lower Bay, Port of New York and New Jersey Staten Island, Richmond County, New York, and Elizabeth, Union County and Bayonne, Hudson County, New Jersey, under Contract No. DACW51-01-D-0015, Delivery Order No. 0023.

The document provides an outline of procedures intended to: (1) ensure the safety of project divers, and (2) effectively and efficiently complete project goals and objectives. The diving operations for this project meet all federal requirements for safe diving. All diving activities are in accordance with the strictest provisions of U.S. Army Corps of Engineers, U.S. Navy, and Panamerican diving safety manuals and diving guidelines. The safety of project divers is given priority in all decisions and actions undertaken during diving operations. During all diving operations conducted as part of this project, all persons diving and working under the auspices of Panamerican shall abide by this Dive Safety Plan.

If for any reason the dive plan is altered in mission, depth, personnel, or equipment, the USACE Command Diving Coordinator (UDC) at the district level shall be contacted and shall review any revision prior to actual operation.

## Research Design

The purpose of diving operations is to record six vessels determined during a previous assessment to be eligible for NRHP status. As specified in the SOW and the Memorandum of Agreement (MOA), field project aspects will include:

- Archival research will be conducted pertaining to the history of the individual vessel as well
  as vessel type in order to place it within the proper historic context
- Diving Safety Plan Development
- Recordation of vessels
  - KVK Vessel 33 Manhaden Fishing Trawler Complete recordation including scantlings, profile, plan view of deck, and longitudinal cross sections. Also, recording of stern including rudder and propulsion, and the bow. Photo documentation will include 35mm and video.
  - KVK Vessel 36 Wooden hydraulic dredge Recordation of basic dimensions and photo documentation by 35mm and video.
  - KVK Vessel 37 Schooner Paul E. Thurlow Complete recordation including scantlings, plan view of hull outline, deck stanchions, and holds. Also recordation of stern including rudder, and bow, as well as photo documentation including 35mm and video.
  - KVK Vessel 38 Floating Drydock Complete recordation including major dimensions, scantlings, plan view of remaining hull, deck stanchions, bulkheads, framing, and remaining machinery. Since original deck planking is no longer in place and access can be gained to the inside of the vessel, at least one cross section including internal bracing will be taken. Photo documentation will include 35mm and video.
  - Shooters Island Vessel 2 Floating Drydock Complete recordation including scantlings, profile, plan view of deck, longitudinal cross sections along centerline and through at least one of the wings. At least one cross section will be obtained including both wings and the location of internal bracing and remaining machinery, pending safe access. Photo documentation will include 35mm and video.
  - Shooters Island Vessel SS16b Unidentified Type with Composite construction Complete recordation including scantlings, plan and at least one cross section and recordation of bow and stern including propulsion. Possible recovery of diagnostic artifacts including propeller and portion of framing with attached hull planking, pending feasibility. Photo documentation will include 35mm and video.
- Preparation of salvage and conservation plan regarding Vessel SS16b.

## **Schedule and Duration of Diving**

The project is tentatively scheduled for August 1<sup>st</sup> – September 30<sup>th</sup>, 2004. Not all aspects of the project involve diving, as many portions of the vessels are above water and can be accessed by boat or by land. For those vessels requiring diving, it will take place on each day that weather

and safe water levels permit safe diving. Diving will not commence until the Dive Safety Plan is approved by the USACE Dive Safety Officer, and until the Dive Safety Officer visits the dive station and approves the operation.

The depths recorded for the area range from zero to 20 feet Mean Sea Level. Dives and divers will be restricted to no-decompression limits. In calculating no-decompression limits the next greater time and next greater depth will be used on standard U.S. Navy diving tables.

#### Personnel

The dive team consists of five positions: a diving supervisor, a diver, a stand-by diver, one tender, and a time-keeper/communications operator. Each dive team member will meet the training and qualification requirements established in COE Safety and Health Requirements Manual (EM 385-1-1). Mr. Stephen James will serve as Project Manager. Mr. Andrew Lydecker will serve as the Diving Supervisor and Principal Investigator. Other members of the dive team are Michael Faught, underwater archaeologist; Michael Krivor, underwater archaeologist; Jim Duff, underwater archaeologist, and Matt Elliott, archaeological diver. All of these dive team members are certified for diving; are current in Red Cross training for First Aid and Cardiopulmonary Resuscitation (CPR); and have recently passed a physical examination conducted for the purpose of ascertaining fitness for diving. Prior to the start of diving operations all participants will receive a thorough briefing on the content and objectives of the Dive Safety Plan. Periodically during the conduct of diving operations, the dive team will review the Dive Safety Plan at briefings as deemed necessary by the Diving Supervisor.

Mr. Stephen R. James, Jr. acts as Project Manager for this project. Mr. James holds a degree in anthropology from Memphis State University and a master's degree in nautical archaeology from the Institute of Nautical Archaeology, Texas A&M University. SOPA (Society of Professional Archaeologists) certified since 1985, and with 20 years of experience in maritime archaeology, he has extensive project experience and has directed and conducted all phases of work on submerged sites including archival research, remote-sensing surveys, anomaly assessment, site testing, and full-scale shipwreck mitigation. Mr. James has an extensive diving background with various U.S. Army Corps of Engineer Districts: New York, Wilmington, Savannah, Vicksburg, Memphis, Mobile, New Orleans, and Galveston. He served as Project Manager for the investigation of the *Manuela* in San Juan Harbor in 2001.

Mr. Andrew Lydecker, who will act as Principal Investigator and Dive Supervisor for the investigation, holds an M.S. in Cartography and G.I.S. and an M.A. in Archaeology, both from the University of Wisconsin. He also holds a B.S. in Anthropology from Mankato State University. He has extensive archaeological and computer drafting experience. His previous archaeological experience was gained in the Great Lakes, Florida, Southern rivers, Caribbean, and South Pacific. Since joining Panamerican in 2000, he has directed and authored several projects for the Jacksonville District COE, including both diving and remote-sensing projects. He has been employed by Panamerican previously for New York, Wilmington, Jacksonville, Mobile, and Vicksburg District COE operations on various underwater diving projects. Recently he has acted as Principal Investigator and Diving Supervisor for a Phase II assessment of remote-

sensing targets and hulks in New York Harbor.

Dr. Michael K. Faught will serve as an Underwater Archaeologist. Dr. Faught obtained his PhD at the University of Arizona, Tucson, and has been principal investigator and project administrator for several terrestrial and underwater projects with Panamerican's Tampa office. He has expertise in submerged prehistoric site archaeology, geoarchaeology, chipped stone analysis, acoustic remote sensing, archaeology of North America. He has six years of cultural resource management experience in the desert southwest, and seven years of post doctoral research and teaching in Florida. Dr. Faught has extensive experience with acoustic remote sensing data (side scan and subbottom) and experience with magnetometry. He has raised more than \$800k in state grants and small contracts as principle investigator for Dog and St. George Island Shipwreck Survey and the PaleoAucilla Prehistory Project and several other projects. Authored and edited a large number of Cultural Resource Reports and Monographs and growing number of journal articles.

Mr. Michael Krivor, who will act as Maritime Archaeologist, holds an M.A. from the program in maritime history and archaeology from East Carolina University, and a B.A. in aquatic archaeology from Humboldt State University. Since joining Panamerican, Mr. Krivor has participated in numerous remote sensing surveys and anomaly investigations on projects on the Gulf Coast, East Coast, Pacific, the Caribbean, and many Southern river systems. He has directed numerous archaeological projects for various clients ranging from the Army Corps of Engineers Memphis, New York, and Vicksburg Districts, as well as various state, local, and private agencies. Prior to employment with Panamerican, he accumulated experience in the Caribbean and on the East Coast. Recently certified by the Register of Professional Archaeologists (ROPA 1999), Mr. Krivor is directing an investigation on the Lower White River of Arkansas for the Memphis District Corps of Engineers.

Mr. James Duff, who will act as Archaeological Diver for the investigation, joined Panamerican in August of 1991 and is A.B.T. in the master's program at Texas A&M University. He will act as Remote-sensing Specialist and Underwater Archaeologist. Prior to employment with Panamerican, he accumulated extensive professional experience working for the North Carolina State Underwater Archaeology Unit and participated in remote-sensing surveys and anomaly investigations on projects with various universities and consulting firms. Since joining Panamerican, Mr. Duff has successfully directed and completed a variety of underwater cultural resource projects. Among these, he co-authored a shipwreck compilation and historic background report recently completed as part of a remote-sensing survey for a submerged pipeline corridor from New Jersey to Staten Island, New York. That survey collected over 2,000 line miles of remote-sensing survey records, including magnetometer, side scan sonar, and subbottom profiler, which were analyzed and interpreted by Mr. Duff for potentially significant cultural resources. He has directed or participated in several remote-sensing surveys and diver investigations for the New York, Wilmington, Savannah, Mobile, and Vicksburg Districts. At present Mr. Duff is acting as an Archaeological Diver for the testing of six anomalies on the Yazoo River for the Vicksburg District Army Corps of Engineers. He also served as Underwater Archaeologist for the investigation of the Manuela in San Juan Harbor in 2001.

Mr. Matt Elliott, who will act as Archaeological Diver, holds a B.A. in Anthropology from the University of South Alabama, as well as a Commercial Diving Certificate from the International Commercial Diving Institute. Mr. Elliott has previous terrestrial and maritime archaeological experience in the South Pacific, southern rivers, and East Coast, and brings his extensive commercial diving experience to the team. Recently he participated as an archaeological diver on a Phase II assessment of remote-sensing targets and hulks in the Hudson River at Athens, New York for the New York District.

If any of the above cannot be on site an alternate nautical archaeologist from Panamerican's pool of qualified employees will stand in.

### **Dive Platform**

The dive platform utilized will be of a size and type appropriate for the area environment and specific diving operations. At present a particular vessel has not been contracted for this project. A vessel will be chartered locally and be operated by an experienced and U.S.C.G. licensed local captain. The vessel will conform to U.S. Coast Guard specifications according to class and requirements established in EM 385-1-1, and will have on board all required safety equipment. The vessel will be equipped with a safe and secure dive ladder at the stern to be used by divers, aided by their tender, when entering and leaving the water.

# **Diving Equipment**

For the purposes of this investigation Surface Supplied Air (SSA) will be the main diving system employed for the inherent safety and more efficient working operations provided by the direct diver to surface air line and communications. This is especially true when operating underwater dredges and jets. The dive helmets will be Superlite 17 A/B Helmets. The helmets are maintained according to manufacturer's specifications. No modifications will take place on air supply fixtures. The dive helmets and the dive hoses used are currently certified, and copies of these certifications will be provided to the New York District Corps' Agency Diving Coordinator (ADC) prior to the commencement of diving operations. All dive helmets will be fitted with radios to permit communication with the surface. It should be stated that in the event of a loss of radio communication, the dive will be terminated.

#### **Environmental Suits**

Environmental suits will be required during excavation of suspected contaminated sediments and recordation in areas where diver/sediment contact might occur. The watertight suits will be used in conjunction with the SSA helmets to effectively seal off the diver from potential contamination in the suspended sediments. Hot water suits and wet suits are unacceptable since they do not protect the hands and feet. Divers and equipment used in excavating contaminated sediments will be hosed off after each dive and at the end of the day to reduce possible contamination.

# **Diving Equipment Inspection**

Inspection of all equipment will be performed as necessary or as required by the specific manufacturer. The inspection program will entail five different inspections:

- Inspection and operational testing of equipment received from the factory or distributor
- Inspection of equipment as it is issued to workers
- · Inspection after use
- Periodic inspection of stored equipment
- Periodic inspection when a question arises concerning the appropriateness of the selected equipment, or when problems with similar equipment arise

The inspection checklist is provided below. Records will be kept of all inspection procedures. Individual identification numbers will be assigned to all reusable pieces of equipment, and records should be maintained by that number. At a minimum, each inspection should record the ID number, date, inspector, and any unusual conditions or findings. Periodic review of these records may indicate an item with excessive maintenance costs or a particularly high level of downtime.

# **Equipment Inspection Checklist**

#### Helmets

#### Before use:

• Yearly inspection by certified inspector of all hoses, helmets, regulators, valves, etc. (these have been appended to this Plan).

# During the work task:

- Daily inspection of helmets, including regulator (i.e., intake valves and exhaust ports), neck seal, one-way valve on air supply hose attachment, and free-flow operation. The helmets are checked for any leaks, malfunctions, and corrosion.
- Daily inspection of communication system. This involves a sound check at the surface when all gear is set up, and once again as soon as the diver is underwater.
   All wires at both the communication box and the helmet are checked for corrosion.

### Hoses

## Before use:

Yearly pressure inspection.

# During the work task:

- Daily, before connecting air hoses to helmets, they are blown free with air to make sure no debris or particulars are in the hose.
- Daily, all couplings are checked for leaks, corrosion, or malfunctions.
- Daily, all hoses are inspected for frays, cuts, corrosion, leaks, cracks, bulges, etc.
- Hoses, while in use, will be continually rinsed with a diluted bleach solution to keep contaminants to a minimum.

# Air Supply

# Before use:

Certificate of air quality will be provided.

# During the work task:

 K bottles will be properly secured in a well-ventilated area out of the direct sun or other heat source.

### Storage

Diving equipment will be stored properly to prevent damage or malfunction due to exposure to dust, moisture, sunlight, damaging chemicals, extreme temperatures, and impact. Storage procedures are as follows:

- All equipment will be stored in a well-ventilated area, with good airflow around each item, if possible.
- Dive suits, helmets, and hoses will be stored in a manner consistent with manufacturer's recommendations.

## Air Supply

Air for SSA diving will be provided by cascade system of no fewer than two 240-cubic-foot 'K' bottles. Pressure gauges and check valves are included in the air supply system as appropriate. Two levels of redundant backup air supply will be used, including an aluminum 80cf SCUBA

cylinder linked to the SSA cascade system, and a 50cf aluminum SCUBA cylinder worn by the diver and connected to the dive helmet. The cascade system will be stored in an environment protected from excessive heat and secure from falling. The timekeeper will monitor the air supply system during each dive to ensure that air pressure is correctly maintained and adequate reserve air is always available. A certificate of air quality will be obtained from the air supplier, and submitted to the New York District Dive Safety Officer for approval prior to commencement of diving activities.

The air supply hoses are Gates 33 H/B commercial dive hoses that have a working pressure at least equal to the working pressure of the air supply system and will have a rated bursting pressure at least four times greater than operating pressure or at least 80 PSI over bottom (ambient) pressure. The hoses are kink-resistant, marked in 10-foot increments from the diver, and will be equipped with corrosion-resistant fittings. When not in use hoses will be over-under coiled or figure-eight coiled to prevent twists and/or kinks. Hose ends will be capped or taped when not in use. The dive hoses will be inspected prior to each dive.

Divers using SSA will wear a safety harness with a quick-release attachment connected to the air umbilical. A safety line of at least 3/8 inch synthetic material is included as an integral part of the umbilical. The divers will wear clothing or wet suits, boots, gloves, and other protective gear appropriate to the conditions. Divers will wear weight belts equipped with quick-release buckles. All the equipment used during the diving operations will be inspected prior to each dive.

During all periods of diving, a suited stand-by diver will be fully prepared and equipped to dive SSA in the event of an emergency. There will be a separate individual timekeeper and communications operator during each dive. Voice communication between diver and surface will be maintained at all times. If voice communication is lost, the dive will be terminated.

# **Diving Operations**

The dive platform will be securely anchored or moored during all diving operations; no "liveboating" will be conducted during this project. The diving will be provided by surface supply air only. Each diver will have a full-time dive tender handling the diver air supply hose. The tender will help the diver don, remove and adjust equipment. The tender will check and ensure that the diver is properly rigged and adjusted immediately before the diver enters the water. The diver will not enter the water until clearance from the tender has been given. The diver and the communications operator will conduct a communications check prior to the diver's entering the water. The diver will check all equipment for proper function immediately upon submerging, while descending, and upon reaching the bottom before conducting any work. The tender will hold the diver's hose with the proper tension at all times during the dive. The hose should be held with enough tension to permit the tender and diver to transmit and receive "pull-signals" as needed, particularly in the event of a loss of radio communication. Should the diver's hose become fouled, all work will cease, the hose will be cleared, and the hazard causing the fouling will be evaluated before work is resumed.

The underwater examination of each site will begin with orientation dives to determine the

visible spatial extent, integrity, and present components of the site. Appropriate techniques and equipment such as metal and hydraulic probes will be employed to locate buried remains if none are apparent above the bottom. If necessary, portions of the site and its components will be uncovered through the use of hydraulic venturi-style dredges powered by small, low-pressure water pumps. It is emphasized that a minimum necessary amount of sediments will be disturbed in order to locate, examine, and evaluate the site. Archaeological divers will record sufficient information to assess NRHP eligibility. Relative to existing water and overburden conditions, video will be produced of the site.

#### **Environmental Considerations**

A number of consistent environmental conditions are expected to be encountered in the project area. Water temperatures are expected to be in the 60-80 degree range. The project will have equipment on hand to deal with a wide range of temperature conditions. Visibility is not expected to exceed 2 feet, with most diving occurring in zero-visibility water. All divers are trained in and have extensive experience diving in zero visibility environments. Currents are not expected to exceed 1 knot. In the event current exceeds 1 knot, diving will not take place. When possible, diving will be coordinated with periods of slack tide.

# Safety Considerations

All diving will be performed in accordance with the U.S. Army Corps of Engineers "Safety and Health Requirements Manual" EM385-1-1 dated September 1996; with the U.S. Navy Diving Manual, Volumes I and II; and with Panamerican's "Diving Safety Program for Submerged Cultural Resource Investigation" as appropriate.

Colds, upper sinus infections, respiratory infections, and ear infections that are contra-indicated for diving will preclude an individual from diving. All divers will inform the diving supervisor of the ingestion of any medication. All diving will be voluntary, and any dive team member may decline to dive at any time.

Safety and planning sessions will precede each day of diving. These sessions will include an assessment of safety aspects, potential hazards, tasks to be undertaken, emergency procedures, and any necessary modifications to operating procedures. Maximum depth and dive time will be determined before the completion of each dive. Approximate depth will be All dives will be logged throughout the dive, and written comments for the dive log will be required of the returning diver immediately upon completion of each dive. Upon completion of a dive and prior to the commencement of the next dive the returning diver will inform the dive supervisor about diving conditions observed and specifically about any hazards or potential hazards encountered. Divers will remain awake for at least one hour after a dive. Divers will wait at least 12 hours before flying after any dive; this will be extended to 24 hours following multiple days of diving.

An international diving flag (Alpha flag) and a civilian "diver-down" flag (red with white diagonal stripe) will be raised on the diving platform prior to, and lowered following completion of, all diving operations. All diving personnel will carry accurate timepieces and sharp knives.

Fire extinguishers will be aboard the dive platform and in each vehicle used. The dive team will have a diver first aid kit, oxygen, and floating backboard on hand during all diving operations. All personnel will be familiar with safety procedures and with the locations of safety equipment. Any accidents or injuries will be reported to the diving supervisor immediately, and a report of injury form will be completed.

Relative to Lock Out/Tag Out (LOTO) considerations, all project personnel will be familiarized with any potential sources of unexpected energy (i.e. boat motor) and/or any potential sources of kinetic or stored energy which could cause injury or damage. As stated in the Dive Safety Plan the dive platform will be anchored/moored (with at least two anchors) during all dive operations; therefore no "live-boating" will be conducted during this project. The dive platform's engine will not be started until all dive operations have ceased and each person is safely onboard the vessel. The boat captain and/or Principal Investigator will address any additional LOTO precautions prior to any dive operations. No differential water pressures (due to unequal water elevations) are anticipated during any phase of this project.

# Safety Procedures and Checklists

Safety will be the paramount concern during the project. All diving will be performed in accordance with the U.S. Army Corps of Engineers "Safety and Health Requirements Manual" EM385-1-1 dated September 1996; with the U.S. Navy Diving Manual; and with Panamerican's "Diving Safety Program for Submerged Cultural Resource Investigation" as appropriate. A copy of EM385-1-1 will be reviewed prior to the fieldwork phase of the project. Special attention will be paid to Chapter 19, "Floating Plant and Marine Activities," and Chapter 30, "Contract Diving Operations," and a copy will made available for inspection to all persons on the crew.

All Panamerican personnel scheduled to participate in this research have been qualified in First Aid and CPR by the Red Cross or comparable agency. Certificates to this effect are presented as part of the Dive Safety Plan package. Prior to initiating any field work, the Diving Supervisor will locate the nearest hospitals, hyperbaric chamber, notify the U.S. Coast Guard, and take care of any other logistical safety considerations. During the investigation there will be available communication with shore in the event of an accident. If applicable, the United States Coast Guard will be contacted prior to the commencement of activities so a "Notice to Mariners" broadcast of our diving activities can be arranged. They will also be contacted at the completion of diving activities.

The diving environment will be the main consideration. Tides, weather and vessel traffic will all be monitored.

## **Evacuation Routes and Emergency Facilities**

Evacuation routes from project areas to emergency medical facilities will be established and all project personnel will know these routes. There will be sufficient fuel kept in all vehicles for emergency use. There will always be a vehicle and/or boat available for emergency use during diving operations. In the event of an emergency the 911 emergency system is in operation in the project area. The ambulance service nearest to and/or which can most quickly reach the landing

nearest the dive site will be ascertained prior to diving operations. The emergency medical facility closest to, and/or most quickly reached from, the dive site and project docking area will be ascertained prior to diving operations. The nearest hyperbaric chamber is located at the Memorial Medical Center (1-800-225-7654). The United States Coast Guard (U.S.C.G.) in the area is under the direction of 1st District Operations, New York Group. The 1st District U.S.C.G. maintains a 24-hour Search and Rescue Hotline (212-668-7913). Search and Rescue helicopters capable of providing emergency evacuation operate out of the Coast Guard Air Station (718-765-2409). The Coast Guard will be notified of our working dates and location prior to initiation of fieldwork and will be updated periodically of our standing.

# **EMERGENCY SERVICES**

<b>EMERGENCY</b>	911	EMERGENCY
HOSPITAL	201-858-5000	Bayonne Hospital 29 <sup>th</sup> St. and Ave., E. Bayonne, NJ 07002
HOSPITAL	718-226-9000	Staten Island University Hospital 475 Seaview Ave., Staten Island, NY 10305
HOSPITAL	718-226-2000	Staten Island University Hospital 375 Seguine Ave., Staten Island, NY 10309
HYPERBARIC CHAMBER	1-800-255-7654 908-892-1100	Memorial Medical Center 24-Hour, Point Pleasant Hospital

**DIVERS ALERT NETWORK (D.A.N.)** 

DIVING EMERGENCY 919-684-8111 24-Hour Hotline

# UNITED STATES COAST GUARD, 1ST DISTRICT

GROUP NEW YORK	212-668-7913	
SEARCH AND RESCUE	212-668-7913/7937	24-HOUR HOTLINE
Operations Office	212-668-7913	USCG, 1st District, Governor's Island
Air Station	718-765-2409	USCG Air Station Brooklyn
Waterways Office	212-668-7906	Waterways, Governor's Island

# NEW JERSEY STATE MARINE POLICE, PORT NEWARK

State Marine Police 201-578-8173 Port Newark Office

# APPENDIX K: HEALTH, SAFETY, AND ACCIDENT PREVENTION PLAN

# HEALTH, SAFETY AND ACCIDENT PREVENTION PLAN

Recordation of Six (6) Vessels in Connection with the New York
And New Jersey Harbor Navigation Study Upper and
Lower Bay, Port of New York and New Jersey Staten Island, Richmond
County, New York, and Elizabeth, Union County and Bayonne,
Hudson County, New Jersey

Contract No. DACW51-01-D-0015 Delivery Order No. 0023

### 1.0 Introduction

## 1.1 Purpose

This document is the Health, Safety and Accident Prevention (HSAP) to be employed by Panamerican Consultants, Inc., (Panamerican) of Memphis, Tennessee during contract operations for the New York District, U.S. Army Corps of Engineers (COE), to record six vessels determined during a Phase II assessment of 39 targets in 2002 to be eligible for inclusion on the National Register of Historic Places. This investigation will be conducted under subcontract to Matrix Environmental and Geotechnical Services, of Florham Park, New Jersey, for the New York District in response to their Scope of Work entitled Recordation of Six (6) Vessels in Connection with the New York And New Jersey Harbor Navigation Study Upper and Lower Bay, Port of New York and New Jersey Staten Island, Richmond County, New York, and Elizabeth, Union County and Bayonne, Hudson County, New Jersey, under Contract No. DACW51-01-D-0015, Delivery Order No. 0023.

The following site-specific HSAP was prepared to provide safe procedures and practices for PCI personnel engaged in conducting cultural resources and archaeological investigations the six vessels. The plan has been developed using as guidance the Occupational Safety and Health Administration (OSHA)1910.120 regulations and the US Army Corps of Engineers Safety and Health Requirements Manual (EM 385-1-1; 3 Sept. 1996). The purpose of this HSAP is to establish personnel protection standards and mandatory safety practices and procedures for this task specific effort. This plan assigns responsibilities, establishes standard operating procedures, and provides for contingencies that may arise during the field archaeological and cultural resources efforts.

If for any reason the HSAP is altered in objective, personnel, or equipment, the New York District's Health and Safety Officer shall be contacted and shall review any revision prior to actual operation.

# 1.2 Applicability

The provisions of the plan are mandatory for all personnel engaged in archaeological and cultural resources investigations. All personnel who engage in these activities must be familiar with this plan and comply with its requirements; these personnel must sign-off on the Plan Acceptance Form (Appendix A), which will be retained by Panamerican Consultants, Inc. in the project file.

All personnel will be responsible for operating in accordance with the OSHA regulations 29 CFR Part 1910.120 - 'Hazardous Waste Operations and Emergency Response' and U.S. Army Corps of Engineers EM.385-1-1. It should be noted however, that although this plan was produced in accordance with these requirements this work is not being conducted in areas designated as hazardous waste or material areas.

Appendix A contains a statement of compliance form, a plan acceptance form, a site safety briefing form, and an accident/exposure form. This plan is applicable to all aspects of the tasks detailed below associated with an archaeological and cultural resources investigations to be performed in project areas.

The plan is based on available information concerning possible industrial contaminants and physical hazards that exist, or may exist, at the project site and during planned tasks. If more data concerning the nature and/or concentrations of contaminants become available, the plan will be modified accordingly. Modifications will be made by the Site Safety Officer. All modifications will be documented in the plan and field book and provided to the Project Manager and the Health and Safety Manager for approval.

A copy of this plan will be available for review by all on-site personnel. In addition, a copy of the plan will be provided to all subcontractors prior to their initial entry onto the site.

Before field activities begin, personnel will be required to read the HSAP. All personnel must agree to comply with the minimum requirements of the site-specific plan, be responsible for health and safety, and sign the Statement of Compliance for all on-site employees before site work begins.

#### 1.3 Field Activities

The tasks associated with the performance of the archaeological and cultural resources investigations include:

- Mobilization and Demobilization
- Documentary Research
- Recordation of Vessels
- Data Analysis

## 1.4 Personnel Requirements

Complete mapping, detailed drawing and photo documentation of the six wrecks will require three multi-person teams. One team of five people will conduct underwater mapping, and photography. As stipulated by the Regulation No. 385-1-93 of the <u>Safety Contract Diving Operations Requirements</u> (Corps 2004), in depths of 33 feet or less, five people are required when diving with SSA; a diver, a dive tender, a standby diver, a communications operator, and a diving supervisor. Because SSA will be employed for safety reasons, in concert with the fact that water depths will not exceed 20 feet, a five person dive team will be required for the project.

The remaining two teams will conduct above-water mapping and photography. One team of 2 people will complete all photography requirements. This will include digital, 35 mm, and video. The third team of 3 people will focus on mapping; including site plans, vessel features and detailed drawings. Surface documentation will require a longer time period and demand more detailed recordation procedures. Since above water and under water recording operations will not be carried on at the same time, the same personnel can be used in each of the three teams.

There will be one overall supervisor that will coordinate activities between all three teams. Each team will also have a field supervisor. The teams will rotate duties as deemed necessary to complete tasks as required.

Key personnel are as follows:

Project Manager- Mr. Stephen R. James, Jr. Principal Investigator - Mr. Andrew D. W. Lydecker Site Safety Officer - Mr. Andrew D. W. Lydecker PCI Safety Manager - Mr. Stephen R. James, Jr.

Site personnel and their duties are outlined below:

#### 1) Field Director

The Field Director and/or Principal Investigator will be responsible for all personnel and subcontractors on-site and designates duties to the on-site personnel. The Field Director has the primary responsibility for:

- Assuring that personnel are aware of the provisions of this plan and are instructed in the work practices necessary to ensure safety in planned procedures and for dealing with emergencies.
- Verifying that the provisions of this plan are implemented.
- Assuring that all field personnel have the required training.
- Assuring that appropriate personnel protective equipment (PPE), if necessary, is available for and properly utilized by all personnel.
- · Assuring that personnel are aware of the potential hazards associated with site

operations.

- Supervising the monitoring of safety performances by all personnel to ensure that required work practices are employed.
- Maintain sign-off forms and safety briefing forms.

# 2) Site Safety Officer

# The Site Safety Officer shall:

- Monitor hazards to determine the degree of hazard present.
- Determine changes to protection levels, clothing, and equipment needed to ensure the safety of personnel.
- Evaluate on-site conditions and recommend to the Field Director modifications to work plans and personnel protection levels needed to maintain personnel safety.
- Determine that appropriate safety equipment is available on-site and monitor its proper use.
- Verify and post the locations of medical facilities, emergency telephone numbers and routes
- Monitor field personnel and potential for exposure to physical hazards such as heat/cold stress, safety rules near heavy equipment and excavations.
- Halt site operations if unsafe conditions occur or if work is not being performed in compliance with this plan.
- Discuss changes to the plan with the Project Manager if field conditions warrant.
- Identify any special medical conditions or restrictions of personnel prior to field work.
- Monitor performance of all personnel to ensure that the required safety procedures are followed. If established safety rules and practices are violated, a report of the incident will be filed and sent to the Project Manager (Panamerican Consultants, Inc.) within 48 hours of the incident.
- Conduct daily safety meetings as necessary and complete the Site Safety Briefing Form prior to the initiation of field activities and as necessary (Appendix A).

# 3) Archaeological Field Personnel

It shall remain the responsibility of each field crew member to follow the safe work practices listed in this HSAP and in general to:

- Be aware of the procedures outlined in this plan.
- Take reasonable precautions to prevent injury to himself and to his coworkers.
- Perform only those tasks that he believes can be done safely, and immediately report any accidents or unsafe conditions to the Safety Officer and Field Director.
- Notify the SSO and Field Director of any special medical problems (i.e., allergies or medical restrictions) and make certain that on-site personnel are aware of any such problems.
- Think "safety first" prior to and while conducting field work.

The PCI crew can request assistance from the site safety officer or emergency personnel at any time during the course of field work. Each crew member has the authority to halt work should he deem conditions to be unsafe. Visitors will be required to report to the Field Director and Site Safety Officer and follow the requirements of this plan.

#### 2.0 COMPREHENSIVE WORK PLAN

This section comprises the organizational structure and work plan for the recordation of six vessels in Kill Van Kull and Arthur Kill. The six vessels differ to varying degrees in extant hull amounts, direction and ease of access, integrity of remaining hull, associated debris, internal sedimentation, and safety concerns. All of these factors will affect recordation and will dictate to some extent the tools employed, as well as the time required for recordation of the vessels.

Varying with the tide and location, perhaps one of the most important factors is water depth. Rapidly dropping tides, coupled with very shallow areas adjacent to some of the vessels will mandate an orchestration of the day's work, basically comprised of the continual shifting of the work vessels and work sites based on documentation requirements. Access availability of the six vessels is presented below

# 2.1 Project Phases

Located on Shooters Island and along the Kill Van Kull shoreline of Staten Island, five of the vessels lie within New York State, and one lies within New Jersey State. As presented the SOW, the Memorandum of Agreement (MOA) between the Corps and the New Jersey State Historic Preservation Officer and the New York State Historic Preservation Officer stipulate that the vessels to be recorded, and level of recordation, are as follows:

- 1. KVK Vessel 33. Menhaden Fishing Trawler. Accessible only by water and best at low tide, Vessel 33 will receive complete recordation. Architectural documentation will include the profile, the plan view of the deck, and the longitudinal cross section of the vessel, all of which can be obtained during low tide by non-diving personnel. Diving aspects of the recordation will include recordation of the stern, including rudder and propulsion, and the bow. Recordation of hull lines will also be undertaken, and will entail both diving and non-diving personnel. Photo documentation in the form of 35 mm and video will also be undertaken.
- 2. KVK Vessel 36. Wooden Hydraulic Dredge. Accessible only by water and best at low tide, Vessel 36 will receive partial recordation, including basic dimensions and structural elements. Photo documentation in the form of 35 mm and video will also be undertaken

- 3. KVK Vessel 37. Paul E. Thurlow. Four-Masted Schooner. Accessible only by water and best at low tide, Vessel 37 will receive complete recordation. Architectural documentation will include a plan view of the hull outline, deck stanchions, and holds. Recordation of hull lines will also be undertaken. Diving aspects of the recordation will include recordation of the stern, including rudder, and the bow. Photo documentation in the form of 35 mm and video will also be undertaken.
- 4. KVK Vessel 38. Floating Drydock. Accessible only by water and best at low tide, Vessel 38 will receive complete recordation. Architectural documentation will include major dimensions, a plan view of the remaining hull, deck stanchions, bulkheads, framing, and the location of any remaining machinery. Since most of the original deck planking is no longer in place, thus allowing access to the internal structure of the pontoon, at least one cross section including internal strengthening of the pontoon will be included. Photo documentation in the form of 35 mm and video will also be undertaken.
- 5. Shooters Island Vessel 2. Floating Drydock. Accessible only by water, Vessel 2 will receive complete recordation. Architectural documentation will include the profile, the plan view of the deck, and longitudinal cross sections of the vessel along both the centerline and through at least one of the wings. Also, at least one cross section will be obtained including both wings and the location of internal bracing, and remaining machinery, if safe access is possible. Most of the above documentation will be obtainable by non-diving personnel. Photo documentation in the form of 35 mm and video will also be undertaken.
- 6. Shooters Island Vessel SS16b: Unidentified Type; Composite Construction. Accessible only by water, Vessel SS16b will receive archival research and be fully recorded. Architectural documentation will include the profile, the plan view of the hull, and the longitudinal cross section of the vessel, as well as recordation of the stern, including rudder and propulsion, and the bow. Recordation of hull lines will also be undertaken. All aspects will involve diving personnel. Photo documentation in the form of 35 mm and video will also be undertaken.

#### 2.2 Vessel Access

The locations of the vessels to be recorded mandate the employment of several different types of work boats. For diving, a large crew-type dive vessel will be employed. Shallow draft vessels, will be employed for access to above water portions of the site. The draft of the small work boats will not exceed 2 feet, with the draft of one of the work boats being extremely shallow.

While tide and vessel drafts are important considerations, the most critical factors affecting the proposed documentation project are safety concerns. Certainly project personnel will have the experience and capability to work safely from boats. Because of the often slick and deteriorated timbers, personnel will exercise the utmost caution and

will wear protective clothing, including footwear with sufficient traction to minimize the possibility of injury. Surface personnel will also be faced at times with recording in and around various types and amounts of debris. Some of the debris likely can be moved by hand but project personnel will simply work around the majority of debris.

KVK V33

Main access location is adjacent the vessel's port midship area. This access location can be employed by either of the small project vessels, and can be employed on any tide. This location is, however, affected by the wakes of large tugs which transit at a high rate of speed. A small skiff can be taken into the internal perimeter of her hull on high tide. This will allow recordation of numerous aspects of the vessel by surface personnel. Access can be gained to the main deck of V33 via small boat. However, this will only be attempted if measurements cannot be obtained from the boat and only if the deck is stable enough to support weight.

KVK V36

This vessel is nearly totally submerged and is best accessed by divers. The best access time is at high tide as this area will become very shallow at low tide, perhaps to the point of stranding the dive platform. Surface personnel can access her at low tide using the shallowest draft skiff at this location.

KVK V37

The vessel's stern and midship area can be accessed from the port midship side by small boat only at any tide. The shallowest draft skiff with surface personnel should be able to access this area on a low tide. Diving personnel will be required to access the lower points of the hull, as well as the stern and bow. Surface personnel can record vessel aspects on any tide.

**KVK V38** 

This vessel is nearly totally submerged and is best accessed by divers. The best access time is at high tide as this area will become very shallow at low tide, perhaps to the point of stranding the dive platform. Surface personnel can access her at low tide using the shallowest draft skiff at this location.

Shooters Island V2

The dive platform can access the starboard side of this vessel at high tide. A small skiff with surface personnel can skirt the outer hull for recordation of many aspects, thus allowing recordation of numerous aspects of the vessel by surface personnel. Access can be gained to the main deck of V2 via small boat. However, this will only be attempted if measurements cannot be obtained from the boat and only if the deck is stable enough to support weight.

SS 16b

This vessel is totally submerged and is accessible only by divers. The best access time is at high tide although it is accessible at low tide as well.

# 2.3 Photography

Photodocumentation tools will play an integral role in the recordation process. Both 35 mm and digital cameras will be used for all shots. Video documentation will also be used, as it allows a much more comprehensive view, and will aid in the mapping and analysis. In addition, the video record can be archived, and it can be employed as a teaching or reference tool of our maritime history.

# 2.4 Mapping

Vessel documentation will include mapping various vessel aspects. Many of the required aspects are above water and can be mapped by surface personnel. A mapping device, such as an Electronic Distance Measure (EDM), will expedite surface operations, and will be much safer than using a tape measure. Documentation will include all extant elements, such as frames, ceiling planking, outer-hull planking, decking, knees, etc. Where possible archaeologists will record evidence of workmanship, repairs, modifications and fastening patterns.

# 2.5 Artifact Recovery

Apart from documentation, MOA stipulations address recovery of components of Vessel SS16b. Composite framing and propulsion are present and will require specialized salvage equipment, including underwater saws and/or torches to recover. This recordation project will assess the requirements and access for recovery but will not attempt recovery.

# 2.6 Required Equipment Types

Major Equip. Type	Specific Requirement
Dive Platform	A diving platform large enough to accommodate the entire diving team plus SSA equipment and peripherals such as compressors and/or excavation equipment (i.e., water pump), is required
Small Runabout	A small runabouts with a draft of no more than two feet will be on site to allow for personnel and equipment movement at the project site. It will also be employed as quick transport to shore in the case of an emergency.
Small Skiff	A small skiff with a draft of no more than 1 foot will be on site to allow surface recordation personnel access into the interior of the vessels at low tide, as well as access to the exterior of the vessels where submerged objects or shallow mud flats may occur.

SSA System A surface supplied air system (SSA) will be required for

many aspects of recordation and excavation. The employment of SSA is in direct response to safety concerns. Bailout bottles will be a part of the SSA divers equipment, and will be required in certain instances.

Environmental Suits Consisting of a watertight SSA helmet and suit, an

environmental suit will be required during recordation in

areas where diver/sediment contact might occur.

Ladders At least two, 8 to 10 foot ladders are required to access

various vessel areas. The ladders will be a necessity in

the recordation of V2.

EDM An Electronic Distance Measure will be employed by

surface personnel to accurately and expeditiously record

many aspects of the vessels, including plan views.

Total Station A laser transit total station will be employed to

accurately and expeditiously record many aspects of the

vessels, including hull lines.

Camera Equipment Both 35 mm and digital cameras will be used for most

shots. Black and white and digital still photography will be augmented by both above and underwater video

documentation.

#### 2.7 Schedule and Duration of Recordation

The project is tentatively scheduled for August 1<sup>st</sup> – September 30<sup>th</sup>, 2004. Not all aspects of the project involve diving, as many portions of the vessels are above water and can be accessed by boat or by land. Work will take place on each day that weather and safe water levels permit safe diving. Work will not commence until the Health and Safety Plan is approved by the USACE Health and Safety Officer.

## 3.0 HAZARD EVALUATION

Based on the nature of these archaeological activities, which include recordation of deteriorating structures, the hazard potential is deemed moderate. Activities will also be conducted in areas of historic industrial activity. The potential of encountering low levels of industrial contamination exists. The following summarizes the potential hazards associated with deteriorating structures as well as potential chemical, physical and biological hazards.

# 3.1 Activity Hazard Analysis

# 3.1.1 Vessel Activity

HAZARD _	MEANS OF PREVENTION	ACTION IN CASE
Weather	Monitor weather prior to leaving port. Constantly observe weather while conducting investigations. Indications of imminent foul weather are antithetical to safe investigations.	Do not have vessel leave port. Vessel return to port.
Fire aboard Vessel	All survey crew will become familiar with placement of fuel shutoff and fire suppression equipment.	Contact nearest Coast Guard facility. Engage fire suppression equipment.
Falling objects	All overhead objects will be secured.	Apply first aid or other appropriate treatment.
Falling, Tripping, and Slipping	Crew will be aware of the local environment and wear proper foot gear for environment. One hand for the boat one hand for self rule.	Apply first aid or other appropriate treatment. Seek medical help if necessary.
Man Overboard	Crew will wear Personal Flotation Device (PFD) when applicable.	Discontinue investigation. Recover man overboard.
Hypothermia	Crew will wear appropriate clothing for environmental conditions. Avoid exposure to extreme cold and unnecessary discomfort.	Supply with warm liquids and cover until body temperature returns to normal.
Drowning	Crew will wear Personal Flotation Device (PFD) when applicable. Crew will be familiar with the dive vessel and emergency equipment placement for immediate use if necessary.	Administer CPR as appropriate & seek medical attention immediately.
Vessel Sinking	Evaluate seaworthiness of vessel prior to any survey or work activity. Know location of all floatation devices and life rafts on project vessel. Know radio signal for emergencies "May Day".	Contact nearest Coast Guard facility. Abandon vessel.

# 3.2.2. Non-Diving Working Activity

ACTIVITY	POTENTIAL PROBLEMS	MEANS OF PREVENTION
Working on above water wrecks	Falling through deteriorated decking	Alternate means of obtaining desired data will be employed where possible.
	Falling through deteriorated decking	No unnecessary walking on deteriorated vessels.
	Shifting/falling objects	Wearing of proper safety equipment including hard hats and steel toed boots
	Undetected worker injury	Working in groups of two or more people.
	Falling off vessel into water	Wearing of proper safety equipment.
	Tripping	Observe tripping hazards and remove, avoid, or mark.
	Slipping, falling	Wearing of proper safety equipment.
		Careful observation of surroundings.
		No unnecessary walking on deteriorated vessels.
	Scrapes and cuts due to exposed sharp edges	Wearing of proper safety equipment
	Splinters	Wearing of proper safety equipment
	Exposure to waste chemicals, solvents, paints and other potentially hazardous items that may have been stored/left behind on vessels	Wearing of proper safety equipment. Avoiding deteriorated chemical storage cans/tanks.

# 3.2.3. General Hazard Analysis

<u>ACTIVITY</u>	POTENTIAL PROBLEMS	MEANS OF PREVENTION
Work Site	General public, pleasure and commercial vessels	Limit or Prevent Access as necessary Maintain communication via marine band radio.
Accident Prevention	Public and personal injury	Wear proper clothing and safety equipment.
		Signage and other applicable warning devices.
Emergencies, Injuries and Accident Reporting	Public and personal injury.	Maintain survey crew certification in both CPR and First Aid. Maintain first aid kits. Post local emergency numbers. Promptly report and investigate all accidents.
Machinery And Equipment Operation	Equipment or property damage .Potential for personnel injury.	All machinery and equipment will be operated only by knowledgeable operators
Vehicle Operation.	Equipment or property damage Potential for personnel injury.	All survey crew members will obey local traffic laws Project vehicles will be properly maintained.
Loading and Offloading Equipment	Equipment or property damage Potential for personnel injury.	Each crew member will know abilities and not exceed them. Assign proper number of personnel to each task.
Water Access And Equipment Operation	Drowning, falling, or slipping .	All floating plant marine work will be performed in accordance with the requirements of EM385-1-1 Section 26

The above is a list of potential hazards that may be encountered during the current project. This list will be presented to each survey crew member for their review and input prior to any survey activity.

While on site other, not readily definable hazards may occur. A continuous evaluation of hazards will be conducted while engaging in project activities. Each new hazard that presents itself will be listed as they occur and preventive measures will be developed and implemented. Upon the completion of the investigation a review of the effectiveness of the present hazard analysis will be conducted to evaluate the overall effectiveness and determine if any changes or additional input is needed. Any hazards encountered during the investigation not previously listed will be included in a post survey hazard evaluation for better pre-project hazard analysis during future projects.

#### 4.0 SAFE WORKING PRACTICES

#### 4.1 General Practices

The following general safe work practices apply:

- Contact with potentially contaminated substances should be avoided. Puddles, pools, mud, etc. should not be walked through if possible. Kneeling, leaning, or sitting on equipment or on the ground should be avoided whenever possible.
- Unusual site conditions shall be promptly conveyed to the SSO and project management for resolution.
- A first-aid kit shall be available at the site.
- Field personnel should use all their senses to alert themselves to potentially dangerous situations (i.e., presence of strong, irritating, or nauseating odors, deteriorated surfaces, unstable debris, etc.).
- Field personnel must attend safety briefings and should be familiar with the physical characteristics of the investigation, including:
  - Accessibility to associates, equipment, and vehicles.
  - Site access.
  - Routes and procedures to be used during emergencies.
- Personnel will perform all investigation activities with a buddy who is able to:
  - Provide his or her partner with assistance.
  - Notify the SSO or Field Director if emergency help is needed.
- Work activities shall be terminated immediately in event of thunder and/or electrical

The use of alcohol or drugs at the site is strictly prohibited.

#### 5.0 PERSONAL PROTECTIVE EQUIPMENT

As required by OSHA in 29 CFR 1920.132, this plan constitutes a workplace hazard assessment to select personal protective equipment (PPE) to perform the archaeological

and the cultural resources investigation.

Protective clothing and equipment to initiate the project will include:

- Work clothes
- Steel or fiberglass-toed safety boots
- Work gloves
- · Hard hat if work is conducted in areas with overhead danger

# 6.0 EMERGENCY INFORMATION

In the event of an emergency, the field team members or the SSO will employ emergency procedures. A copy of emergency information will be kept in the field vehicle and will be reviewed during the initial site briefing. Copies of emergency telephone numbers and directions to the nearest hospital will be prominently posted in the field vehicle.

# 6.1 Emergency Medical Treatment And First Aid

A first aid kit large enough to accommodate anticipated emergencies will be kept in the boat. If any injury should require advanced medical assistance, emergency personnel will be notified and the victim will be transported to the hospital. Keys for the field vehicle will be left in or near the ignition.

In the event of an injury or illness, work will cease until the SSO and Field Director have examined the cause of the incident and have taken appropriate corrective action. Any injury or illness, regardless of extent, is to be reported on the Accident Report Form (Appendix A).

# **6.2 Emergency Telephone Numbers**

Emergency telephone numbers for medical and chemical emergencies will be posted in the field vehicle are listed below:

EMERGENCY	911	EMERGENCY
HOSPITAL	201-858-5000	Bayonne Hospital 29 <sup>th</sup> St. and Ave., E. Bayonne, NJ 07002
HOSPITAL	718-226-9000	Staten Island University Hospital 475 Seaview Ave., Staten Island, NY 10305

718-226-2000

Staten Island University Hospital

375 Seguine Ave., Staten Island, NY 10309

# UNITED STATES COAST GUARD, 1ST DISTRICT

GROUP NEW YORK	212-668-7913	
SEARCH AND RESCUE	212-668-7913/7937	24-HOUR HOTLINE
Operations Office	212-668-7913	USCG, 1st District, Governor's Island
Air Station	718-765-2409	USCG Air Station Brooklyn
Waterways Office	212-668-7906	Waterways, Governor's Island

# NEW JERSEY STATE MARINE POLICE, PORT NEWARK

State Marine Police 201-578-8173 Port Newark Office

# **6.3 Emergency Standard Operating Procedures**

The following standard operating procedures are to be implemented by on-site personnel in the event of an emergency. The SSO shall manage response actions.

- Upon notification of injury to personnel, the designated <u>emergency signal shall be sounded</u>, if necessary. All personnel are to terminate their work activities and assemble with the SSO. The emergency medical service and hospital emergency room shall be notified of the situation. If the injury is minor, but requires medical attention, the SSO shall accompany the victim to the hospital and provide assistance in describing the circumstances of the accident to the attending physician.
- Upon notification of an equipment failure or accident, the SSO shall determine the effect of the failure or accident on site operations. If the failure or accident affects the safety of personnel or prevents completion of the scheduled operations, all personnel are to leave the area until the situation is evaluated and appropriate actions taken.
- Upon notification of a natural disaster, such as tornado, high winds, flood, thunderstorm or earthquake, on-site work activities are to be terminated by the SSO and all personnel are to evacuate the area.

## 6.4 Emergency Response Follow-Up Actions

Following activation of the Emergency Response Plan, the SSO shall notify the project manager and other PCI managers. The SSO shall submit a written report documenting the incident within two working days (see Attachments).

# 6.5 Medical Treatment For Site Accidents/Incidents

The SSO shall be informed of any site-related injury, exposure or medical condition resulting from work activities. All personnel are entitled to medical evaluation and treatment in the event of a site accident or incident.

## SITE MEDICAL SUPPLIES AND SERVICES

The SSO or a trained first aid crew member shall evaluate all injuries at the site and render emergency first-aid treatment as appropriate. If an injury is minor but requires professional medical evaluation, the SSO shall escort the employee to the appropriate emergency room. For major injuries occurring at the site, emergency services shall be requested.

#### First-Aid Kits

A first-aid kit shall be available, readily accessible and fully stocked. The first-aid kit shall be located within specified vehicles used for on-site operations.

#### 7.0 PERSONNEL TRAINING REQUIREMENTS

## 7.1 Initial Site Entry Briefing

Prior to initial site entry, the SSO shall provide all personnel (including site visitors) with site-specific health and safety training. A record of this training shall be maintained. This training shall consist of the following:

- Discussion of the elements contained within this plan
- Discussion of responsibilities and duties of key site personnel
- Discussion of physical, biological and chemical hazards present at the site
- · Discussion of work assignments and responsibilities
- Discussion of the correct use and limitations of the required PPE
- Discussion of the emergency procedures to be followed at the site
- Safe work practices to minimize risk
- Communication procedures and equipment
- · Emergency notification and procedures

# 7.2 Additional Training

The following additional training is required for all full-time site workers.

- Red Cross Standard First Aid
- Red Cross CPR

#### 7.3 Daily Safety Briefings

The SSO will determine if a daily safety briefing with all site personnel is needed. The SSO shall document the daily briefings in the field log book. This documentation shall include health and safety topics covered and attendees at the briefing. The briefing shall discuss the specific tasks scheduled for that day and the following topics:

- Specific work plans
- Physical, chemical or biological hazards anticipated
- Fire or explosion hazards
- PPE required
- Emergency procedures, including emergency escape routes, emergency medical treatment, and medical evacuation from the site
- Weather forecast for the day
- Buddy system
- Communication requirements
- Site control requirements

#### APPENDIX L: STATE SITE FORMS



(518) 237-8643

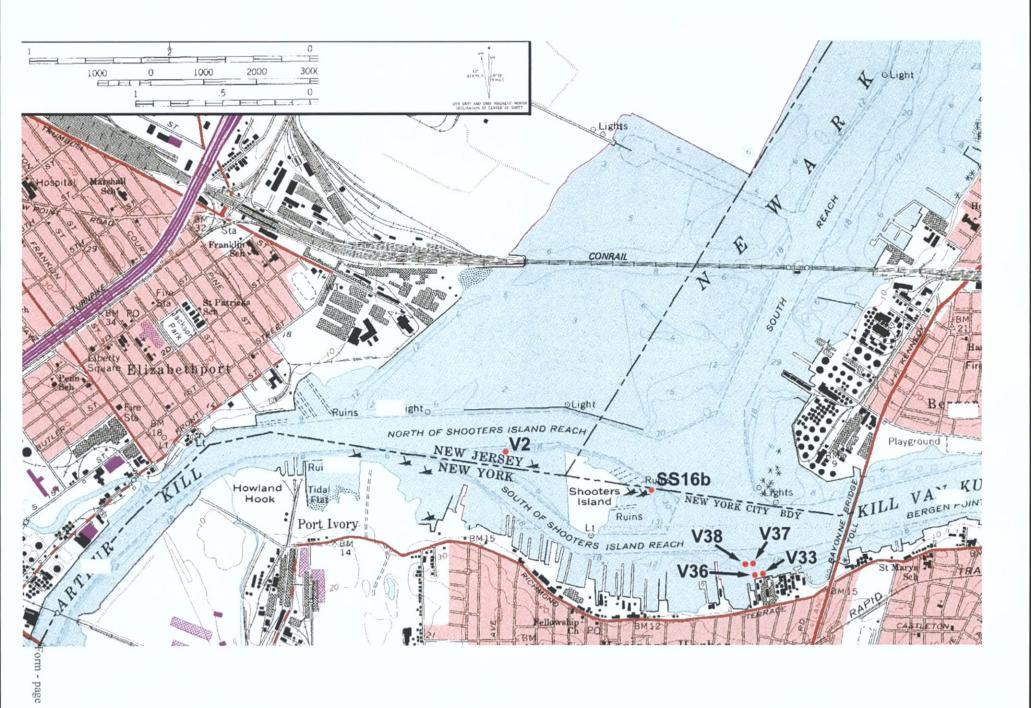
For Office Use Only--Site Identifier

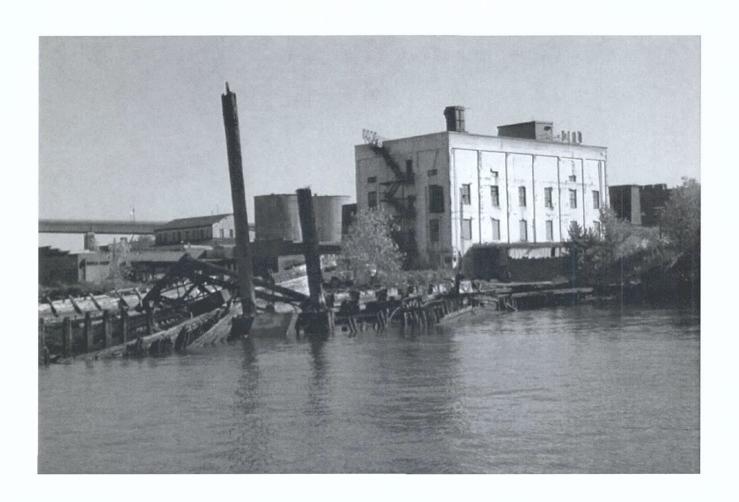
Investigator A. Lydecker

Project IdentifierRecordation of Six (6) Vessels in Connection with the New York Study Upper and Lower Bay Port of New York and New Jersey Staten Island, Rich Union County and Bayonne, Hudson County, New Jersey		
Your Name Andrew Lydecker	Date	3/4/2008
Address 91 Tillman St, Memphis, TN 38111	Phone (	(901)454-4733
Organization (if any) Panamerican Consultants, Inc., U.S. Army Corps	of Engine	eers - New York District
1. SITE IDENTIFIER(S) KVK V36, suction dredge,		
2. COUNTY Richmond One of the following:	CITY	Staten Island
TOWNSHIP INCORPORATED VILLAGE UNINCORPORATED VILLAGE OR HAMLET		
3. PRESENT OWNER State of New York Address		
4. SITE DESCRIPTION (check all appropriate categories): Structure/site  Superstructure: complete partial_ collapsed not evi Foundation: above _X below _X_ (ground level)  _X_ Structural subdivisions apparentOnly surface traces Buried traces detected List construction materials (be as specific as possible): Oak and yellow pine with bronze and iron fasteners	not evide	ent
Grounds Under cultivationSustaining erosionWooNever cultivatedPreviously cultivatedFloo Soil Drainage: excellent good fair Distance to nearest water from structure (approx.)0 Elevation:sea_level	odplain	Upland Pastureland poor <u>X</u>
5. Site Investigation (append additional sheets, if necessary):  Surface date (s) 8/1/2004 - 9/15/2004 Site map (subm Collection  Subsurface date(s)		
Testing: shovel coring other no. units (Submit plan of units with form*)	unit size	•
Excavation: unit size no. of units  (Submit plan of units with form*)  * Submission should be 8 ½" by 11", if feasible		

Lydecker, Andrew D. W. 2008, Recordation of Six (6) Vessels in Connection with the New York and New Jersey Harbor Navigation Study Upper and Lower Bay Port of New York and New Jersey Staten Island, Richmond County, New York, Elizabeth, Union County and Bayonne, Hudson County, New Jersey. Prepared by Panamerican Consultants, Inc, Prepared for U.S. Army Corps of Engineers, New York District.

Presen 6.	t repository of materials  Site inventory: suction dedge  a. Date constructed or occupation period <u>ca 1900</u> b. Previous owners, if known <u>U.S. Army Corps of Engineers.</u> c. Modifications, if known <u>Cabin and superstructure, upper deck, masts and rigging removed.</u> (append additional sheets, if necessary)
7.	Site documentation (append additional sheets, if necessary):  a. Historic map references  1) Name Date Source Present location of original, if known  2) Name Date Source Present location of original, if known  b. Representation in existing photography  1) Photo date 1940 Where located Aerographic Corporation  2) Photo date 1951 Where located Aerographic Corporation  3) Photo date 1960 Where located Aerographic Corporation
	4) Photo date 1974
8. object	List of material remains other than those used in construction (be as specific as possible in identifying and material):  If prehistoric materials are evident, check here and fill out prehistoric site form.
9. identifi	Map References: Map or maps showing exact location and extent of site must accompany this form and be ed by source and date. Keep this submission to 8½" x 11", if possible.  USGS 71/2 Minute Series Quad. NameElizabeth NJ/NY
10.	For Office Use OnlyUTM Coordinates 571949E, 4498809N WGS 84 Zone 18N meters  Photography (optional for environmental impact survey): Please submit a 5"x7" black and white print(s)







Phone:

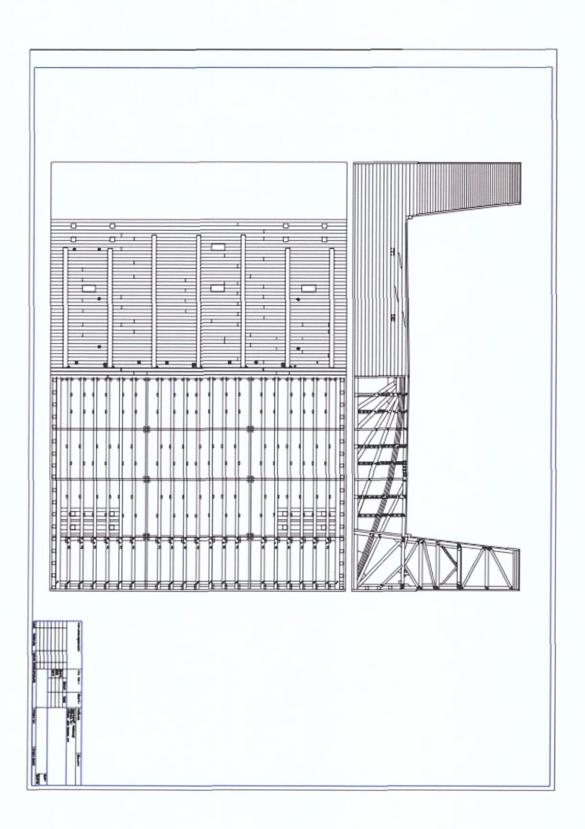
Collection stored: Date recorder at site:

#### NEW JERSEY STATE MUSEUM ARCHAEOLOGICAL SITE REGISTRATION PROGRAM BUREAU OF ARCHAEOLOGY & ETHNOLOGY PO BOX 530, TRENTON, N.J. 08625-0530 Ph.(609) 292-8594; Fx.(609) 292-7636

SITE NAME: <del>KVK</del>	(SS16b SHOOTS	ERS IS. VZ	SITE NO.: 28- UN - 44
NJ State Atlas Coord	dinates:		
USGS 7.5 Minute Se	eries Quad. Name	_Elizabeth, NY/NJ	
UTM Coordinates (r	required)571361	E, 4499299 N WGS 84 Zon	e 18 N meters
County: Elizabeth	UNION Mui	nicipality: Elizabeth	
Location (descriptive	e):East end of Shoo	ters Island	Period of Site: early 20th century
Type of Site: (histor	ic/prehistoric) histo	ric vessel	
Cultural affiliation(s	s) (if known):		
Owner's Name: Stat Address: Phone: Attitude toward Tenant's Name: Address: Phone:	e of New Jersey	tive	
Surface Features: no	one Pro	minent Landmarks: Shooters	Island
Vegetation Cover: ne	one		
Nearest Water Source	ce: Kill van Kull		Distance: 0
Soil Type:	Ero	sion:	
Stratified (if known)	):		
Threat of Destruction	n (if known): mode	rate	
PREVIOUS WORK	(list below):		
By Whom	Date	Collection Stored	Previous Designation
Recorders Name: Address:			

Sketch Map of the Site:

Indicate the chief topological features, such as streams, swamps, shorelines, and elevations (approx). Also show buildings and roads. Indicate the site location by enclosing the site area with a dotted line. Use a scale (approx) to indicate distance and dimensions.



Observations, Remarks, or Recommendations

References: <u>Unpublished</u> <u>Approx Date</u> <u>Published</u> <u>Date</u>
Lydecker, Andrew D. W. 2008, Recordation of Six (6) Vessels in Connection with the New York and New Jersey
Harbor Navigation Study Upper and Lower Bay Port of New York and New Jersey Staten Island, Richmond
County, New York, Elizabeth, Union County and Bayonne, Hudson County, New Jersey. Prepared by Panamerican
Consultants, Inc, Prepared for U.S. Army Corps of Engineers, New York District.

Revised 2003



(518) 237-8643

Study U		Bay Port of Ne	w York and New	Jersey Staten Isla			v Jersey Harbor Navigation ounty, New York, Elizabeth,
Your N	ame_ Andrew Lyo	lecker			D	Date	3/4/2008
Address	s 91 Tillman St,	Memphis, TN 38	3111		P	hone	(901)454-4733
Organiz	zation (if any) _	Panamer	rican Consultants	, Inc., U.S. Army	Corps of	Engi	neers - New York District
1. SITE	IDENTIFIER(S)_	KVK V38, bala	anced floating dry	dock,			
2. COU	NTY_Richmond			One of the follow	wing: C	CITY_	Staten Island
_		UNIN		TOWN DRPORATED VILL VILLAGE OR HAM	AGE		
3. PRES	SENT OWNER ess	State of N	New York				
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	Never Soil Draw Distance	er cultivated ainage: excell	Previously	y cultivated good re (approx.)0	Floodp	plain	Pastureland
5.	Site Investigation Surface date ( Collection Subsurface date ( Testing:	s) <u>8/1/2004</u> - on ate(s) shovel	9/15/2004 coring	Site ma		with for	,
			no. of units of units with formule 8 ½" by 11", i				
	Investigator	A. Lydecke	r				

Manuscript or published report (s) (reference fully): Lydecker, Andrew D. W. 2008, Recordation of Six (6) Vessels in Connection with the New York and New Jersey Harbor Navigation Study Upper and Lower Bay Port of New York and New Jersey Staten Island, Richmond County, New York, Elizabeth, Union County and Bayonne, Hudson County, New Jersey. Prepared by Panamerican Consultants, Inc. Prepared for U.S. Army Corps of Engineers, New York District. Present repository of materials Site inventory: remains of balanced floating drydock a. Date constructed or occupation period ca 1920 b. Previous owners, if known unknown. c. Modifications, if known Cabin and superstructure, upper deck, masts and rigging removed. (append additional sheets, if necessary) 7. Site documentation (append additional sheets, if necessary): a. Historic map references 1) Name Date Source Present location of original, if known 2) Name \_\_\_\_\_ Date \_\_\_\_\_ Source Present location of original, if known b. Representation in existing photography 1) Photo date 1974 Where located Aerographic Corporation
2) Photo date 1984 Where located Aerographic Corporation c. Primary and secondary source of documentation (reference fully) d. Persons with memory of site 1) Name Address 2) Name Address List of material remains other than those used in construction (be as specific as possible in identifying 8. object and material): If prehistoric materials are evident, check here and fill out prehistoric site form. Map References: Map or maps showing exact location and extent of site must accompany this form and be identified by source and date. Keep this submission to 8½" x 11", if possible.

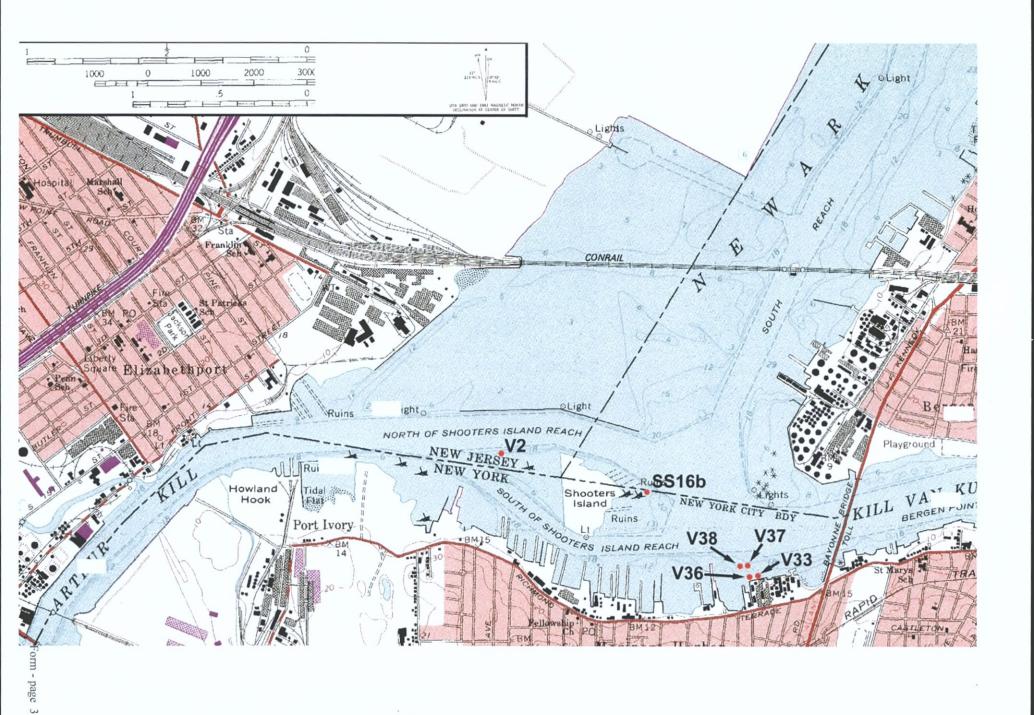
Photography (optional for environmental impact survey): Please submit a 5"x7" black and white print(s)

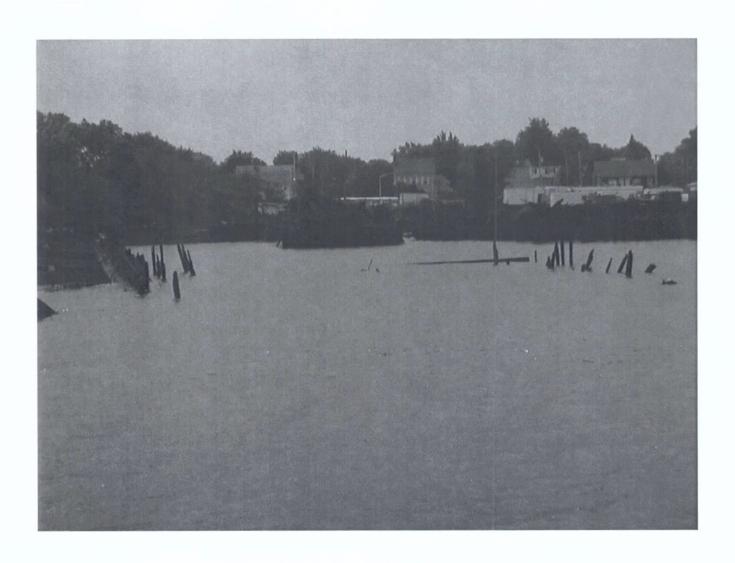
USGS 71/2 Minute Series Quad. Name Elizabeth NJ/NY

showing the current state of the site. Provide a label for the print(s) on a separate sheet.

For Office Use Only--UTM Coordinates 571889E, 4498883N WGS 84 Zone 18N meters

10.





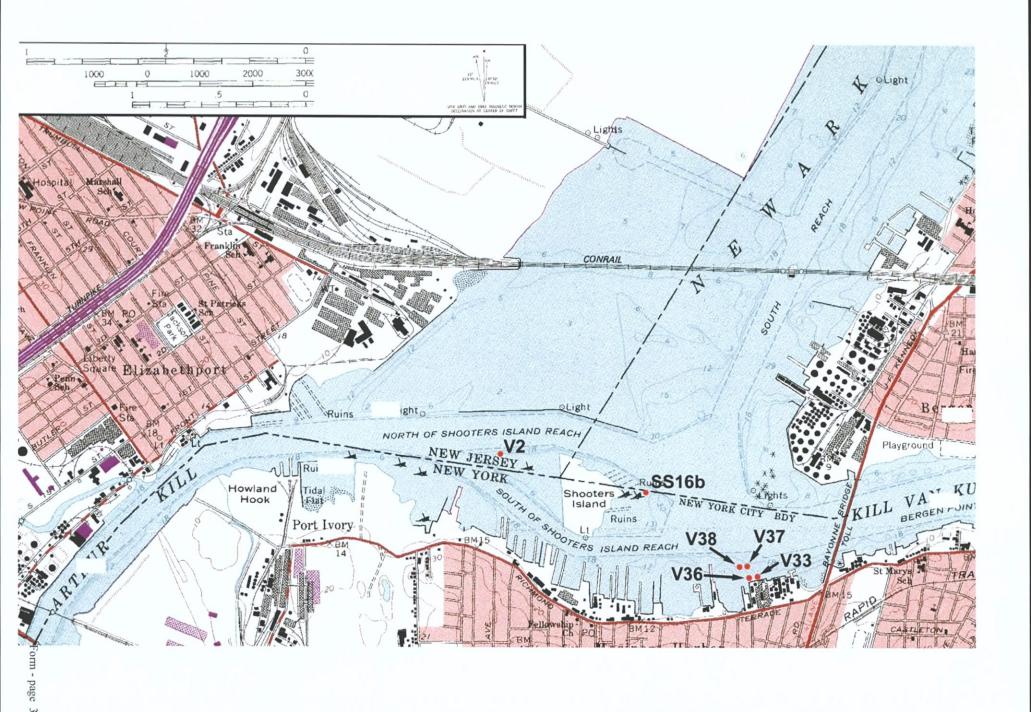


(518) 237-8643

Project IdentifierRecordation of Six (6) Vessels in Connection with the New York Study Upper and Lower Bay Port of New York and New Jersey Staten Island, Rich Union County and Bayonne, Hudson County, New Jersey		
Your Name_ Andrew Lydecker	Date	3/4/2008
Address 91 Tillman St, Memphis, TN 38111	Phone	(901)454-4733
Organization (if any) Panamerican Consultants, Inc., U.S. Army Corps	of Engine	eers - New York District
1. SITE IDENTIFIER(S) KVK V37, Paul E. Thurlow,		
2. COUNTY Richmond One of the following:	CITY	Staten Island
TOWNSHIP INCORPORATED VILLAGE UNINCORPORATED VILLAGE OR HAMLET		
3. PRESENT OWNER State of New York Address		
4. SITE DESCRIPTION (check all appropriate categories): Structure/site  Superstructure: complete partial_ collapsed not evidence foundation: above below _X_ (ground level)  X_ Structural subdivisions apparent Only surface traces Buried traces detected  List construction materials (be as specific as possible):  Oak and yellow pine with bronze and iron fasteners  Grounds  Under cultivation Sustaining erosion Woo Never cultivated Previously cultivated Flood Soil Drainage: excellent good fair	not evide visible	Upland Pastureland
Distance to nearest water from structure (approx.) <u>0</u> Elevation: <u>sea level</u>		
Site Investigation (append additional sheets, if necessary):  Surface date (s) 8/1/2004 - 9/15/2004 Site map (subm Collection  Subsurface date(s)  Testing: shovel coring other no. units (Submit plan of units with form*)	uit with for	rm*)
Excavation: unit size no. of units  (Submit plan of units with form*)  * Submission should be 8 ½" by 11", if feasible  Investigator A. Lydecker		

Lydecker, Andrew D. W. 2008, Recordation of Six (6) Vessels in Connection with the New York and New Jersey Harbor Navigation Study Upper and Lower Bay Port of New York and New Jersey Staten Island, Richmond County, New York, Elizabeth, Union County and Bayonne, Hudson County, New Jersey. Prepared by Panamerican Consultants, Inc, Prepared for U.S. Army Corps of Engineers, New York District.

Present 6.	repository of materials Site inventory: four-masted schooner <i>Paul E. Thurlow</i> a. Date constructed or occupation period1919 b. Previous owners, if knownCrowell and Thurlow, William M. Martino.
	c. Modifications, if known <u>Cabin and superstructure, upper deck, masts and rigging removed.</u>
	(append additional sheets, if necessary)
7.	Site documentation (append additional sheets, if necessary): a. Historic map references
	1) NameDate Source
	Present location of original, if known
	2) NameDateSource
	Present location of original, if known
	<ul> <li>b. Representation in existing photography</li> <li>1) Photo date <u>1951</u> Where located <u>Aerographic Corporation</u></li> </ul>
	2) Photo date 1960 Where located Aerographic Corporation
-	3) Photo date 1974 Where located Aerographic Corporation
	4) Photo date <u>1984</u> Where located <u>Aerographic Corporation</u>
	5) Photo date1994 Where locatedAerographic Corporation
	c. Primary and secondary source of documentation (reference fully)
	d. Persons with memory of site
	1) Name Address
	2) Name Address
8.	List of material remains other than those used in construction (be as specific as possible in identifying
	and material):
3	
	Y6
	If prehistoric materials are evident, check here and fill out prehistoric site form.
9. identifi	Map References: Map or maps showing exact location and extent of site must accompany this form and be ed by source and date. Keep this submission to $8\frac{1}{2}$ " x 11", if possible.
	USGS 71/2 Minute Series Quad. Name Elizabeth NJ/NY For Office Use OnlyUTM Coordinates 571919E, 4498896N WGS 84 Zone 18N meters
10.	Photography (optional for environmental impact survey): Please submit a 5"x7" black and white print(s)





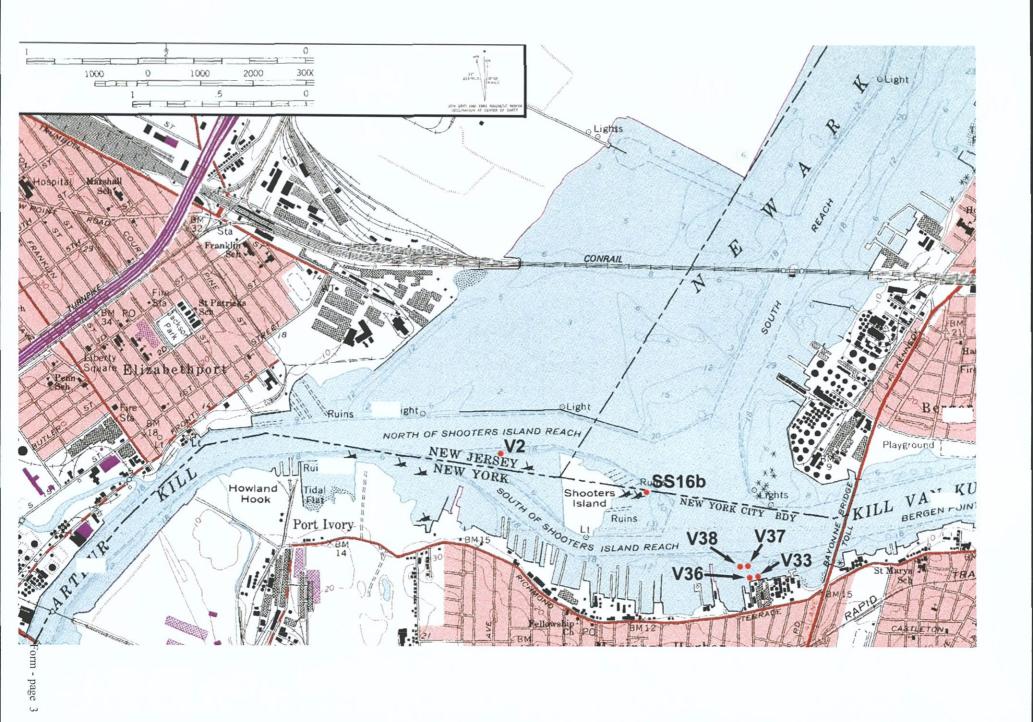


(518) 237-8643

Your Na	ame Andrew Lydeo	cker			D	ate	3/4/2008
Address	91 Tillman St, Me	emphis, TN 381	111		Pl	hone	(901)454-4733
Organiz	ation (if any)	Panameri	can Consultan	ts, Inc., U.S. Army	Corps of	Engi	neers – New York District
1. SITE	IDENTIFIER(S) <u>K</u>	VK V33, Fish	Hawk,				
2. COU	NTY Richmond			One of the follow	wing: C	ITY_	Staten Island
-		UNINC		TOWN CORPORATED VILL VILLAGE OR HAM	AGE		
3. PRES Addre	SENT OWNERss	State of No	ew York				
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	Excavation: ur (S	nit size Submit plan of sion should be		rm*)	<i>,</i>		

Lydecker, Andrew D. W. 2008, Recordation of Six (6) Vessels in Connection with the New York and New Jersey Harbor Navigation Study Upper and Lower Bay Port of New York and New Jersey Staten Island, Richmond County, New York, Elizabeth, Union County and Bayonne, Hudson County, New Jersey. Prepared by Panamerican Consultants, Inc, Prepared for U.S. Army Corps of Engineers, New York District.

Present	repository of materials						
6.	Site inventory: Menhaden trawler Fish Hawk						
	a. Date constructed or occupation period 1949						
	b. Previous owners, if known Atlantic Navigation Company J. Howard Smith Company, Fish Hawk, Inc.						
	c. Modifications, if known Cabin and superstructure, mast and rigging removed.						
	- C. Modifications, if the wife - calcil and supplies actually made and supplies - calcil and supplies - calci						
	(append additional sheets, if necessary)						
7.	Site documentation (append additional sheets, if necessary):						
	a. Historic map references						
	1) NameDate Source						
	Present location of original, if known						
	2) Name Date Source						
	Present location of original, if known						
	b. Representation in existing photography						
	1) Photo date 1984 Where located Aerographic Corporation						
	2) Photo date 1994 Where located Aerographic Corporation						
	c. Primary and secondary source of documentation (reference fully)						
	d. Persons with memory of site						
	1) Name Address						
	2) Name Address						
	2) Name 11881888						
8. object a	List of material remains other than those used in construction (be as specific as possible in identifying and material):						
	If prehistoric materials are evident, check here and fill out prehistoric site form.						
	in premistorie materials are evident, eneek nere and init out premistorie site forms						
9. identifi	Map References: Map or maps showing exact location and extent of site must accompany this form and be led by source and date. Keep this submission to $8\frac{1}{2}$ " x 11", if possible.						
	USGS 71/2 Minute Series Quad. NameElizabeth NJ/NY						
	For Office Use OnlyUTM Coordinates						
	571966E, 4498819N WGS 84 Zone 18N meters						
10.	Photography (optional for environmental impact survey): Please submit a 5"x7" black and white print(s)						







(518) 237-8643

Study U	Jpper and Lowe		w York and Nev	v Jersey Staten Island, R		w Jersey Harbor Navigation County, New York, Elizabeth,
Your Na	ame Andrew L	ydecker			Date	3/4/2008
Address	91 Tillman St	Memphis, TN 38	3111		Phone	(901)454-4733
Organiz	ation (if any)	Panamer	ican Consultant	s, Inc., U.S. Army Corp	os of Eng	ineers - New York District
1. SITE	IDENTIFIER(S)	SS16b, compos	site hulled vessel			
2. COU	NTY <u>Richmor</u>	d		One of the following:	CITY_	Staten Island
_		UNIN		TOWNSHIP ORPORATED VILLAGE VILLAGE OR HAMLET		
3. PRES Addre		State of N	New York			
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	Soil D Distan	rainage: excell	ent	g erosionW y cultivatedF good fair _ ure (approx.)0	loodplain	Upland Pastureland poorX
5.	Surface date Collec Subsurface o Testing:	shovel no. units	oring (Submit p	Site map (sub	unit siz	,
		unit size (Submit plan c nission should b	of units with for			
	Investigator_	A. Lydecker				

Lydecker, Andrew D. W. 2008, Recordation of Six (6) Vessels in Connection with the New York and New Jersey Harbor Navigation Study Upper and Lower Bay Port of New York and New Jersey Staten Island, Richmond County, New York, Elizabeth, Union County and Bayonne, Hudson County, New Jersey. Prepared by Panamerican Consultants, Inc, Prepared for U.S. Army Corps of Engineers, New York District.

Present	repository (	of materials						
6.			ction of section	nal floating drydock				
0.	a. Date constructed or occupation period <u>ca 1900</u>							
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7.				sheets, if necessary):				
		map reference		_				
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					Aerographic Corporation			
					Aerographic Corporation			
			12/1/20/20/20/20/20/20/20/20/20/20/20/20/20/	Where located				
	4)	Photo date _	1909	Where located	Library of Congress			
	d. Persons	with memory			e luny)			
	2)	Name		Address				
8. object a	List of material		other than thos	se used in construction	(be as specific as possible in identifying			
	If prehistor	ric materials a	re evident, che	eck here and fill out pre	ehistoric site form.			
9. identifi				g exact location and exsion to 8½" x 11", if p	extent of site must accompany this form and be possible.			
	For Office	Use OnlyU	es Quad. Nam TM Coordinat GS 84 Zone 18					
10.	Photography (optional for environmental impact survey): Please submit a 5"x7" black and white print(s)							

