

BID NUMBER PA-01806

TO: CITY OF LONG BEACH
CITY MANAGER
ATTN: CITY CLERK
333 West Ocean Boulevard, Plaza Level
Long Beach, California 90802



INVITATION TO BID
Skimmer Boat

CONTRACT NO. 29695

1. COMPLETE CONTRACT:

This Invitation to Bid, together with THE NOTICE INVITING BIDS, the entire Bid (including Specifications), or any items(s) thereof, the signature page, Instructions to Bidders, General Conditions, Special Conditions, Bid Section, Addendums, and when required, CONTRACTOR'S BOND shall become the Contract upon its acceptance by the City Manager or designee on behalf of the City of Long Beach, Contractor will be provided with a copy of the executed Contract. All materials or services provided by the Contractor shall comply with the City Charter, and all applicable Federal, State and City Laws.

2. SERVICES TO BE PROVIDED BY THE CONTRACTOR:

Contractor shall upon acceptance of this bid by the City, furnish the goods and services herein specified according to the terms and conditions set forth herein.

3. AMOUNT TO BE PAID:

The City shall pay Contractor for the goods or services as described in the section entitled "PAYMENT" in the Instructions to Bidders.

4. CHOICE OF ALTERNATE PROVISIONS; OPTIONS; NOTIFICATION:

When alternative provisions are requested, or options are offered, Contractor will be notified as to which provision, or option, is being accepted at the same time that he is notified that he is the successful Bidder.

5. DECLARATION OF NON-COLLUSION:

The undersigned certifies or declares under penalty of perjury that this bid is genuine and not sham or collusive, or made in the interest or on behalf of any person or entity not herein named; that the Bidder has not directly or indirectly induced or solicited any other Bidder to submit a sham bid, or any other person or entity to refrain from bidding, and that the Bidder has not in any manner sought by collusion to secure to himself any advantage over other Bidders.

BIDDER MUST COMPLETE AND SIGN BELOW:

(Signature of Corporate Officers or persons authorized to sign bids and contracts on behalf of the Contractor – refer to page 2 Instructions Concerning Signatures.)

EXECUTED AT: Weedspport, New York ON THE 2nd DAY OF June, 2006
CITY STATE MONTH

COMPANY NAME: Alpha Boats Unlimited, div. of Barber TIN: [REDACTED]
Welding Inc. (FEDERAL TAX IDENTIFICATION NUMBER)

STREET ADDRESS: 2517 State Route 31W CITY: Weedspport STATE: NY ZIP: 13166

PHONE: 315-834-6648 FAX: 315-834-6045

S/ [Signature] Secretary/Treasurer
(SIGNATURE) (TITLE)

Stephen L. Walczyk
(PRINT NAME) (EMAIL ADDRESS)

S/ _____
(SIGNATURE) (TITLE)

(PRINT NAME) (EMAIL ADDRESS)

ALL SIGNATURES MUST BE NOTARIZED FOR ALL COMPANIES LOCATED OUTSIDE THE STATE OF CALIFORNIA.
NO OUT-OF-STATE BID WILL BE CONSIDERED UNLESS A NOTARIAL ACKNOWLEDGMENT IS ATTACHED.
NOTARIES ARE NOT REQUIRED FOR CALIFORNIA BIDDERS.

IN WITNESS WHEREOF the City of Long Beach has caused this contract to be executed as required by law as of the date stated below.

THE CITY OF LONG BEACH
BY [Signature] 8-9-04
Director of Financial Management Date

APPROVED AS TO FORM 8/8, 2006.
ROBERT E. SHANNON
CITY ATTORNEY
[Signature]
Senior Deputy

BID NUMBER PA-01806

TO: CITY OF LONG BEACH
CITY MANAGER
ATTN: CITY CLERK
333 West Ocean Boulevard, Plaza Level
Long Beach, California 90802



INVITATION TO BID
Skimmer Boat

CONTRACT NO. _____

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(Signature of Corporate Officers or persons authorized to sign bids and contracts on behalf of the Contractor – refer to page 2 Instructions Concerning Signatures.)

EXECUTED AT: Weedspport, New York ON THE 2nd DAY OF June, 2006
CITY STATE MONTH

COMPANY NAME: Alpha Boats Unlimited, div. of Barber Welding Inc. TIN: [REDACTED]
(FEDERAL TAX IDENTIFICATION NUMBER)

STREET ADDRESS: 2517 State Route 31W CITY: Weedspport STATE: NY ZIP: 13166

PHONE: 315-834-6648 FAX: 315-834-6045

S/ [Signature] (SIGNATURE) President (TITLE)

Stephen L. Walczyk info@alphaboats.com
(PRINT NAME) (EMAIL ADDRESS)

S/ [Signature] (SIGNATURE) (TITLE)

(PRINT NAME) (EMAIL ADDRESS)

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NO OUT-OF-STATE BID WILL BE CONSIDERED UNLESS A NOTARIAL ACKNOWLEDGMENT IS ATTACHED.
NOTARIES ARE NOT REQUIRED FOR CALIFORNIA BIDDERS.

IN WITNESS WHEREOF the City of Long Beach has caused this contract to be executed as required by law as of the date stated below.

THE CITY OF LONG BEACH
BY [Signature] 8-9-06
Director of Financial Management Date

APPROVED AS TO FORM 8/8, 2006
ROBERT E. SHANNON
CITY ATTORNEY
[Signature]
Secy for Deputy

The City of Long Beach is committed to provide maximum opportunities for Disadvantaged, Minority, Women, Long Beach and Other Business Enterprises (DBEs, MBEs, WBEs, LBBEs and OBEs) to compete successfully in supplying our needs for products and services.

The following information is submitted regarding the bidder:

Legal Form of Bidder:

Corporation State of New York
Partnership State of _____
General Limited
Joint Venture
Individual DBA _____
Limited Liability Company State of _____

Composition of Ownership (more than 51% of ownership of the organization):

OPTIONAL

Ethnic (Check one):
Black Asian Other Non-white
Hispanic American Indian Caucasian

Non-ethnic Factors of Ownership (check all that apply):
Male Yes - Physically Challenged Under 65
Female No - Physically Challenged Over 65

Is the firm certified as a Disadvantaged Business: Yes No
Has firm previously been certified as a minority-owned and/or woman-owned business enterprise by any other agency?
Yes No
Name of certifying agency: _____

INSTRUCTIONS CONCERNING SIGNATURES

Please use the proper notary form, which applies to your type of organization on all bid documents, attachments and bonds requiring a signature by officers of your company.

NOTE: FAILURE TO COMPLY MAY RESULT IN DISQUALIFICATION OF YOUR BID.

INDIVIDUAL (Doing Business As)

- a. The only acceptable signature is the owner of the company. (Only one signature is required.)
- b. The owner's signature must be notarized if the company is located outside of the state of California.

PARTNERSHIP

- a. The only acceptable signature(s) is/are that of the general partner or partners.
- b. Signature(s) must be notarized if the partnership is located outside of the state of California.

CORPORATION

- a. Two (2) officers of the corporation must sign.
- b. Each signature must be notarized if the corporation is located outside of the state of California.

OR

- a. The signature of one officer or the signature of person other than an officer is acceptable if the bid is accompanied by a certified corporate resolution granting authority to said person to execute contracts on behalf of the corporation.
- b. Signature(s) must be notarized if the corporation is located outside of the state of California.

LIMITED LIABILITY COMPANY

- a. The signature on the bid must be a member or, if the Articles provide for a manager, must be the manager. (Only one signature is required.)
- b. Signature must be notarized if the company is located outside of the state of California.

THIS INFORMATION IS AVAILABLE IN AN ALTERNATIVE FORMAT BY CONTACTING 562-570-6362.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of New York

County of Cayuga

On 2nd June, 2006 Before me, Anna Seneca, Notary Public
DATE NAME, TITLE OF OFFICER - E.G. "JANE DOE, NOTARY PUBLIC"

Personally appeared Stephen L. Walczyk
NAME(S) OF SIGNER(S)

Personally known to me - OR - proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal
Anna Seneca
Signature of Notary
Anna Seneca #01SE6142258
Notary Public Cayuga County NY
Commission Expires March 13, 2010

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPACITY CLAIMED BY SIGNER

DESCRIPTION OF ATTACHED DOCUMENT

- INDIVIDUAL
- CORPORATE OFFICER
- PARTNER(S) TITLE(S) LIMITED GENERAL
- ATTORNEY-IN-FACT
- TRUSTEE(S)
- GUARDIAN/CONSERVATOR
- OTHER:

TITLE OR TYPE OF DOCUMENT

NUMBER OF PAGES

DATE OF DOCUMENT

SIGNER IS REPRESENTING:
NAME OF PERSON(S) OR ENTITY(IES):

SIGNER(S) OTHER THAN NAMED ABOVE

CERTIFICATE OF DOING BUSINESS AS A CORPORATION
UNDER AN ASSUMED NAME

Pursuant to Section 130 of the General Business Law of the State of New York, Barber Welding, Inc.

DOES HEREBY CERTIFY that it is a corporation with its principal place of business at Route 31, Weedsport, New York that it conducts and transacts business in this State under the name and designation of Barber Welding & Supply that the aforesaid corporation is, or intends to be, conducting or transacting business under such name and designation in the following counties at the following addresses:

<u>County</u>	<u>Address</u>
Cayuga	Route 31, Weedsport, New York

4882576

IN WITNESS WHEREOF, this certificate is duly executed and acknowledged on this 24th day of JUNE, 1982.

BARBER WELDING, INC.

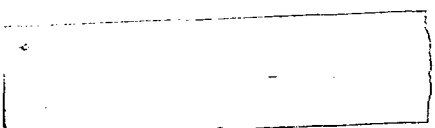
By Arold F. Weatherstone Vice-Pres.
Arold F. Weatherstone, Vice-Pres.

State of New York)
 : ss.:
County of Cayuga)

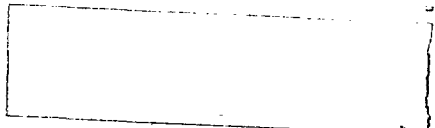
On this 24th day of JUNE, 1982, before me personally came Arold F. Weatherstone to me known who being by me duly sworn, did depose and say that he resides at 2664 Hamilton St., Weedsport, New York that he is the Vice-Pres. of Barber Welding, Inc. the corporation described in, and which executed the within Instrument; and that he signed his name thereto by order of the Board of Directors of said corporation.

Kenneth E. Biss
Notary Public.

KENNETH E. BISS
Notary Public State of New York
Residing in Cayuga County at time of Appointment
Official No. 1133
→ appointment expires March 30, 1984



State of New York }
Department of State } ss.:



31947

I hereby certify that I have compared the annexed copy with the original document filed by the Department of State and that the same is a correct transcript of said original.

INSTRUCTIONS TO BIDDERS

1. PREPARATION OF BID:

The preparation of the bid, including visits to the Site prior to submittal of the bid, shall be at the expense of Bidder. All prices and notations must be typewritten or written in ink. Any markings in pencil shall not form part of the bid and shall be disregarded by the City. Any changes or corrections in the bid must be initialed in ink by the person signing the bid. Bidder shall state brand name or make of each item bid. If not bidding on item as described, the manufacturer's name and catalog number of the substitute must be given. Bidder shall also attach specifications and furnish other data to be given. Bidder shall also attach specifications and furnish other data to establish the suitability of the substitute. Bidder shall quote separately on each item. Bidder shall quote his lowest price and best delivery date as no changes are permitted after the bid opening. Cash discounts offered for payment within 14 days or less will not be considered when evaluating bids. No telephonic, telegraphic or fax bids are acceptable.

NOTE: ALL PAGES OF THE INVITATION TO BID MUST BE RETURNED.

2. EXAMINATION OF BID:

Bidder is responsible for examining the Invitation to Bid and submitting its bid complete and in conformance with these instructions.

3. CONDITIONS OF WORK:

Bidder shall carefully examine the Site to become fully informed regarding all existing and expected conditions and matters, which could affect performance, cost or time of the Work.

4. DISCREPANCIES IN BID DOCUMENTS:

If Bidder finds discrepancies in or omissions from the Invitation to Bid, if the intent of the Invitation is not clear, or if provisions of the Specifications restrict Bidder from bidding, he may request in writing that the deficiency(s) be modified. Such request must be received by the City Purchasing Agent at least five (5) working days before bid opening date. Bidders will be notified by Addendum of any approved changes in the Invitation to Bid.

5. ORAL STATEMENTS:

The City of Long Beach shall not be bound by oral statements made by any employee or agent concerning this Invitation to Bid. If Bidder requires specific information, Bidder must request it in writing and obtain a reply in writing from the City.

6. BRAND NAMES AND SPECIFICATIONS:

The detailed specifications and/or brand names stated are descriptive only and indicate quality, design, and construction of items required. Offers will be considered to supply articles substantially the same as those described herein but with minor variations. Bidders must describe variations in the bid. Substitute items must be equal in quality, utility and performance. The phrase "or approved equal" throughout the specifications means that the City in its sole and absolute discretion shall make the final determination whether or not the substitute items are equal.

7. AWARD:

Bid shall be subject to acceptance by the City for a period of three (3) months unless a lesser period is prescribed in the quotation by Bidder. The City reserves the right to award all items to one Bidder, or to award separate items or groups of items to various Bidders, or to increase or decrease the quantities of any item. Bidder may submit alternate prices or name a lump sum or discount conditional on two or more items being awarded to him.

City's purchases of goods and services are based on the City's actual needs and requirements. The City is obligated under this contract/purchase order to purchase and pay for only those goods and services that the City needs and requires, and that the City actually orders and receives. Any dollar amount identified as a "not to exceed:" amount in any City document is not a guaranteed payment amount to any contractor or service provider. Furthermore, the City may determine that its needs and requirements may be met by City labor or by a second contractor or service provider, even after an award is made to one contractor or service provider. An award is not a promise or guarantee of exclusivity.

Bidders are cautioned that comments and statements, whether oral or written, made by City employees regarding the validity of bids, the waiver of deviations from Specifications, the possibility or probability of an award being made to a particular bidder, and other similar matters are NOT binding on the City. Bidders should not order materials, obtain financing or take other actions based on such comments and statements. Only authorization of a contract by the City Council or issuance of a Purchase Order is conclusive and binding on the City with respect to this bid and its resulting contract or Purchase Order. However, prior to authorization by the City Council or issuance of the Purchase Order, bidders may rely on: (1) approval of an "equal" or "substitute" item which will be issued in writing, and (2) written notice of intent to award by the City Council, which is often issued prior to the authorization by the City Council so that a bidder can order materials that have a long lead time.

8. PAYMENT:

Payment terms are NET/30 unless Bidder otherwise quotes. All Cash Discounts shall be taken and computed from the date of delivery or completion and acceptance of the material, or from date of receipt of invoice, whichever occurs last. Invoices must be submitted as specified at the time of shipping authorization. Partial payments may be made by the City on delivery & acceptance of goods and on receipt of goods and on receipt of Contractor's invoice.

In the event the Contract to be awarded hereunder, including specifications and other documents incorporated therein by reference, provides for the withholding of moneys by the City to ensure performance of such Contract, Contractor may deposit with the City, as a substitute for said withheld moneys, securities listed in Section 16430 of the California Government Code or bank or savings and loan certificates of deposit, or both, equivalent to the amount withheld, provided Contractor requests permission to make such substitution and bears all expenses in connection therewith.

9. SAFETY APPROVAL:

Where required by City Regulations, any items delivered must carry Underwriters Laboratories Approval or City of Long Beach City Safety Officer approval. Failure to so comply will be cause to reject Bid. Also, any equipment must conform with the Safety Orders of the California Division of Industrial Safety and OSHA regulations.

INSTRUCTIONS TO BIDDERS

10. PUBLIC WORK AND PREVAILING WAGES:

In the performance of public work under any Contract, the Contractor shall comply with provisions of Standard Specifications for Public Works Construction, latest edition, and City of Long Beach Amendments thereto. Where labor is required for public work as part of this Contract, Contractor shall pay no less than the prevailing wages set by the Director of the Department of Industrial Relations of the State of California. Copy of wage schedule can be obtained from the City Engineer.

The Director of Public Works of the City by and on behalf of the City Council has obtained from the Director of the Department of Industrial Relations of the State of California the general prevailing rate of per diem wages, and the general prevailing rate of holiday and overtime work in the locality in which the public work is to be performed for each craft, classifications or type of workers needed to execute the Contract, and the same is on file with the City Engineer, 9th floor, City Hall, 333 W. Ocean Boulevard, Long Beach, California 90802. It shall be mandatory upon the Contractor to whom the Contract is awarded, and his Subcontractors to pay not less than the said prevailing rate of wages to all workers employed by the Contractor or said Subcontractors in the execution of the Contract.

11. RIGHT TO REJECT:

City reserves the right to reject at any time any or all bids, or parts thereof, and to waive any variances, technicalities and informalties which do not impair the quality, utility, durability or performance of the items.

12. SAMPLES:

Samples of items when requested or required must be furnished to the city free of expense to the City and, if not destroyed by tests, will upon request be returned at Bidder's expense.

13. PRICES:

Prices shall be in accordance with those extended to other governmental agencies. In case of error in extension of prices, unit price will govern. All prices must be firm for the Contract term unless the City specifically provides for adjustment.

14. CITY'S POLICY FOR MINORITY AND WOMEN-OWNED BUSINESSES:

The City of Long Beach is committed to provide maximum opportunities for Disadvantaged, Minority, Women, Long Beach and Other Business Enterprises (DBEs, MBEs, WBEs, LBEs, and OBEs) to compete successfully in supplying our needs for products and services.

Please visit <http://www.longbeach.gov/diversity> for more information on the City's Diversity Outreach Program.

SUBCONTRACTORS

To assist the City in maintaining records of its Minority and Women Outreach Program, Bidder is requested to provide the following information. Answers are optional, and failure to answer will not disqualify bid. If additional space is required, bidder shall attach a separate sheet.

The following Minority- or Woman-owned subcontractors are to be utilized to provide equipment, material, supplies and/or services for this Contract requirement:

Company Name: N/A

Address: _____

Commodity/Service Provided: _____

Circle appropriate designation: MBE WBE

Ethnic Factors of Ownership: (more than 51%)
Black () American Indian ()
Hispanic () Other Non-white ()
Asian () Caucasian ()

Certified by: _____

Valid thru: _____

Dollar value of participation: \$ _____

15. BID SUBMITTAL AND WITHDRAWAL OF BIDS:

Each Bid must be delivered to the location and received on or before the due date and time stated herein. Bids will not be accepted after the date and time stated herein. Bids may be withdrawn without prejudice providing the written request is received by the City Clerk no later than the time set for opening bids. Withdrawals will be returned to Bidder unopened. Failure to respond to three (3) Invitations to Bid without reason may constitute cause to remove Bidder's name from the bidding list.

SUBMIT TO:

CITY OF LONG BEACH
CITY CLERK
333 W OCEAN BLVD/PLAZA LEVEL
LONG BEACH CA 90802

BID DUE DATE: June 8, 2006 ✓
TIME: 11:00 am ✓

IF BIDDER HAS ANY QUESTIONS REGARDING THIS INVITATION TO BID PLEASE CONTACT THE FOLLOWING CITY PERSONNEL.

A. **COMMERCIAL (TERMS AND CONDITIONS, ETC)**
MICHELLE MILLER 562-570-6020
BUYER TELEPHONE NUMBER

B. **TECHNICAL (SPECIFICATIONS, DRAWINGS, ETC.)**
JOHN SEEVERS 562-570-5406
DEPARTMENT CONTACT TELEPHONE NUMBER

16. BID OPENING PROCEDURES:

All bids will be publicly opened and read at the date and time specified in Instructions to Bidders, item 15.

It is our policy not to release price information on these bids until the department has reviewed them and award has been approved by City Council and the City Attorney. At that time, the information becomes public. You are welcome to review the results at that time by calling the buyer that handled that bid and setting up an appointment. Due to the large volume of bids received, bid results will not be given out by phone and information will not be faxed.

After the Purchasing Division has analyzed the bids, the name of the apparent low bidder will be posted on the Internet for a period of one month, together with the rankings of the top three bidders. These rankings will not contain price information.

CAUTION: Only the City Council has authority to make an award, and a contract is not in effect until the City Council makes an award and contract documents (including insurance and bonds) are signed, submitted and approved.

Bid protest procedures may be obtained from the Buyer. Protests must be submitted within seven (7) calendar days after the date of the bid opening.

INSTRUCTIONS TO BIDDERS

17. INTER-AGENCY PARTICIPATION:

IF OTHER AGENCIES EXPRESS AN INTEREST IN PARTICIPATING IN THIS BID, WOULD YOU SUPPLY THE SAME ITEMS.

YES XXX NO _____

(If yes, any agency electing to participate in this bid will order its own requirements without regard to the City of Long Beach. The City of Long Beach assumes no liability or payment guarantee on any units sold to participating agencies.)

18. AMERICANS WITH DISABILITIES ACT:

Contractor shall have and be allocated the sole responsibility to comply with the Americans with Disabilities Act of 1990 ("ADA") with respect to performance hereunder and contractor shall defend, indemnify and hold the City, its officials and employees harmless from and against any and all claims of failure to comply with or violation of the ADA as said claim relates to this contract.

CONTRACT – GENERAL CONDITIONS

1. Acceptance of the offer contained in this Contract is expressly limited to the terms and conditions of such offer as herein stated.
2. No charges for taxes, transportation, boxing, packaging crating or returnable containers will be allowed and paid by the City unless separately stated hereon. All sales, use excise or similar taxes to be paid by the City must be itemized separately hereon and on invoices. The City is exempt from payment of Federal Excise Tax under Certificate No. 95-73 0502K and none shall be charged to the City.
3. The City's obligation to pay the sum herein stated for any one fiscal year shall be contingent upon the City Council of the City appropriating the necessary funds for such payment by the City in each fiscal year during the term of this Contract. For the purposes of this section a fiscal year commences on October 1 of the year and continues through September 30 of the following year. In the event that the City Council of the City fails to appropriate the necessary funds for any fiscal year, then, and in that event, the Contract will terminate at no additional cost or obligation to the City.
4. Contractor shall deliver the materials, equipment, supplies or services, or cause the work to be performed, within the time and in the manner specified in the Contract. Times and dates stated herein are of the essence. If at any time Contractor has reason to believe that deliveries will not be made as scheduled, written notice setting forth the cause of the anticipated delay shall be given immediately to the City. Deliveries must be prepaid. C.O.D. shipments will not be accepted.
5. The City reserves the right at any time to make changes in drawings and specifications, in methods of shipment and packaging and in place of delivery as to any articles covered by this Contract. In such event there will be made an equitable adjustment in price and time of performance mutually satisfactory to Contractor and the City; but any claim by the Contractor for such an adjustment must be made within thirty days of such change.
6. Contractor warrants that the goods, machinery, or equipment delivered or the work performed hereunder shall conform to the specifications, drawings, samples or other description specified by the City and shall be fit and sufficient for the purpose intended, merchantable, of good material and workmanship, in good working order and free from defect or faulty workmanship for a period of ninety days. When defective goods, machinery, or equipment or faulty workmanship is discovered which requires repair or replacement pursuant to this warranty, Contractor shall provide all labor, materials, parts and equipment to correct such defect at no expense to the City.
7. Contractor shall defend, indemnify and hold the City, its officials and employees harmless from any and all loss, damage, liability, demands, claims, causes of action, costs and expenses (including reasonable attorney' fees) for injuries to persons (including death) or damage or destruction of property connected with or arising from the negligent acts or omissions of Contractor, its officers, agents and employees in the performance of this Contract.
8. The City reserves the right to terminate this Contract at any time in whole or in part even though Contractor is not in default hereunder. In such event there will be made an equitable adjustment of the terms that is mutually satisfactory to the City and Contractor. Upon receipt of any notice of such termination, Contractor shall, unless such notice otherwise directs, immediately discontinue all work on the Contract and deliver, if and as directed, to the City all completed and partially completed articles, work in process and materials purchased or acquired for performance of the Contract. The provisions of this section shall not limit or affect the right of the City to terminate this Contract immediately upon written notice of breach.
9. The City reserves the right to cancel this Contract or any part thereof and reject delivery of goods if delivery is not undertaken and completed when specified and in accordance with specifications. Contractor shall be charged for any direct losses, but not any consequential damages, sustained by the City by reason of such delay or failure, excepting losses caused by a delay for reasons beyond Contractor's reasonable control. Direct losses shall include any costs to the city in excess of the Contract price of obtaining goods from other sources similar to those cancelled or rejected hereunder.
10. The City shall pay to Contractor the price(s) specified in the Contract on delivery of the materials, equipment, supplies, or services and acceptance thereof by the City Manager or his designee, or upon completion of the work to be performed and accepted thereof, as specified in the Contract. Defective articles or articles not in accordance with the City's specifications shall be held for Contractor's instructions at Contractor's risk, and if Contractor so directs will be returned at Contractor's expense.
11. No return or exchange of material, equipment or supplies shall be permitted without written approval of the City Purchasing Agent.
12. All royalties for patents, or changes for the use of patents, which may be involved in any article to be furnished under this Contract shall be included in the Contract price.
13. In cases where a price subject to escalation has been agreed upon, the price escalation shall be shown as a separate item on the invoice. Unless an escalator clause has been shown as a specific part of this Contract Contractor shall not be entitled to reimbursement for costs incurred due to escalation.
14. All materials, supplies and equipment provided under this Contract shall be in full compliance with the Safety Orders and Regulations of the Division of Industrial Safety of the State of California, Title 8, California Code of Regulations (CAL/OSHA) and all applicable OSHA regulations as well as all other applicable California Code of Regulations. Contractor shall indemnify and hold the City, its officials, and employees harmless for, of and from any loss, including but not limited to fines, penalties and corrective

CONTRACT - GENERAL CONDITIONS

measures, the City may sustain by reason of Contractor's failure to comply with said laws, rules and regulations in connection with the performance of this Contract.

15. Contractor shall keep confidential and not disclose to others or use in any way to the detriment of the City confidential business or technical information that the City may disclose in conjunction with this Contract or Contractor may learn as a result of performing this Contract.
16. This Contract shall not be assigned in whole or in part, nor any duties delegated without the City's prior written approval.
17. The remedies herein reserved shall be cumulative and additional to any other remedies at law or in equity. The waiver of any breach of this Contract shall not be held to be a waiver of any other or subsequent breach. The City's failure to object to provisions contained in any communication from Contractor shall not be deemed an acceptance of such provisions or a waiver of the provisions of this Contract.
18. This Contract shall not be amended or modified, except by written agreement signed by the parties and expressly referring to this Contract.
19. Contractor shall indemnify, hold harmless and defend the City, its officials and employees from any damage, claim, loss, cost, liability, cause of action, or expense, including reasonable attorney's fees, whether or not reduced to judgment, arising from any infringement or claimed infringement of any patent, trademark or copyright, or misappropriation of confidential information or trade secrets of any third party and based on the manufacture, sale or use of goods, machinery, or equipment supplied hereunder.
20. Contractor shall furnish further itemization and breakdown of the Contract price when requested by the City.
21. Contractor, in the performance of any work or the furnishing of any labor under this Contract, shall be considered as an independent contractor. Contractor, his agents and employees shall not be considered as employees of the City.
22. Contractor and subcontractor(s) shall not discriminate against any person in the performance of this Contract and shall comply with applicable federal, state and city equal employment opportunity laws, ordinances, rules and regulations. Contractor and subcontractor(s) shall not discriminate against any employee or applicant for employment or against any subcontractor on the basis of race, color, religion, national origin, sex, sexual orientation, AIDS, HIV status, age, disability, or handicap, subject to federal and state laws, rules and regulations.
23. Contractor shall comply with all applicable federal, state and local laws pertaining to the subject matter hereof.
24. Contractor shall submit samples of all documents that Contractor may require City to execute to complete this transaction. By accepting these samples as part of the bid or by awarding the contract to a Contractor who has submitted said samples, the City does not agree to the terms stated in said samples. This Invitation to Bid and Contractor's bid shall take priority over said samples and this Invitation and Contractor's bid shall become the contract between the City and the Contractor.
25. All quantities stated herein are only ESTIMATES. The City reserves the right to increase or decrease these estimated quantities based on its actual needs and funds available.
26. The City reserves the right to exercise, at its option, an increase in expenditures by ten (10) percent annually, but the City does not guarantee such an increase.
27. Contractor shall cooperate with the City in all matters relating to taxation and the collection of taxes, particularly with respect to the self-accrual of use tax. Contractor shall cooperate as follows: (i) for all leases and purchases of materials, equipment, supplies, or other tangible personal property totaling over \$100,000 shipped from outside California, a qualified Contractor shall complete and submit to the appropriate governmental entity the form in Appendix "A" attached hereto; and (ii) for construction contracts and subcontracts totaling \$5,000,000 or more, Contractor shall obtain a sub-permit from the California Board of Equalization for the Work site. "Qualified" means that the Contractor purchased at least \$500,000 in tangible personal property that was subject to sales or use tax in the previous calendar year.

In completing the form and obtaining the permit(s), Contractor shall use the address of the Work site as its business address and may use any address for its mailing address. Copies of the form and permit(s) shall also be delivered to the Purchasing Agent. The form must be submitted and the permit(s) obtained as soon as Contractor receives a notice of award. Contractor shall not order any materials or equipment over \$100,000 from vendors outside California until the form is submitted and the permit(s) obtained and, if Contractor does so, it shall be a material breach of the Agreement. In addition, Contractor shall make all purchases from its Long Beach sales office and the Long Beach sales office of its vendors if those vendors have a Long Beach office and all purchases made by Contractor under this Agreement which are subject to use tax of \$500,000 or more shall be allocated to the City of Long Beach. Contractor shall require the same form and permit(s) from its subcontractors.

Contractor shall not be entitled to and by signing this Contract waives any claim or damages for delay against City if Contractor does not timely submit these forms to the appropriate governmental entity. Contractor may contact Eugene Fong at 562-570-5023 for assistance with the form.

CONTRACT – GENERAL CONDITIONS

28. The California Integrated Waste Management Act (Public Resources Code, Sec. 40000 et seq.) requires governmental entities to achieve 50% diversion of waste. In conjunction with the City's Integrated Resources Bureau, the City is currently developing an Environmentally Preferable Product (EPP) procurement plan. These guidelines enable the City Purchasing Agent to greatly expand procurement programs by moving beyond a singular consideration of "recycled-content". EPP procurement facilitates the purchase of products that qualify within a broad range of "environmentally preferable" criteria, such as: minimal packaging; energy savings; non-toxic; manufactured from sustainably-harvested materials. Contractor shall monitor products that fall within the EPP guidelines and document all criteria that qualifies the product as an EPP. Documentation from the manufacturer will be acceptable and may be required during the term of the Contract.

29. THE FOLLOWING ADDITIONAL CONDITIONS APPLY ONLY IN CASES WHERE THE CONTRACTOR IS TO PERFORM WORK ON CITY PROPERTY:

- A. If at any time during the progress of the Work, Contractor shall allow any indebtedness to accrue for labor, equipment, or materials, or which may become a claim against the City, Contractor shall immediately upon request from the City pay such claim or indebtedness or cause such lien to be dissolved and discharged by giving a bond or otherwise and, in case of his failure so to do, the City may withhold any money due Contractor until such claim or indebtedness is paid or may apply such money toward the discharge thereof; or in such event the City may, at its option, declare this Contract to be terminated, take possession and control of the Work, and complete the same or cause the same to be completed according to the specifications. Contractor shall pay to City the difference between the Contract price and the actual cost to the City in completing or causing the Work to be completed.
- B. Contractor shall carry on the Work at his own risk until the same is fully completed and accepted and shall, in case of any accident, destruction or injury to the Work or materials before its final completion and acceptance, repair or replace the Work or materials so injured, damaged and destroyed, at his own expense and to the satisfaction of the City. When materials and equipment are furnished by others for installation or erection by Contractor, Contractor shall receive, unload, store and handle same at Site and become responsible therefore as though such materials and equipment were being furnished by Contractor under the Contract.
- C. Contractor shall procure and maintain at Contractor's expense for the duration of the Contract the following insurance against claims for injuries to persons or damage to property which may arise from or in connection with the performance of the Contract by Contractor, his agents, representatives, employees or subcontractors:

(1) Comprehensive General Liability: \$1,000,000 combined single limit for each occurrence or \$2,000,000 General Aggregate for bodily injury, personal injury and property damage, including products and completed operations coverage.

The City, its officials, employees and agents shall be named as additional insured's as respects: liability arising out of activities performed by or on behalf of the Contractor; products and completed operations of Contractor; premises owned, leased or used by Contractor.

(2) Automobile Liability: \$500,000 combined single limit per accident for bodily injury and property damage covering owned, non-owned and hired vehicles.

(3) Workers' Compensation as required by the California Labor Code and employers Liability limits of \$1,000,000 per accident.

Any self-insurance program and self-insured retention must be separately approved in writing by the City.

Each insurance policy shall be endorsed to state that coverage shall not be cancelled by either party or reduced in coverage except after thirty (30) days prior written notice to the City.

Acceptable insurance coverage shall be placed with carriers admitted to write insurance in California or carriers with a rating of or equivalent to A: VIII by A. M. Best & Company. Any deviations from this rule shall require written approval from the City's Purchasing Agent.

All coverage's for subcontractors shall be subject to the requirements stated herein and shall be maintained at no expense to the City.

Contractor shall furnish the City with certificates of insurance and original endorsements providing coverage as required above. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf.

Before any of Contractor's or Subcontractor's employees shall do any work on City's property, Contractor shall furnish the City with the required certificates evidencing that such insurance is being maintained. Such certificates shall specify the date when such insurance expires. Such insurance shall be maintained until after the Work under the Contract has been completed and accepted.

CONTRACT – GENERAL CONDITIONS

Such insurance as required herein or in any other documents to be considered a part hereof shall not be deemed to limit the Contractor's liability under this contract.

- D. Contractor shall defend, indemnify and hold harmless the City, its officials and employees from and against any liability for claims for bodily injury and property damage arising out of negligent acts, omissions or errors of any employee of the Contractor at the Site.
- E. Contractor shall list the name and location of the place of business of each subcontractor who will perform work, labor, or services for Contractor, or who specially fabricates and installs a portion of the work or improvement in an amount in excess of one-half of one percent of Contractor's total contract cost. The subcontractor list shall be submitted with contractor's bid.

SPECIAL CONDITIONS:

The design of the vessel must embody the latest approved automotive engineering practices and the workmanship must be of the highest quality in its respective field. The vessel shall be completely equipped as specified and be ready for service upon delivery. The unit shall comply with the latest editions of the United States Coast Guard Regulations, applicable state and federal regulations pertaining to watercraft, State of California and Federal motor vessel laws where applicable, SAE Standards, and provisions of Cal OSHA. The omission from the specifications of any standard feature as shown in manufacturer's brochure shall not alleviate the Contractor from the responsibility of furnishing a complete vessel with all of the manufacturer's latest improvements in the production unless specifically deleted in the specification. The vessels and all components shall be standard production items unless otherwise specified.

ALTERNATES OR EXCEPTIONS: Wherever the term "or approved equal" is specified, bidder is cautioned that the City has the final decision whether an item is an approved equal or not. Bidder shall submit data with your bid substantiating a request to substitute an "equal". Failure to do so may disqualify your bid

WARRANTY: The Contractor shall guarantee the vessel against defects in material and workmanship beginning the date unit is placed in service, for the time period inserted below. The Contractor shall repair or replace any such item(s) necessary during the warranty period at its own cost and expense, without cost to the City.

Warranty on labor *See attached* Warranty on parts *See attached*
Warranty Terms & Conditions

CARE & CUSTODY: The Contractor shall be liable for all loss or damage to the vessel while in its possession or the possession of any of its agents. Contractor shall reimburse the City for any loss or damage to the vessel in its or its agent's care or custody.

UNIT SERIAL NUMBER Vessel shall have a unique serial number affixed to the structure in a location that will prevent removal or alteration.

SHIPPING (SPECIAL) INSTRUCTIONS: Prices quoted shall include all delivery, unloading and pick-up charges to a location in the City of Long Beach designated by the City.

MANUALS:

All parts and repair manuals shall be delivered with the vessel at no cost to the City of Long Beach.

FACTORY VISITS:

Provide two (2) factory visits for three (3) City personnel. Factory visits shall be made at the beginning of construction and prior to delivery.

SPECIFICATIONS
Trash/Debris Skimmer Vessel

	<i>IMPERIAL SYSTEM</i>	<i>METRIC SYSTEM</i>
DIMENSIONS		
Shipping (L x W X H)	40'-0" x 12'- 0" x 8'8" *	12,02 x 3,66 x 2,65 *
Operating (L x W x H)	40'-0" x 12' - 0" x 10'-5"	12,02 x 3,66 x 3,26 M
Shipping Weight	15,000 lbs	6,875 KG
Hull Dimensions (Length x Beam)	32'-0" x 12' - 0"	9,60 x 3,66 M
DRAFT Empty (Unladen/Laden)	23"/28"	58 / 71 cm
No. of Compartments	Four (4) Each Pontoon — Eight (8) Total	
OPERATING CAPACITY		
Collecting Width	12' — 0"	4,27 M
Depth	0 - 2'-0"	0 — 0,61 M
STORAGE CAPACITY		
Weight	7,000 Lb.	3175 KG
Volume	400 Cu. Ft.	11,33 M ³
POWER PLANT		
Type	Diesel Engine, (Liquid Cooled) Fully Enclosed	
Power Output (Net, Cont.)	65 HP @ 2400 RPM	48 kW @ 2400 RPM
Fuel Capacity	50 US Gallons	94 Liters
Electric System	12 Volt DC Circuit, Includes Electric Engine Start & Monitoring Gauge Package	
HYDRAULIC SYSTEM		
Pump	Two (2) Variable Displacement Piston Unit	
Controls	Manually Controlled, Variable Volume Valve Bank	
Hydraulic Tank Capacity	65 US Gallons	244 Liters
Filtration	10 Micron Return Filtration System	
PROPULSION		
Type —Two	Hydraulically Powered, Bi-Directional Variable Speed Bronze Propellers	
Drive Unit	(2) Variable Speed, Independently Controlled Hydraulic Wheel Motors	
Deployment	Hydraulically Over Stern Includes Power Lift	
All dimensions & weights are net, not including options.		

The specifications are for a response skimmer boat capable of retrieving floating debris and trash in a saltwater environment. The vessel will be operated in a highly corrosive salt laden environment; therefore the boat shall be equipped with trash collection, storage and discharging systems that are protected from the corrosive environment by using a minimum of 304 stainless steel for piping, fittings and bearings throughout the vessel.

Driving the boat with its skimmer head intake submerged into the materials performs the skimming operations. The forward motion of the boat as well as the inward travel of the skimmer head conveyor belts shall deposit the recovered trash debris, and other various floating materials into the conveyORIZED storage hold. When the depth of the trash stack on the storage conveyor hold reaches its maximum height, the conveyor shall advance rearward to make room for the next stack. This procedure shall be repeated until the storage hold is filled. Once the storage conveyor is filled, the skimmer head shall raise and the boat travel to shore to interlock with a shore or pier loading conveyor. The boat mounted storage conveyor shall reverse and become the discharge conveyor.

The shore/pier conveyor units shall then transfer the trash in unison into a waiting truck or dumpster for further disposal.

The boat shall be highly maneuverable by means of a dual thrust system and equipped with power per specifications to perform all skimming, loading, unloading propulsion and navigational functions. All operations and functions shall be controlled from an operator's cab centered port to starboard on the upper deck.

The entire boat, its superstructure and attachments shall be folded, stored or collapsed into a single road transportable package without major disassembly.

General

The overall dimensions of the boat shall be as follows:

Length:	Shipping – 40 feet	Operating – 40 feet
Width:	Shipping – 12 feet	Operating (standard) – 12 feet
Height:	Shipping – 9 feet, 6 inches	Operating – 11 feet, 3 inches

The operating height does not include any options, i.e. cab, spud anchors, antennas, or added lighting options.

All dimensions and weights shall be net.

The basic shipping weight of the skimmer boat shall be 15,900 lbs (6,875 kg) dry.

Vessel

Where applicable the vessel shall be constructed of heavy gauge carbon steel and shall incorporate a twin hull with multiple compartments and a deck with all stainless steel

fixtures and fittings to safely attach the superstructure and propulsion units. The hull sides shall be rib formed for rigidity. All sides, deck and bottom shall be reinforced with inner frame works. The pontoon bottom shall be double reinforced for additional strength and exterior protection.

The catamaran type vessel shall have 4 sealed compartments per pontoon with individual inspection ports (total of 8).

The hull material thickness shall be as follows:

Main Hull	12 & 14 GA
Bow & Stern	7 GA
Deck	14 GA

The deck shall be finished with anti-skid material in the personnel passage areas.

The overall pontoon dimensions shall be:

Length – 32 feet, Width 2 feet 10 ¾ inches, Height 2 feet 10 7/8 inches

The height shall not include any skids, gunwales or deck attachments.

Power Plant

The power plant shall be based on a 67.7 HP (48 kw) Yanmar Diesel liquid-cooled fully enclosed engine, or approved equal. The horsepower shall be based on a net continuous rating at 2500 RPM including electric engine start and monitoring gauge package.

The diesel engine shall be mounted to a base frame – isolated by vibration mounts – astern and aft of the operator's cab.

The engine shall be equipped with a 12 volt D.C. electric system supported by a heavy-duty deep cycle, marine battery.

The power plant shall be housed in an engine enclosure constructed of aluminum primer painted with Dupont Corlar 824S or approved equal. The enclosure shall be equipped with two access doors and shall be lockable.

The engine shall be remote controlled and shall be monitored from the control bridge.

Control Bridge

The Control Bridge cab shall be of aluminum construction and shall be furnished with interior surfaces that are upholstered with sound absorbing vinyl covered acoustical foam that shall prevent the operator from experiencing more than 85 db of noise

The cab assembly shall be equipped with: an operator's seat that is vinyl covered, back supported, ergonomic cushioned and mounted with sliding adjustment. Cab shall also include: rear lockable door, fan, air horn, remotely controlled search light, fold down VHF antenna mounted to the roof of the cab, heater, one-half pound (2.5 lb) A.B.S. fire

extinguisher mounted on the bridge side of the ladder, a dome light that illuminates the interior of the cab, front, safety glass window equipped with a window wiper, two (2) sliding safety glass side windows.

- All glass except front windshield shall be tinted to the following specifications:
- UV Protection 99.9%
- Heat Rejection 58%
- Light Transmitted 81%

The console shall contain the engine and hydraulic systems monitoring gauges including:

- tachometer
- hour - meter
- engine oil pressure
- engine temperature gauge
- hydraulic system pressure gauges
- volt meter gauge (optional)

Engine start and stop switch, warning lights and throttle control shall be mounted on the console. All engine and hydraulic gauges shall be illuminated.

All hydraulic controls shall be mounted within comfortable reach of the operator. Symbols and/or labels shall identify all control and gauges.

Railings shall be provided on both side of the deck area for personnel protection.

SPECIFICATIONS FOR PONTOON

Anodes:

Four 6" x 6" zinc anodes shall be installed on each pontoon, for a total of 8 on the pontoons.

Construction of the pontoons, where applicable, shall be of heavy gauge carbon steel. All steel components shall be painted with a primer, Dupont Corlar 824S epoxy polyimide primer or approved equal prior to the application of a finish color coat.

Hydraulic System

Shall be outfitted with two hydraulic systems sharing one hydraulic reservoir.

The first hydraulic system shall be committed to the boat's twin hydraulic propellers.

The second hydraulic system shall supply power to all functions for the purpose of trash recovery, storage and discharge.

The functions include:

- a. All cylinder actuation:
 - 1. Trash skimmer wings/delivery booms
 - 2. Skimmer head lift
 - 3. Discharge conveyor lift
 - 4. Propulsion unit lifts
 - 5. Options
- b. All hydraulic conveyor motor drives:
 - 1. Front conveyor drives
 - 2. Wing drives
 - 3. Storage conveyor drive
 - 4. Options

The secondary hydraulic system shall be comprised of pressure and flow compensated pump, a load sensed directly actuated hydraulic directional valve assembly and appropriate filtration.

The hydraulic reservoir shall have a capacity of 65 gallons (U.S.) (246 liters). The hydraulic tank shall be mounted in a lockable hydraulic room astern and aft of the operator's cab next to the engine compartment.

The hydraulic reservoir shall be equipped with the following components:

- 1. Clean-out lid.
- 2. Level gauge
- 3. Temperature gauge
- 4. Drain
- 5. Suction Strainer (100 mesh)
- 6. Return Filter (10 Micron)

Both hydraulic circuits shall be protected by pressure overrides. The propeller motors each shall be protected by cross over cushion (relief) valves.

The propulsion units and all hydraulic pipes, lines, fittings and adapters shall be minimum 304 stainless steel.

Fuel System

The diesel fuel system shall be comprised of a single stainless steel tank mounted on the control deck behind the seat, outside of control cab, with a lockable filler breather, suction and return lines and fuel level sending unit with a drain.

The fuel tank shall have a minimum capacity of 50 US Gallons (94 Liters). If a larger tank is available without affecting the operation of the vessel, install it.

Propulsion System

The propulsion system shall consist of two bi-directional propellers. These propellers shall be hydraulically driven, independently controlled for direction and infinite variable speed from zero to maximum RPM.

The propulsion units shall be deployed with "over stem" mounting arms and equipped with a hydraulic power lift and manual tilt system.

All motor mounting arms, hydraulic drop lines, hydraulic pipes, lines, fittings and adapters shall be a minimum of 304 stainless steel.

Steering and maneuvering of the boat shall be accomplished by independently varying propeller speeds, as well as directions in unison or opposed to each other and shall allow the vessel to turn on its own radius.

The propellers shall rotate in opposing directions when the boat is forward driven. The boat shall be equipped with one "left-hand" and one "right-hand" propeller. The propellers shall be three blade versions with a diameter of 16" (45.5 cm) and made of bronze.

The propellers shall be directly mounted to stainless steel shafts. Shaft output horsepower shall be 25 HP (18.7 kW) each.

Skimmer Head

The skimmer head shall consist of a head lift frame, a front conveyor and two side skimmer wings or delivery booms. All skimmer head components shall be painted with a primer, Dupont Corlar 824S epoxy polyamide primer or approved equal prior to application of the finish coat. All bearings associated with moving components on the skimmer head shall be manufactured of stainless steel.

The lift frame shall be a welded steel structure of sufficient strength to lower and raise the intake portion of the skimmer head into and out of the water. The average working depth of the skimmer head shall be 18" (46 cm), but capable of being lowered to 24" (64cm) for occasional recovery of large objects. The skimmer head shall be equipped with a front conveyor discharge positioning system for placing large recovered objects from the front conveyor into the storage hold.

The front conveyor shall be a stainless steel structure, providing belt tracks for the conveyor belts and sidewalls with an intake frame, which holds one side skimmer wing (delivery boom) on each side.

The belt tracks shall be lined with UHMW plastic wear strips to protect against belt wear. The conveyor belt shall be a heavy-duty flat wire mesh belt (1" x 1" square openings, 2" high, .062 float wire thickness, gauge 6 connecting rods, 1,400 lbs./ft. of width tensile strength) made of stainless steel. Attached to the belts shall be conveyor cleats (flights) to avoid "roll back" of cylindrical objects during ' skimming operations.

A sprocket tubular shaft shall be powered via a high torque hydraulic motor, connected to each other by a flexible coupling that drives the belt.

Belt adjustment shall be accomplished by means of a parallel tensioning frame at the drive end of the conveyor system for easy access. The idler shaft shall remain in a fixed position, running underwater during skimming operations.

The skimmer wings shall be flexible angular extensions to the intake width of the front conveyor. When fully opened the skimmer head shall have a minimum operating width of 10 feet (3.05 m).

The skimmer wings shall be articulated independently by two hydraulic cylinders and when fully closed form a "point" forward of the front conveyor to facilitate the entrapment of illusive trash in tight quarts, around other boats, docks and near piers.

The standard skimmer wings shall be equipped with stainless mesh belts and drives to enhance lateral transfer of floating objects towards the front conveyor intake and inclining belt. A vertical in-feed drive at the front tip, as well as protective "bump wheels" on the front-outside shall be provided.

The wing conveyor frame shall be equipped with a hydraulic belt drive motor, flexible coupling, bearings, drive shaft, idler shaft, a tensioning devise and UHMW plastic wear strips on all belt tracks and guides.

Storage Conveyor

The storage conveyor system shall consist of two sections: (a) the front conveyor section, which is part of the skimmer head and (b) the rear or main conveyor frame.

The storage conveyor system shall be equipped with the same type of conveyor belts, drives, bearings, hydraulic motors and UHMW wear strips, and belt tensioning system as described in the "Skimmer Head" section.

The top layer of the storage conveyor belt shall be supported by rib formed metal floor sections, which hold the wear strips. These floors shall be bolted into the conveyor frame to avoid corrosion between overlapped welds.

The main conveyor frame shall move forward and backwards during loading and unloading by means of a hydraulic cylinder.

The front and main conveyor frames shall have a separate conveyor belting system.

The maximum trash load capacity in the storage conveyor hold shall be 7,000 lb. (3175 kg) by weight or 400 ft (11,33 M³) by volume. This load shall be discharged in 60 to 90 seconds under normal conditions.

Hydraulic Cylinders

All hydraulic cylinders shall be stainless steel cylinder extension rods.

Fasteners

All standard fasteners, i.e. nuts, bolts, screws, washers, pins, etc., shall be made of 300 series stainless steel.

Protective Finish

All metal parts of the vessel, super-structure, propulsion units and skimmer head shall be painted with a primer, Dupont Corlar 824S epoxy polyamide primer or approved equal, prior to application of a top coat. All coatings shall be a uniform thickness and completely cover all corners and crevices. An anti-foul coat on the hull below the maximum water line shall be applied.

The standard color combination of the harvester shall be the following. All finishes shall be Dupont Imron 2000 or approved equal:

Pontoon – Safety Blue
Storage conveyor – Safety Blue
Skimmer head - Safety Blue
Propulsion units - White
Deck – Aluminum (non coated)
Railings engine cover – Aluminum
Operator's cab - White

All surfaces shall be sandblasted prior to coating. Sandblasting of the hull and skimmer head shall be in accordance with SSPC-5 white metal blast cleaning.

Safety equipment shall include:

- 1 each 2 pound ABS Fire Extinguisher
- 1 each Adult-size U.S. Coast Guard approved life vests.
- 1 each Life ring and 50 feet of rope

Warning labels shall be mounted in all areas where caution and care must be observed.

Miscellaneous Standard Accessories to be included at no cost to the City:

- Operators Manual Training
- Warranty – per company statement
- Standard Tool Kit
- Standard Spare Parts Package

SPECIFICATIONS TRAILER

1. DIMENSIONS	Overall Length 46' Width 8' -6" Height to Trailer Deck 2' – 10"
2. TRAILER WEIGHT	5,320 pds.
3. TONGUE WEIGHT	900 pds (empty) 2,000 pds (max)
4. GVWR	21,000 lbs
5. AXLES	3 @ 7000 lbs capacity each
6. WHEEL BEARING	Easy Lube or approved equal
7. TIRE SIZE	235/85R16G865
8. RIM BOLT CIRCLE	8 on 6 ¹ / ₂ inches
9. BRAKES	Electric
10. LIGHTING	DOT legal, electric with sealed lenses and detachable light bar.
11. HITCH	3" pintle eye
12. JACK STAND CAPACITY	12,000 lbs with drop leg
13. TRAILER FRAME MATERIAL	Steel
14. FINISH	Macro Epoxy Primer with Acrlin 218 Immersion Topcoat or approved equal
15. COLOR	Black
16. WINCH	Hydraulic, 12,000 plus sheave pull capacity
17. WINCH CABLE (Diameter x Length)	3/8 x 100
18. POWER SOURCE	Built In - 15 hp Kohler or approved equal, Air Cooled Engine,Hydraulic Power Pack, Electric Start

Trailer shall have a unique serial number affixed to the structure in a location that will prevent removal or alteration.

PIER CONVEYOR

Pier conveyor shall serve as an unloading link between land and water of material collected and stored in the trash/debris skimmer vessel. The pier conveyor shall be compatible with the trash/debris skimmer vessel. The pier conveyor shall offload from the trash/debris skimmer vessel at low and all other tidal conditions to trucks or standard 20 cubic yard containers on shore.

Shall be in compliance to all applicable Federal, State and local laws, codes, rules and regulations including ANSI and OSHA as required. No prototypes are allowed.

General Dimensions:

46 feet – 6 inches 8 feet – 4 inches 5 feet

51 feet

8 feet – 4 inches 5 feet

10,000 pounds 19 feet

Shall be driven by means of two hydraulic orbit motors, each with displacement of minimum of 22.8 cubic inches per revolution. Drive shaft shall be tube type with sprocket teeth and shall provide full width support for belting. Stub shaft ends shall be stainless steel. Idler shaft shall be tube type with sprocket teeth for proper alignment. Stub shaft ends shall be stainless steel. Under water conveyor bearing shall be stainless steel, sealed, flange type with remote grease fittings. Belt adjustment shall be by means of stainless adjustment screws and stainless steel nuts.

Bed Length 43 Feet

Bed Width: 5 Feet — 2 inches

Belting 1 x 1 Heavy Duty Stainless Steel Belting shall consist of 2 —
30 inch wide rows

Flight Clips:

Shall be Stainless Steel Bolt On with maximum 5 feet apart and 4 bolts per flight

Belt skid shall be UHMW plastic with minimum of 8 on top side and 4 on bottom side of conveyor.

Shall be a minimum of 42 feet long per belt skid.

Flared Hopper Width: 9 Feet 4 inches - minimum

Running Gear:

Road Axle Capacity: Easy Lube or approved equal shall be supplied with three axles with two (2) wheels and tires per axle for a total of six wheels and 6 tires.

Shall be supplied with two rear axles (for transporting), shall have 6,000 lbs rating with fenders, springs and 12 volt DC electric brakes.

The front axle (pier/land stationary) shall have 8,000 lbs rating.

Safety chains, hooks, screw jack and removable light bar for towing shall be included.

The drawbar shall be fitted with a height adjustable pintle hitch of 2 -1/2 inches diameter.

The crew jack shall be rated at 6,000 lbs. minimum.

Removable 12 volt light bar with running lights, turn signals, stop light and side clearance lights shall be included. It shall be connected to the trailer electric system by means of quick connector plug. The trailer electric system shall be connected to the tow vessel electric system by means of a quick connector plug. The under carriage shall be designed to allow deployment off piers or docks up to twelve (12) feet above water level.

Tires: Shall meet or exceed towing axle rating.

Lift Frame: Shall include a hydraulically powered lift frame with cylinders, safety valves and ground pads.

The lift frame shall be hydraulically operated to raise and lower the discharge height to compensate for variable heights, or land levels. Lift shall be accomplished by (2) two double acting hydraulic cylinders with four (4) inch bores and ball type safety valves.

Drawbar: A single drawbar shall be mounted on the discharge end. The drawbar shall be mounted on a frame, used for towing and for job site positioning. It shall swing back when the conveyor is elevated into operating position. Deployment shall be by means of two (2) double acting hydraulic cylinders. This frame shall allow the conveyor to be tilted while attached to the tow vessel as it is being positioned over a pier or seawall.

Controls: Manual hydraulic valve with (2) two spring returns to center and (1) one lever detented shall be installed.

Power Pack:

Type: Portable with handles shall be installed for easy maneuverability and shall have a maximum weight of 265 lbs.

Engine: 20 Hp. Twin Cylinders, Gasoline, Kohler or approved equal, Air Cooled
Electric Start

Hydraulics: Self contained

Battery: 12 volt

Flotation:

Stainless steel tanks shall be watertight and shall have 2 inch inspection ports on top of flotation tank and a 1 inch drain on rear lower back corner. Watertight compartment shall be fully welded and sealed. Stiffeners shall be provided as necessary to prevent bulging of formed skins. There shall be a minimum of two baffles per flotation tank. Tank material shall be a minimum of 12 gauge stainless steel.

Tie Downs:

Six (6) D-rings shall be provided for means of securing conveyor to pier/seawall. City shall provide securing material.

Anodes:

Two (2) zinc anodes each shall be fitted to reduce damage caused by electrolysis on the flotation tank and two (2) shall be fitted on the conveyor frame.

Interlock System:

An interlock system shall be installed to stabilize and reduce the possibility of spills during the unloading process.

Color:

Shall be Alpha Boats Unlimited or approved equal paint colors of Safety Orange with Safety Blue

Material:

Pier conveyor frame shall consist of structural steel. Sheet metal shall be minimum of 12 gauge. Flared hopper shall be minimum of 12 gauge. Below flared hopper metal shall be 7 gauge minimum for necessary support. Below water level — fasteners shall be stainless steel.

Finish:

Shall be painted with a primer, Dupont Corlar 824S or approved equal, after sandblast finish.

Miscellaneous:

One set of operators manuals shall be provided at no cost to the City.
One Spare parts package shall be provided at no cost to the City.

Training:

Eight hours of operations and maintenance training shall be provided by company training technician at a City facility at no cost to the City .

BID SECTION

Breakdown

\$ <u>266,994.00</u>	Cost	Marina Cleaner MC-402	185,682.00
Two hundred sixty six thousand nine hundred ninety four		Trailer TLT400-E	22,312.00
\$ <u>22,027.00</u>	Tax if applicable	Pier Conveyor PC-6036E	39,000.00
Twenty two thousand twenty seven dollars/ zero cents		Shipping/Freight	15,000.00
\$ <u>289,021.00</u>	Total	OnSite Insp.	5,000.00
Two hundred eighty nine thousand twenty one dollars/ zero cents			

THE CITY WILL AWARD TO THE VENDOR WHO CAN BUILD THIS UNIT AS ONE

Length of time to complete the build 6 months from date of purchase order

Length of time to complete all work will be a factor in award. Contractor is required to list length of work on specification. Failure to do so may disqualify your bid.

Can you comply with all specifications listed herein: yes or no
Failure to comply with all specifications may disqualify your bid

Time is of the essence for delivery. Failure to deliver on the date stated is a material breach of the contract. The parties agree that damages for delay would be difficult to calculate. Therefore, liquidated damages in the amount of \$ 250.00 per day will be withheld from final payment.

Anti-foul paint must be applied and vessel must be directly put in water immediately after application for 1-2 days, or application does not work properly. Due to the delivery time being after November, 2006 and weather conditions for applying anti-foul paint, a deduction of \$500.00 would be credited if City of Long Beach, Public Works, Fleet Services would apply upon delivery.

AS



Alpha Boats Unlimited

• *Weed Harvesters* • *Trash/Debris Skimmers* • *Crane Boats* • *Transport Barges* • *Support Equipment*

Water Management Systems

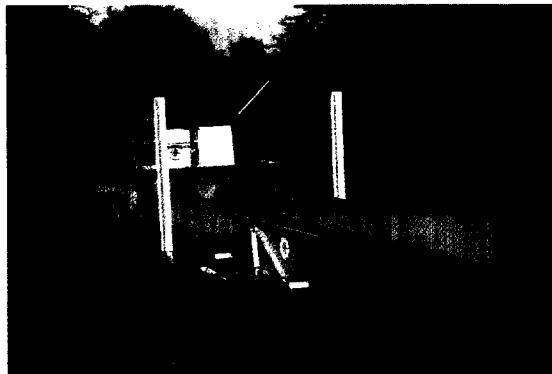


*Aquatic
Weed
Harvesters*

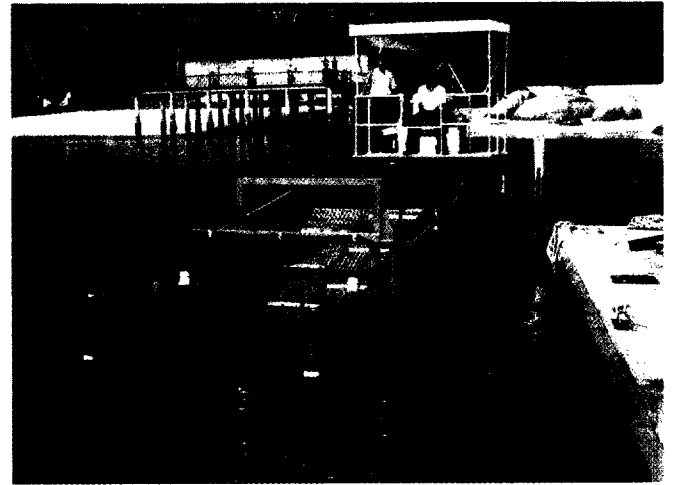
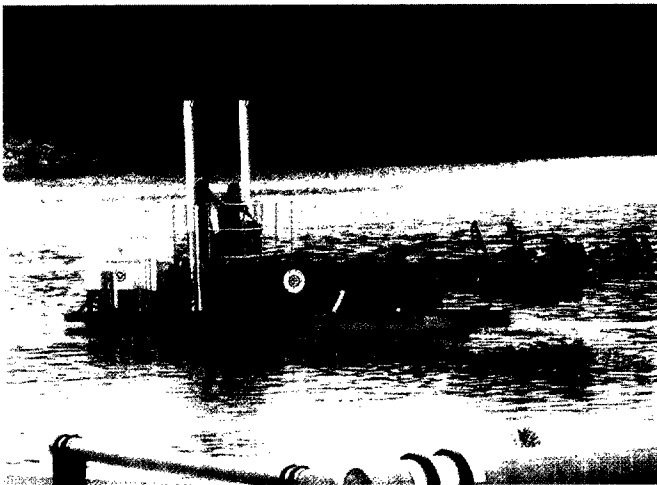
*Series
FX
HB
SR*



*Ideal Go-Between
For Aquatic
Operations*



*TS Series
Aquatic Transport
Vessels*



MC-202 Marina Cleaner – Trash/Debris Skimmer Boats

Innovative Thinking

Customer Focused

For Clean Waterways Count on Alpha Boats!

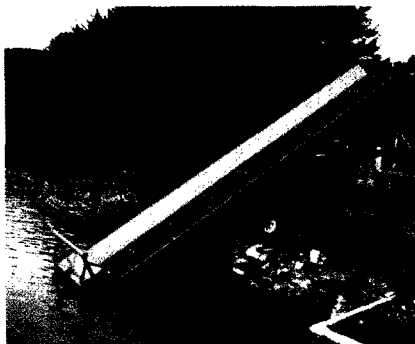


Dredging Clam Shell



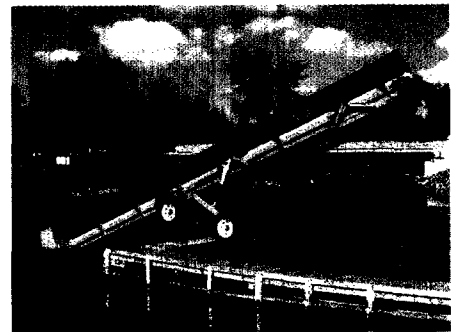
Aquatic Weed Harvesting Head

*AM 2000 "Hydro-Mate"
Universal Water Management Boat*

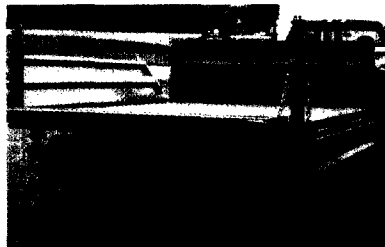
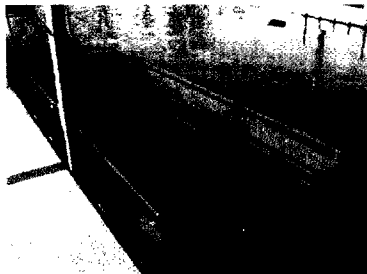


*SL Series
Shore/Pier Conveyors*

*Speedy Mobilization
"One-Step" Positioning*

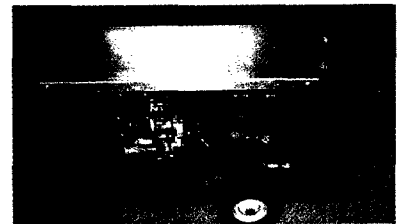


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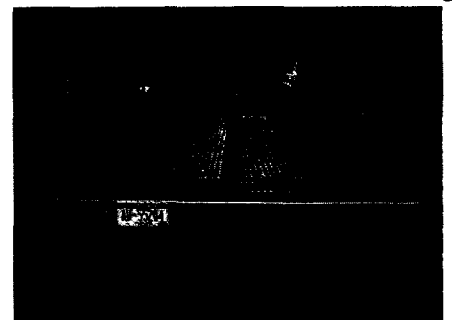
*3-Way Tipping Trailer
Dumps Left/Right/Rear*

*P
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P
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C
K*



*TLT- Series
Tilt Deck Trailers*

*Combination
Trailer-Conveyor*



Original Equipment Manufacturers

Prevention is the most cost effective maintenance program -- Don't be caught without your paddles!
We provide reconditioning, upgrades, repairs and spare parts for a variety of equipment to suit your specific water management needs. Used equipment may be available – contact us for further information.

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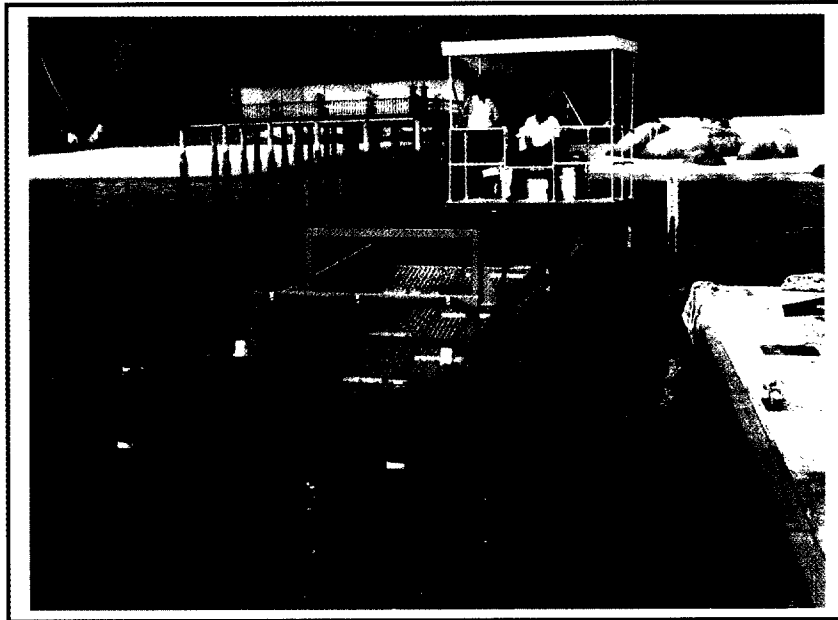
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Alpha Boats Unlimited

◆ *Trash & Debris Skimmers* ◆ *Aquatic Harvesters* ◆ *Crane Boats* ◆ *Dredges* ◆ *Oil Skimmers*

MC – 402 “Marina Cleaner”



“Marina-Cleaner” Pontoon Version
Flexibility, Maneuverability and Speed of a Twin Hull



**Articulating Vertical
Wing Conveyors Capture
and
Deliver the Debris to the
Front Pick-Up Conveyor**

**Easily Retrievable
Large and Small Objects**

**Preventive “Roll-Back”
with cross cleats**



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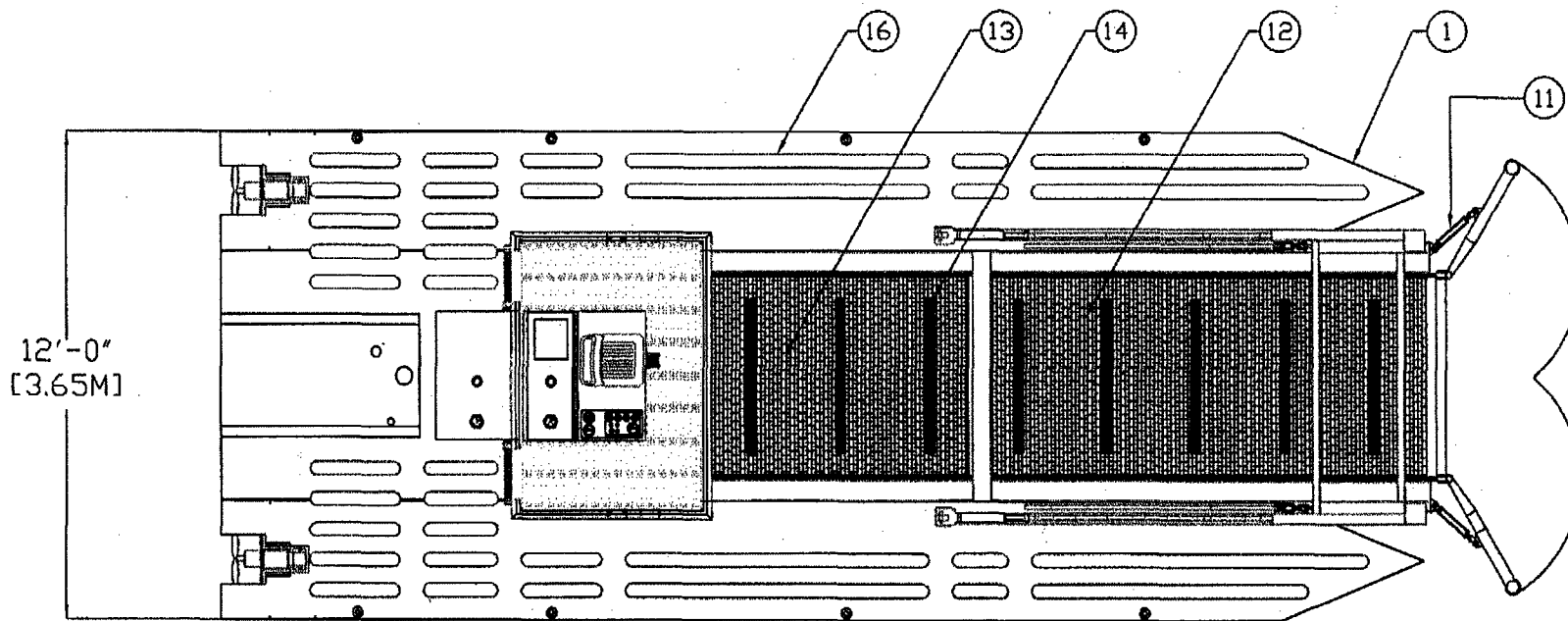
Alpha Boats Unlimited

♦ Trash & Debris Skimmers ♦ Aquatic Harvesters ♦ Crane Boats ♦ Dredges ♦ Oil Skimmers ♦ Support Equipment

SPECIFICATIONS Trash/Debris Skimmer Vessel “MARINA CLEANER” MODEL MC-402

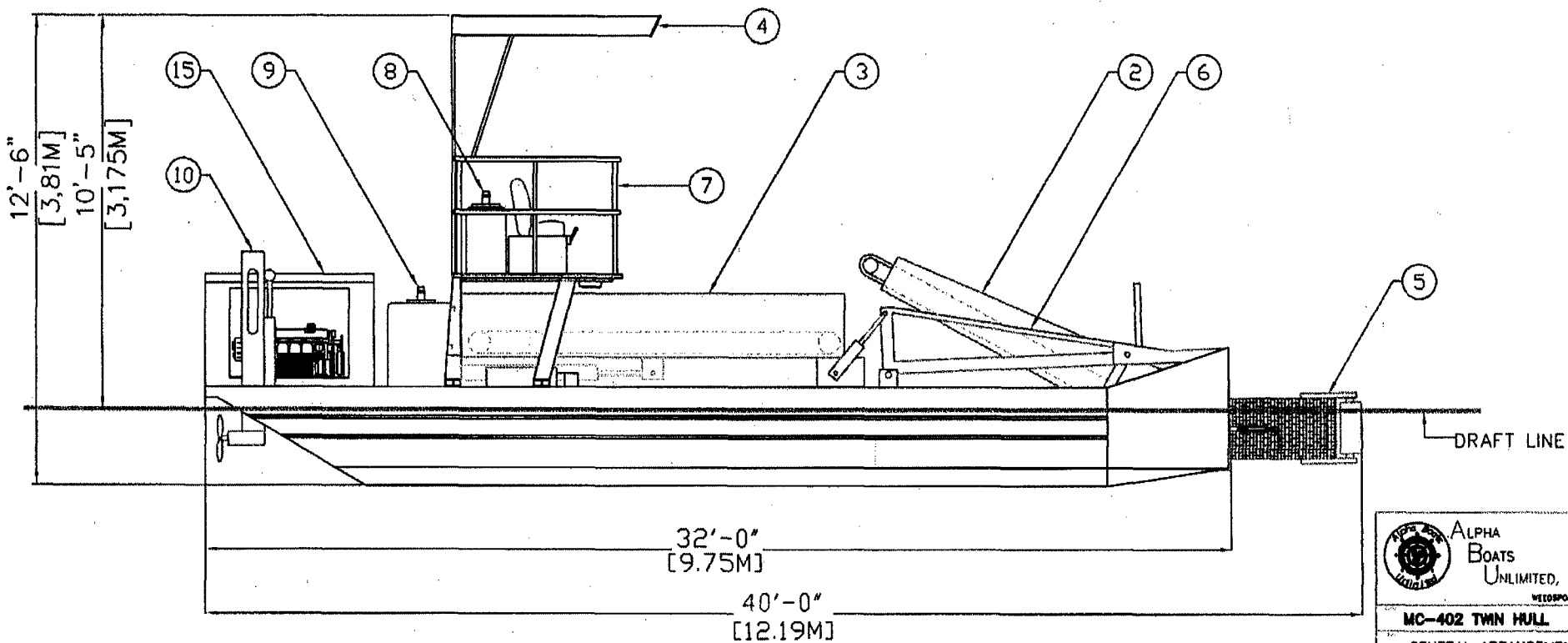
	<i>IMPERIAL SYSTEM</i>	<i>METRIC SYSTEM</i>
DIMENSIONS		
Shipping (L x W x H)	40'-0" x 12'- 0" x 8'8" *	12,02 x 3,66 x 2,65 *
Operating (L x W x H)	40'-0" x 12' - 0" x 10'-5"	12,02 x 3,66 x 3,26 M
Shipping Weight	15,000 lbs	6,875 KG
Hull Dimensions (Length x Beam)	32'-0" x 12' - 0"	9,60 x 3,66 M
DRAFT		
Empty (Unladen/Laden)	23"/28"	58 / 71 cm
No. of Compartments	Four (4) Each Pontoon – Eight (8) Total	
OPERATING CAPACITY		
Collecting Width	12' – 0"	4,27 M
Depth	0 - 2'-0"	0 – 0,61 M
STORAGE CAPACITY		
Weight	7,000 Lb.	3175 KG
Volume	400 Cu. Ft.	11,33 M ³
POWER PLANT		
Type	Diesel Engine, (Liquid Cooled) Fully Enclosed	
Power Output (Net, Cont.)	65 HP @ 2400 RPM	48 kW @ 2400 RPM
Fuel Capacity	50 US Gallons	94 Liters
Electric System	12 Volt DC Circuit, Includes Electric Engine Start & Monitoring Gauge Package	
HYDRAULIC SYSTEM		
Pump	Two (2) Variable Displacement Piston Unit	
Controls	Manually Controlled, Variable Volume Valve Bank	
Hydraulic Tank Capacity	65 US Gallons	244 Liters
Filtration	10 Micron Return Filtration System	
PROPULSION		
Type –Two	Hydraulically Powered, Bi-Directional Variable Speed Bronze Propellers	
Drive Unit	(2) Variable Speed, Independently Controlled Hydraulic Wheel Motors	
Deployment	Hydraulically Over Stern Includes Power Lift	
All dimensions & weights are net, not including options. Specifications subject to change without notice.		

* Can be knocked down to 6'-6" (1,98 M) for overseas shipping.



PARTS LIST

ITEM QTY	DESCRIPTION
1 1	HULL (TWIN HULL)
2 1	CONVEYOR FRONT
3 1	CONVEYOR STORAGE
4 1	SUN/RAIN ROOF
5 2	WING ADJUSTABLE
6 1	LIFT CRANE HEAD
7 1	CONTROL BRIDGE
8 1	DIESEL FUEL TANK
9 1	HYD FLUID TANK
10 2	DRIVE UNIT HYD
11 8	HYD CYLINDER
12 1	BELTING FRONT CONV
13 1	BELTING STORAGE CONV
14 1	AR FLIGHTS CONVEYER
15 1	DIESEL ENG w/ENC
16 1	AR IRON SLIP STRIPS



**ALPHA
BOATS
UNLIMITED, INC**
WETSPORT, N.Y.

MC-402 TWIN HULL

GENERAL ARRANGEMENT

DES	DATE	REV
DATE	BY	CHK

DAMC402



Alpha Boats Unlimited

div. of Barber Welding, Inc.

- Trash & Debris Skimmers ● Aquatic Harvesters ● Crane Boats ● Dredges ● Oil Skimmers ●

SPECIFICATIONS FOR TRASH/DEBRIS SKIMMER “MARINA CLEANER” PONTOON VERSION MODEL MC-402

Introduction

The specifications below are for a response skimmer boat capable of retrieving floating debris and trash. Therefore the boat is equipped with trash collection, storage and discharging system.

Driving the boat with its skimmer head intake submerged into the materials performs the skimming operations. The forward motion of the boat as well as the inward travel of the skimmer head conveyor belts will deposit the recovered trash debris, and other various floating materials into the conveyORIZED storage hold. When the depth of the trash stack on the storage conveyor hold reaches its maximum height, the conveyor is advanced rearward to make room for the next stack. This procedure is repeated until the storage hold is filled. Once the storage conveyor is filled, the skimmer head is raised and the boat travels to shore to interlock with a shore or pier loading conveyor. The boat mounted storage conveyor reverses and becomes the discharge conveyor. This unique storage conveyor patent distinguishes the Alpha Boats Marina Cleaner over the prior art of trash/debris skimmer vessels. (Patent App.. 10/949,865 – 9/24/2004)

The shore/pier conveyor units can then transfer the trash in unison into a waiting truck or dumpster for further disposal.

The boat is highly maneuverable by means of a dual thrust system and is equipped with power per specifications to perform all skimming, loading, unloading propulsion and navigational functions. All operations and functions are controlled from an open operator's platform centered port to starboard on the upper deck.

The entire boat, its superstructure and attachments can be folded, stored or collapsed into a single road transportable package without major disassembly.

MC-402 Pontoon

1.0 General

1.1 The overall dimensions of the boat are as follows:

Length:	Shipping	40' - 0" (11,16 m)
	Operating	40' - 0" (11,16 m)
Width:	Shipping	12' - 0" (3,72 m)
	Operating (Standard)	12' - 0" (3,72 m)
Height:	Shipping	9' - 6" (2,93 m)
	Operating	11' - 3" (3,44 m)

The operating height does not include any options, i.e. cab, spud anchors, antennas, or added lighting options.

All dimensions, weights are net, not including options. Shipping height can be knocked down for export, consult factory.

1.2 The basic shipping weight of the skimmer boat is 15,900 lbs (6,875 kg) dry, without options.

2.0 Vessel

2.1 The vessel is constructed of a steel (stainless steel optional) twin hull with multiple compartments and a deck with all fixtures and fittings to safely attach the superstructure and propulsion units. The hull sides are rib formed for rigidity. All sides, deck and bottom are reinforced with inner frame works. The pontoon bottom is double reinforced for additional strength and exterior protection.

2.2 The catamaran type vessel has 4 sealed compartments per pontoon with individual inspection ports (total of 8).

2.3 The hull material thickness is as follows:

Main Hull	12 & 14 GA (2,65 and 1,90mm)
Bow & Stern	7 GA (4,54 mm)
Deck	14 GA (1,90 mm)

2.4 The deck is finished with anti-skid material in the personnel passage areas.

2.6 The overall pontoon dimensions are:

Length	32' - 0" (9,60 m)
Width	2' - 10-3/4" (0,64 m)
Height	2' - 10-7/8" (0,65 m)

The height does not include any skids, gunwales or deck attachments.

MC-402 Pontoon

3.0 Power Plant

- 3.1 The power plant is based on a 67.7 HP (48 kw) Yanmar Diesel liquid-cooled fully enclosed engine. The horsepower is based on a net continuous rating at 2500 RPM includes Electric Engine Start and Monitoring Gauge Package.
- 3.2 The diesel engine drives direct-mounted hydraulic pumps, which transmit power to all functions on the boat.
- 3.3 The diesel engine is mounted to a base frame – isolated by vibration mounts – on the port side of the boat.
- 3.4 The engine is equipped with a 12 volt D.C. electric system supported by a heavy-duty deep cycle, marine battery.
- 3.5 The power plant is housed in an engine enclosure constructed of aluminum. The enclosure is equipped with two access doors and is lockable to protect against vandalism and theft during non-operating periods.
- 3.6 The engine is remote controlled and monitored from the Control Bridge.

4.0 Control Bridge

- 4.1 The standard control bridge is an open area located mid ships, forward on the upper deck with a vinyl covered, back supported ergonomic cushioned seat mounted with sliding adjustment and ample room for performing operations.
- 4.2 Basic Option Package
The Control Bridge can be furnished with a cab which comes with aluminum construction insulated (interior surfaces are upholstered with sound absorbing vinyl covered acoustical foam), front window equipped with a window wiper, two (2) sliding side windows, rear lockable door, fan and window wiper. A dome light illuminates the interior of the cab.
- 4.3 As an additional option to 4.2 (Basic Option) an air horn, remotely controlled search light and a fold down VHF antenna mounted to the roof of the cab can also be provided along with heater or air conditioner.
- 4.4 A two and one-half pound (2.5 lb) A.B.S. fire extinguisher is mounted on the bridge side of the ladder.

MC-402 Pontoon

4.5 All engine and hydraulic controls are in operators view on the control bridge. The console contains the engine and hydraulic systems monitoring gauges including:

- ◆ tachometer
- ◆ hour - meter
- ◆ engine oil pressure
- ◆ engine temperature gauge
- ◆ hydraulic system pressure gauges
- ◆ volt meter gauge (optional)

Engine start and stop switch, warning lights and throttle control are also mounted in this console. All engine gauges can be illuminated as an option.

All hydraulic controls are mounted within comfortable reach of the operator. Symbols and/or labels identify all control and gauges.

4.6 Railings are provided on both side of the deck area for personnel protection.

5.0 Hydraulic System

5.1 The skimmer boat is outfitted with two hydraulic systems sharing one hydraulic reservoir.

5.2 The hydraulic pumps are housed in the engine aluminum enclosure for safety and added noise reduction.

5.3 The first hydraulic system is committed to the boat's twin hydraulic propellers. It includes a pressure and flow compensated variable volume piston pump, a pressure compensated dual, pilot operated hydraulic directional valve, pilot control valves and suction and return flow filtration. The controls of the propellers are fully independent of each other. This system allows for the two bi-directional propellers to be run at infinitely variable speeds from zero to maximum RPM (per pump and hydraulic pressure specifications) with fingertip controls.

5.4 The second hydraulic system supplies power to all functions for the purpose of trash recovery, storage and discharge.

MC-402 Pontoon

The functions include:

- a. All cylinder actuation, i.e.:
 1. Trash skimmer wings/delivery booms
 2. Skimmer head lift
 3. Discharge conveyor lift
 4. Propulsion unit lifts
 5. Options

- b. All hydraulic conveyor motor drives, i.e.
 1. Front conveyor drives
 2. Wing drives
 3. Storage conveyor drive
 4. Options

The secondary hydraulic system is comprised of pressure and flow compensated pump, a load sensed directly actuated hydraulic directional valve assembly and appropriate filtration.

- 5.5 The hydraulic reservoir has a capacity of 65 gallons (U.S.) (246 liters). In a standard trash skimmer the hydraulic tank is mounted in a lockable hydraulic room on the starboard side of the boat – directly opposite the engine room. The hydraulic reservoir is equipped with the following components:
 1. Clean-out lid.
 2. Level gauge
 3. Temperature gauge
 4. Drain
 5. Suction Strainer (100 mesh)
 6. Return Filter (10 Micron)

- 5.6 Both hydraulic circuits are protected by pressure overrides. The propeller motors each are protected by cross over cushion (relief) valves.

- 5.7 All hydraulic pipes are stainless steel. The propulsion units, hydraulic lines, fittings and adapters are of standard steel with cadium (corrosion resistant coating). Stainless Steel hydraulic pipes, lines, fittings and adapters are stainless steel for the salt-water version. The balance of the hydraulic lines are of standard material but are available in various levels of stainless steel materials pending customer specifications and requirements.

MS-402 Pontoon

6.0 Fuel System

- 6.1 Diesel fuel system is comprised of a single steel tank mounted on the control deck behind the seat with a lockable filler breather, suction and return lines, fuel level sending unit with a drain.
- 6.2 The fuel tank has a capacity of 50 US Gallons (94 Liters). A larger tank is available as an option.

7.0 Propulsion System

- 7.1 The propulsion system consists of two bi-directional propellers. These propellers are hydraulically driven, independently controlled for direction and infinite variable speed from zero to maximum RPM.
- 7.2 The propulsion units are deployed with "over stern" mounting arms and are equipped with a hydraulic power lift and manual tilt system.
- 7.3 The propeller motor mounting arms as well as its hydraulic drop lines, fittings, and adapters are standard supplied in standard steel with cadium (corrosion resistant coating). Stainless Steel hydraulic pipes, lines, fittings and adapters are stainless steel for the salt-water version. The balance of the hydraulic lines are of standard material but are available in various levels of stainless steel materials pending customer specifications and requirements.
- 7.4 Steering and maneuvering of the boat is accomplished by independently varying propeller speeds, as well as directions in unison or opposed to each other. Therefore, the boat is very maneuverable and can turn on its own radius.
- 7.5 The propellers are rotated in opposing directions when the boat is forward driven. Therefore the boat is equipped with one "left-hand" and one "right-hand" propeller. The standard propellers are three blade versions with a diameter of 16" (45.5 cm) and are made of bronze.
- 7.6 The propellers are directly mounted to stainless steel shafts. Shaft output horsepower is 25 HP (18.7 kW) each. Higher shaft outputs are available options.

MC-402 Pontoon

8.0 Skimmer Head

- 8.1 The skimmer head is the “recovery system” of the skimmer boat. It consists of a head lift frame, a front conveyor and two side skimmer wings or delivery booms.
- 8.2 The lift frame is a welded steel structure of sufficient strength to lower and raise the intake portion of the skimmer head into and out of the water. The average working depth of the skimmer head is 18” (46 cm), but it can be lowered to 24” (64cm) for occasional recovery of large objects. The skimmer head is equipped with a front conveyor discharge positioning system for placing large recovered objects from the front conveyor into the storage hold.
- 8.3 The front conveyor is a steel (stainless steel for salt-water versions) structure, providing belt tracks for the conveyor belts and sidewalls with an intake frame, which holds one side skimmer wing (delivery boom) on each side.
- 8.4 The belt tracks are lined with UHMW plastic wear strips to protect against belt wear. The conveyor belt is a heavy duty flat wire mesh belt (1” x 1” square openings, ½” high, .062 float wire thickness, gauge 6 connecting rods, 1,400 lbs./ft. of width tensile strength) made of stainless steel. Attached to the belts are conveyor cleats (flights) to avoid “roll back” of cylindrical objects during skimming operations.
- 8.5 A sprocket tubular shaft powered via a high torque hydraulic motor, connected to each other by a flexible coupling drives the belt.
- 8.6 Belt adjustment is accomplished by means of a parallel tensioning frame at the drive end of the conveyor system for easy access. The idler shaft remains in a fixed position, running underwater during skimming operations.

MC-402 Pontoon

- 8.7 The skimmer wings are flexible angular extensions to the intake width of the front conveyor. When fully opened the skimmer head has an operating width of 10 feet (3.05 m). The skimmer wings are articulated independently by two hydraulic cylinders and when fully closed form a "point" forward of the front conveyor, functioning like a pair of tongues. This facilitates the entrapment of illusive trash in tight quarts, around other boats, docks and near piers.

The standard skimmer wings are equipped with stainless mesh belts and drives to enhance lateral transfer of floating objects towards the front conveyor intake and inclining belt. A vertical in-feed drive at the front tip, as well as protective "bump wheels" on the front-outside are provided.

This type of wing conveyor frame is equipped with a hydraulic belt drive motor, flexible coupling, bearings, drive shaft, idler shaft, a tensioning devise and UHMW plastic wear strips on all belt tracks and guides.

9.0 Storage Conveyor

- 9.1 The storage conveyor system consists of two sections: (a) the front conveyor section which is part of the skimmer head and (b) the rear or main conveyor frame.
- 9.2 The storage conveyor system is equipped with the same type of conveyor belts, drives, hydraulic motors and UHMW wear strips, and belt tensioning system as described in Section 8.
- 9.3 The top layer of the storage conveyor belt is supported by rib formed metal floor sections which again hold the wear strips. These floors are bolted into the conveyor frame to avoid corrosion between otherwise overlapped welds, and for easier repairs, if required.
- 9.4 The main conveyor frame moves forward and backwards during loading and unloading by means of a hydraulic cylinder.
- 9.5 The front and main conveyor frames have a separate conveyor belting system.
- 9.6 The maximum trash load capacity in the storage conveyor hold is: 7,000 lb. (3175 kg) by weight or 400 ft (11,33 M³) by volume. This load can be discharged in 60 to 90 seconds under normal conditions.

MC-402 Pontoon

10.0 Hydraulic Cylinders

- 10.1 All hydraulic cylinders are chrome plated cylinder extension rods. Stainless steel is available as an option.

11.0 Fasteners

- 11.1 All standard fasteners, i.e. nuts, bolts, screws, washers, pins, etc., are made of 300 Series stainless steel.

12.0 Protective Finish

- 12.1 All metal parts of the boat, super-structure, propulsion units and skimmer head are coated with a protective finish.

- 12.2 The standard color combination of the harvester is as follows:

Pontoon	Safety Blue	} <i>or Customer specifications</i>
Storage Conveyor	Safety Orange	
Skimmer Head	Safety Orange	
Propulsion Units	White	
Deck	Orange	<i>- or Customer specifications</i>
Railings	Aluminum (Non-Coated)	
Engine Cover	Aluminum (Non-Coated)	

- 12.3 All steel surfaces are being sandblasted prior to coating. Sandblasting of the hull and skimmer head is in accordance with SSPC-5 white metal blast cleaning.
- 12.4 The coating system consists of a two-part epoxy primer, a two-part epoxy finish coat over the hull, skimmer head, and propulsion units and a urethane enamel topcoat over the balance of the equipment. All coatings are to a uniform thickness completely covering all corners and crevices. An anti-foul coat on the hull below the maximum water line is available as an option.

MC-402 Pontoon

13.0 Safety Equipment

13.1 This includes:

- 1 each 2 ½ pound ABS Fire Extinguisher
- 1 each Adult-size U.S. Coast Guard approved life vest.
- 1 each Life ring and 50 feet of rope

13.2 Warning labels are mounted in all areas where caution and care must be observed.

14.0 Miscellaneous Standard Accessories

- 14.1 Operators Manual
- 14.2 Training
- 14.3 Warranty – per company statement
- 14.4 Standard Tool Kit
- 14.5 Standard Spare Parts Package



Alpha Boats Unlimited

- Trash & Debris Skimmers
- Aquatic Harvesters
- Crane Boats
- Dredges
- Oil Skimmers

TLT - SERIES TRAILER **SUPPORT EQUIPMENT - TILT-DECK TRAILERS**



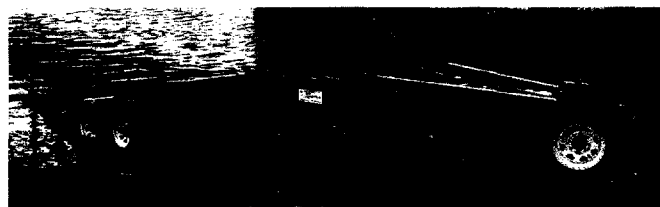
Heavy and medium duty Tilt-Deck Trailers for easy mobilization of all Alpha Water Management Boats



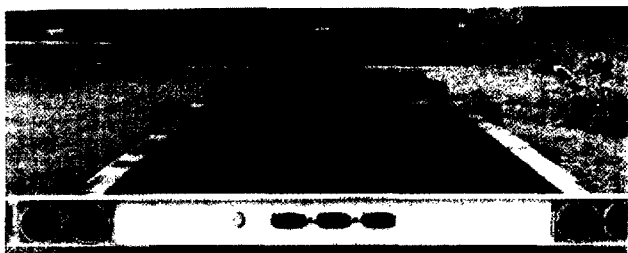
Single axle and tandem axles with dual wheels and oil bath



- Tandem axles with single wheels & "EZ"-Lube
- Easy running gear service with tilt mechanism



- Trailer makes its own "Ramp"
- Axles stay out of the water

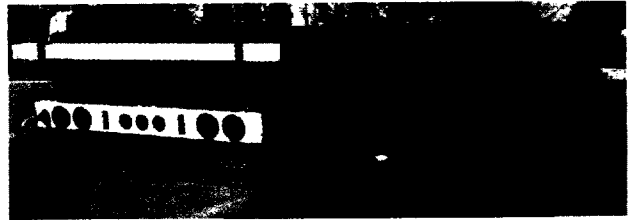
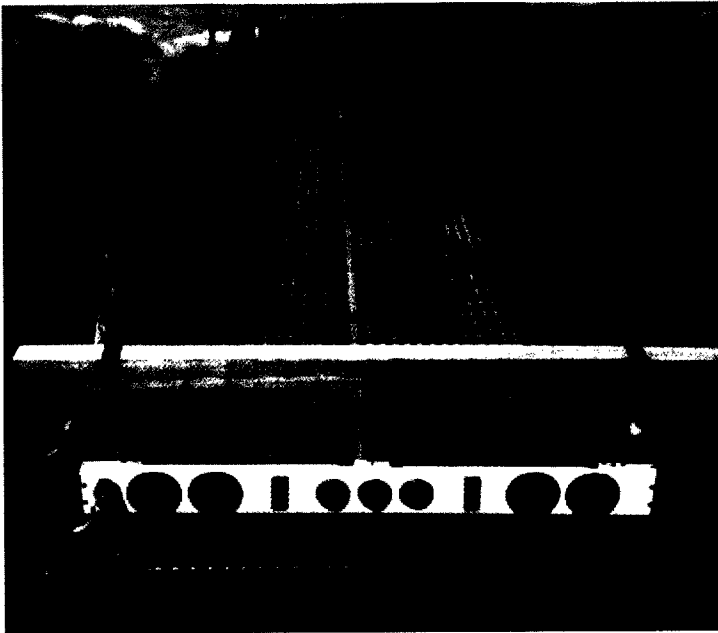


- "Catwalk" with safety grating
- Light bar, removable during launching

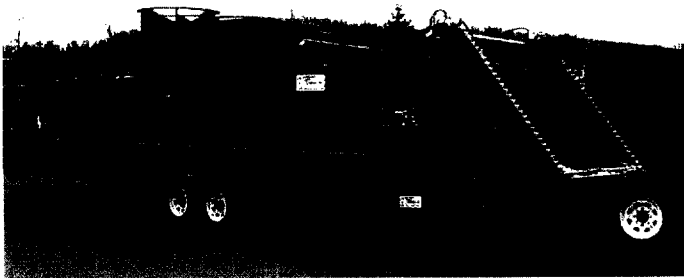
TLT TRAILERS ARE BUILT WITH:

- Strong structural steel frames
- Heavy duty jack & safety chains
- Pintle or ball hitches (fifth wheel available)
- Heavy duty running gear
- Brakes: electric, hydraulic or air
- Hydraulic winch
- Built-in or portable power pack
- Barge skid guides & tie downs

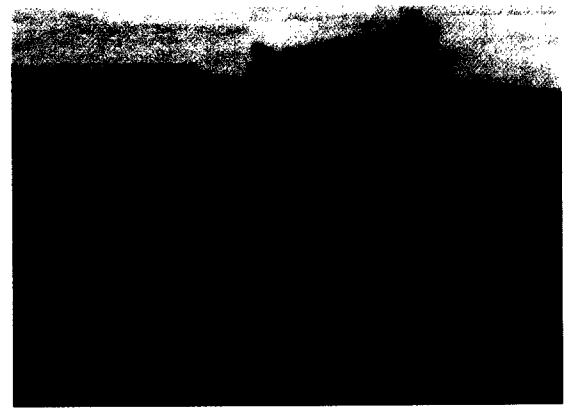
TLT Trailers available for all makes of Aquatic Harvesters, Trash Skimmers and Barges



Alpha combination Trailer-Conveyors for Harvester or Trash Skimmer mobilization as well as weed and trash disposal.



Alpha Water Management Boats make a compact package on the TLT-Trailer for safe and easy road transport.



Three-way Dump Trailers - maximum flexibility for weed and trash disposal and many other applications.

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- Trash & Debris Skimmers ● Aquatic Harvesters ● Crane Boats ● Dredges ● Oil Skimmers ●

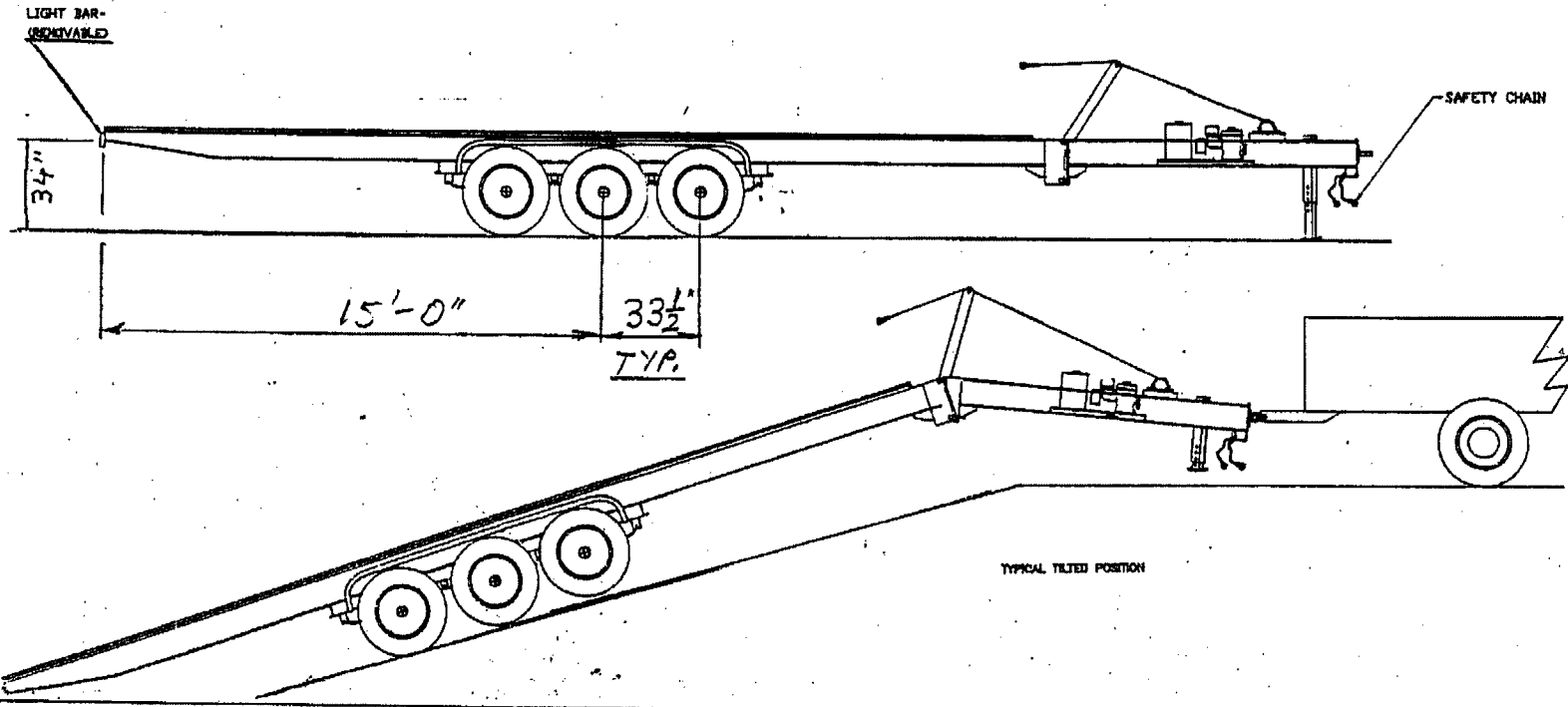
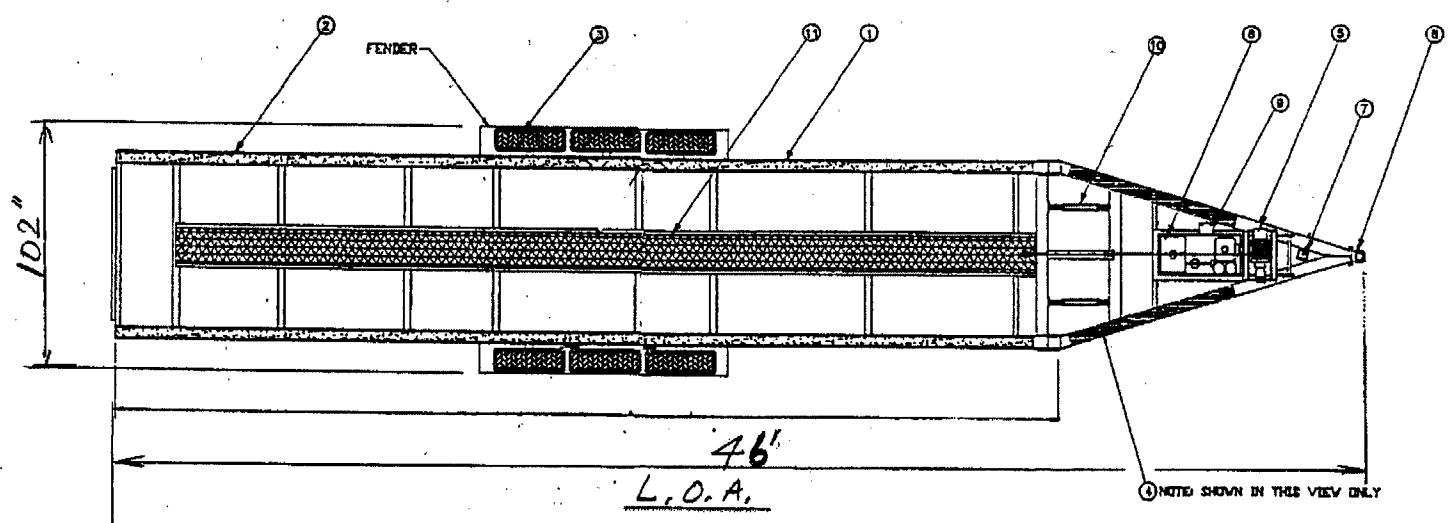
SPECIFICATIONS

TRAILER MODEL TLT-400-E (For Use With Marina Cleaner MC-402)

- | | |
|--|--|
| 1. DIMENSIONS | Overall Length 46'
Width 8' -6"
Height to Trailer Deck 2' - 10" |
| 2. TRAILER WEIGHT | 5,320 pds. |
| 3. TONGUE WEIGHT | 900 pds (empty)
2,000 pds (max) |
| 4. GVWR | 21,000 lbs |
| 5. AXLES | 3 @ 7000 lbs capacity each |
| 6. WHEEL BEARING | Easy Lube |
| 7. TIRE SIZE | 235/85R16G865 |
| 8. RIM BOLT CIRCLE | 8 on 6 ½ inches |
| 9. BRAKES | Electric |
| 10. LIGHTING | DOT legal, electric with sealed lenses and detachable light bar. |
| 11. HITCH | 3" pintle eye |
| 12. JACK STAND CAPACITY | 12,000 lbs with drop leg |
| 13. TRAILER FRAME MATERIAL | Steel |
| 14. FINISH | Macro Epoxy Primer with Acrlin 218
Immersion Topcoat |
| 15. COLOR | Black |
| 16. WINCH | Hydraulic, 12,000 plus sheave pull capacity |
| 17. WINCH CABLE
(Diameter x Length) | 3/8 x 100 |
| 18. POWER SOURCE | Built In - 15 hp Kohler, Air Cooled Engine,
Hydraulic Power Pack, Electric Start. |

2517 State Rt 31 • P.O. Box 690 • Weedsport, NY 13166
Toll Free 1-877-627-3084 • Phone (315) 834-6648 • Fax (315) 834-6045
E-Mail: hbc@tds.net • Website: www.alphaboats.com

PARTS LIST			
QTY	DESCRIPTION	UNIT	
1	1	TRAILER FRAME	
2	2	SOO GUIDE W/PLASTIC	
3	2	ANGLE W/SINGLE	
4	2	HARV. HEAD REST	
5	1	HORN	
6	1	POWER PACK (OPTIONAL)	
7	1	POWER JACK	
8	1	TOWING EYE	
9	2	H/O CONTROLS	
10	2	H/O CYLINDER	
11	1	YARD STRUT WALKWAY	



ALPHA BOATS
TLT-400-E
 TILT & LOAD TRAILERS
 FOR HARVESTER & SKIDDER BOATS.

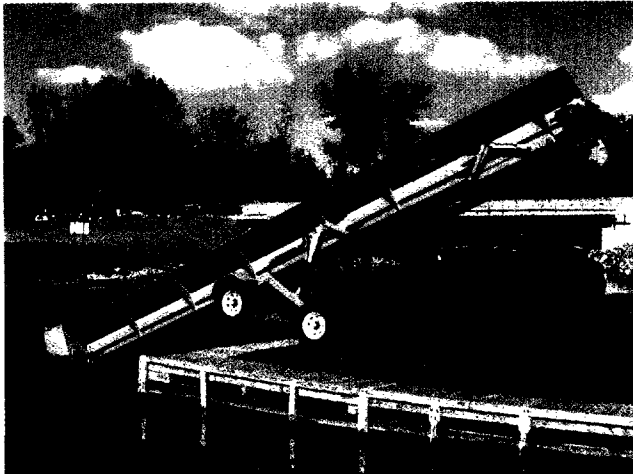
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AV	11/2/2006		
WFE			
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Alpha Boats Unlimited

• *Trash & Debris Skimmers* • *Aquatic Harvesters* • *Crane Boats* • *Dredges* • *Oil Skimmers*

PC – SERIES PIER CONVEYORS

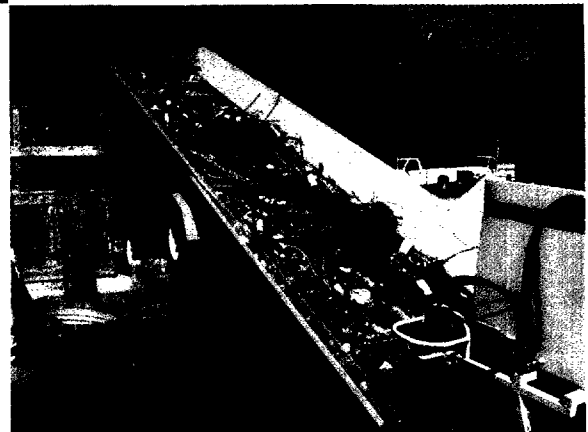


**Hydraulic Power Lift
Fold Back Draw Bar
Balancing Pontoon
And Hydraulic Safety Locks
Length from 30' – 0" to 40' – 0"
(9,15 to 12,4 M)**

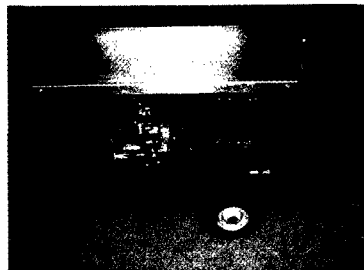


**Stainless Steel Belting
Flights
And
Nylatron Wear Strips**

**Load
Transfer
In
1 – 2
Minutes**



**Power Pack
Built-In or Portable
Designed
For
Multiple Functions**



**Alpha Pier Conveyor Compatible To "ALL" Makes of Aquatic Harvester,
Transport Barges and Trash/Debris Skimmers**

2517 State Route 31 West – PO Box 690 – Weedsport, NY 13166

Toll Free – 1-877-627-3084 ♦ Tel: 315-834-6648 ♦ Fax: 315-834-6045

Website: www.alphaboats.com

email: info@alphaboats.com



Alpha Boats Unlimited

div. of Barber Welding, Inc.

2517 State Rt 31 • P.O. Box 690 • Weedsport, NY 13166
Toll Free 1-877-627-3084 • Phone (315) 834-6648 • Fax (315) 834-6045

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- Trash & Debris Skimmers • Aquatic Harvesters • Crane Boats • Dredges • Oil Skimmers •

LONG FORM SPECIFICATION PIER CONVEYOR MODEL PC-6036E

SCOPE

Pier conveyor serves as an unloading link between land and water of material collected and stored in the trash/debris skimmer vessel. A pier conveyor shall be supplied which is compatible with to the Marina Cleaner Model MC-402. The pier conveyor shall offload from the Marina Cleaner at low and all other tidal conditions to trucks or standard 20 cubic yard containers on shore.

In addition, compliance to all applicable Federal, State and local laws, codes, rules and regulations including ANSI and OSHA as required. No prototypes are allowed.

GENERAL

Dimensions:

Shipping Length: 46 feet – 6 inches
Shipping Width: 8 feet – 4 inches
Shipping Height: 5 feet

Towing Length: 51 feet
Towing Width: 8 feet – 4 inches
Towing Height: 5 feet

Shipping Weight: 10,000 pounds

Maximum Discharge
Height Above Intake
at Water Level 19 feet

Conveying System:

Drive Unit: Driven by means of two hydraulic orbit motors, each with displacement of minimum of 22.8 cubic inches per revolution. Drive shaft shall be tube type with sprocket teeth and shall provide full width support for belting. Stub shaft ends to be stainless steel. Idler shaft shall be tube type with sprocket teeth for proper alignment. Stub shaft ends to be stainless steel. Under water conveyor bearing shall be stainless steel, sealed, flange type with remote grease fittings. Belt adjustment shall be by means of stainless adjustment screws and stainless steel nuts.

Conveying System (continued)

Bed Length: 43 Feet
Bed Width: 5 Feet – 2 inches
Belting 1 x 1 Heavy Duty Stainless Steel Belting to consist of 2 – 30 inch wide rows
Flight Clips: Stainless Steel Bolt On with maximum 5 feet apart and 4 bolts per flight
Belt skid To be UHMW plastic with minimum of 8 on top side and 4 on bottom side of conveyor. Minimum of 42 feet long per belt skid.
Flared Hopper Width: 9 Feet 4 inches - minimum

Running Gear:

Road Axle Capacity: Easy Lube. - Shall be supplied with three axles with two (2) each wheels and tires. The two rear axles (for transporting) shall have 6,000 lbs rating with fenders, springs and 12 volt DC electric brakes. The front axle (pier/land stationary) shall have 8,000 lbs rating. Included shall be safety chains, hooks, screw jack and removable light bar for towing. The drawbar shall be fitted with a height adjustable pintle hitch of 2 -1/2 inches diameter. The screw jack shall be rated at 6,000 lbs. minimum. Removable 12 volt light bar with running lights, turn signals, stop light and side clearance lights. It shall be connected to the trailer electric system by means of quick connector plug. The trailer electric system shall be connected to the tow vehicle electric system by means of a quick connector plug. The under carriage shall be designed to allow deployment off piers or docks up to twelve (12) feet above water level.

Tires: Must meet or exceed towing axle rating.

Lift Frame: Hydraulically powered lift frame with cylinders, safety valves and ground pads.

The lift frame shall be hydraulically operated to raise and lower the discharge height to compensate for variable heights, or land levels. Lift shall be accomplished by (2) two double acting hydraulic cylinders with four (4) inch bores and ball type safety valves.

Drawbar: A single drawbar shall be mounted on the discharge end. The drawbar shall be mounted on a frame, used for towing and for job site positioning. It shall swing back when the conveyor is elevated into operating position. Deployment by means of two (2) double acting hydraulic cylinders. This frame shall allow the conveyor to be tilted while attached to the tow vehicle as it is being positioned over a pier or seawall.

Controls: Manual hydraulic valve with (2) two spring returns to center and (1) one lever detented

Power Pack:

Type: Portable with handles for easy maneuverability with maximum weight of 265 lbs.
Engine: 20 Hp. Twin Cylinders, Gasoline, Kohler, Air Cooled Electric Start
Hydraulics: Self contained
Battery: 12 volt

Flotation:

Stainless steel tanks shall be watertight with 2 inch inspection ports on top of flotation tank and 1 inch drain on rear lower back corner. Watertight compartment shall be fully welded and sealed. Stiffeners shall be provided as necessary to prevent bulging of formed skins. Minimum of two baffles per flotation tank. Tank material to be minimum of 12 gauge.

Tie Downs:

Six (6) D-rings shall be provided for means of securing conveyor to pier/seawall.
Securing material to be provided by end user.

Anodes:

Two (2) zinc anodes each shall be fitted to reduce damage caused by electrolysis on the flotation tank and two (2) on the conveyor frame.

Interlock System:

To stabilize and reduce the possibility of spills during the unloading process.

Color:

Alpha Boats Unlimited paint colors of Safety Orange with Safety Blue

Material:

Pier conveyor frame shall consist of structural steel. Sheet metal to be minimum of 12 gauge. Flared hopper to be minimum of 12 gauge. Below flared hopper metal to be 7 gauge minimum for necessary support. Below water level – fasteners shall be stainless steel.

Finish:

Immersion epoxy coating after sandblast finish.

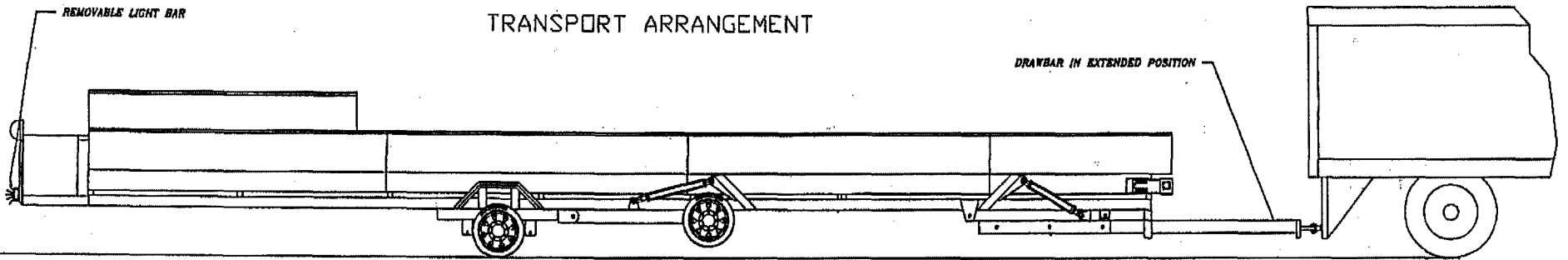
Miscellaneous:

(1) One set of operators manual to be provided.
(1) Spare parts package

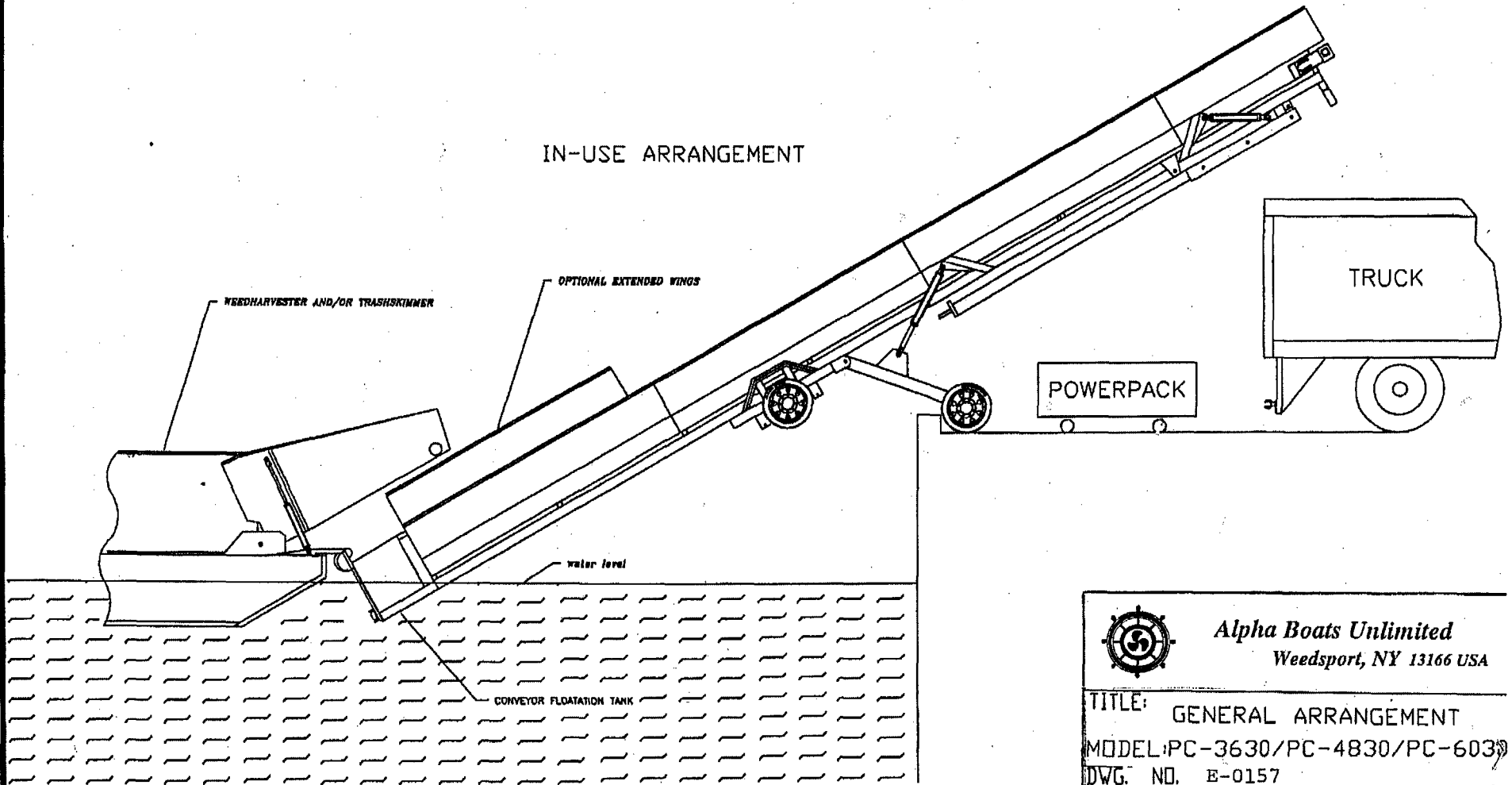
Training:

(1) One (8) eight hours of operations and maintenance training to be provided by company training technician.

TRANSPORT ARRANGEMENT



IN-USE ARRANGEMENT



Alpha Boats Unlimited
Weedsport, NY 13166 USA

TITLE: GENERAL ARRANGEMENT
MODEL: PC-3630/PC-4830/PC-6030
DWG. NO. E-0157

Primer

202



**Industrial
and
Marine
Coatings**

4.67

**DURA-PLATE® 235
MULTI-PURPOSE EPOXY**

**PART A B67-235
PART B B67V235**

**SERIES COLORS
HARDENER**

PRODUCT INFORMATION

Revised 1/2002

PRODUCT DESCRIPTION		RECOMMENDED USES																																												
<p>Dura-Plate 235 Multi-Purpose Epoxy is a modified epoxy phenalkamine, formulated specifically for immersion and atmospheric service in marine and industrial environments. Dura-Plate 235 provides exceptional performance in corrosive environment, and can be applied at temperatures as low as 0°F.</p> <ul style="list-style-type: none"> • Self-priming • Suitable for use in USDA inspected facilities • Low temperature application • Surface tolerant - damp surfaces • Provides salt water and fresh water immersion resistance • Cures at temperatures as low as 0°F • Approved as a primer under MIL-P-23236, Type IV, Class 2, Grade B 		<p>For use over prepared steel and masonry surfaces.</p> <ul style="list-style-type: none"> • Salt water and fresh water immersion resistance • Ballast tanks • Offshore and marine structures • Bilges and wet void areas • Above- and below- water, hull areas • Decks and superstructures • Fabrication and new construction • Water and waste water tanks • Acceptable for use with cathodic protection systems. • Water and waste water treatment facilities <p>Note: Not for immersion service when tinted.</p>																																												
PRODUCT CHARACTERISTICS		PERFORMANCE CHARACTERISTICS																																												
<p>Finish: Semi-Gloss</p> <p>Color: Buff, Black, Haze Gray, Red Oxide, Mill White, and a wide range of colors available</p> <p>Volume Solids: 68% ± 2%, mixed Ultra White</p> <p>Weight Solids: 79% ± 2%, mixed Ultra White</p> <p>VOC (EPA Method 24): Unreduced: 272 g/L; 2.3 lb/gal Reduced 10%: 327 g/L; 2.72 lb/gal</p> <p>Mix Ratio: 4:1 by volume</p> <p>Recommended Spreading Rate per coat:</p> <ul style="list-style-type: none"> Wet mils: 6.0 - 12.0 Dry mils: 4.0 - 8.0 Coverage: 136 - 272 sq ft/gal approximate <p>NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.</p> <p>Drying Schedule @ 6.0 mils wet @ 50% RH:</p> <table border="1"> <tr> <td></td> <td>@ 0°F</td> <td>@ 40°F</td> <td>@ 77°F</td> <td>@ 120°F</td> </tr> <tr> <td>To touch:</td> <td>18 hours</td> <td>3½ hours</td> <td>2 hours</td> <td>20 minutes</td> </tr> <tr> <td>To handle:</td> <td>36 hours</td> <td>12 hours</td> <td>3½ hours</td> <td>40 minutes</td> </tr> <tr> <td>To recoat:</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>minimum:</td> <td>36 hours</td> <td>12 hours</td> <td>3½ hours</td> <td>40 minutes</td> </tr> <tr> <td>maximum:</td> <td>6 months</td> <td>6 months</td> <td>6 months</td> <td>6 months</td> </tr> <tr> <td>Cure to service:</td> <td>30 days</td> <td>14 days</td> <td>7 days</td> <td>3 days</td> </tr> <tr> <td>Pot Life:</td> <td>18 hours</td> <td>8 hours</td> <td>4 hours</td> <td>1 hour</td> </tr> <tr> <td>Sweat-in-time:</td> <td>1 hour</td> <td>30 mins</td> <td>15 minutes</td> <td>5 minutes</td> </tr> </table> <p>If maximum recoat times exceeded, abrade surface before recoating. Drying time is temperature, humidity and film thickness dependent.</p> <p>Shelf Life: 36 months, unopened, at 77°F</p> <p>Flash Point: 116°F PMCC</p> <p>Reducer/Clean Up: Reducer R7K104</p>		@ 0°F	@ 40°F	@ 77°F	@ 120°F	To touch:	18 hours	3½ hours	2 hours	20 minutes	To handle:	36 hours	12 hours	3½ hours	40 minutes	To recoat:					minimum:	36 hours	12 hours	3½ hours	40 minutes	maximum:	6 months	6 months	6 months	6 months	Cure to service:	30 days	14 days	7 days	3 days	Pot Life:	18 hours	8 hours	4 hours	1 hour	Sweat-in-time:	1 hour	30 mins	15 minutes	5 minutes	<p>System Tested: (unless otherwise indicated) Substrate: Steel Surface Preparation: SSPC-SP10 2 cts. Dura-Plate 235 @ 5.0 mils dft/ct</p> <p>Abrasion Resistance: Method: ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load Result: 65 mg loss</p> <p>Adhesion: Method: ASTM D4541 Result: 850 psi</p> <p>Direct Impact Resistance: Method: ASTM D2794 Result: 10 in lb</p> <p>Dry Heat Resistance: Method: ASTM D2485 Result: 250°F</p> <p>Moisture Condensation Resistance: Method: ASTM D4585, 100°F, 2000 hours Result: Rating 10 per ASTM D610 for rusting Rating 10 per ASTM D714 for blistering</p> <p>Pencil Hardness: Method: ASTM D3363 Result: H</p> <p>IMMERSION (Ambient temperature)</p> <ul style="list-style-type: none"> • Salt Water Recommended • Fresh Water Recommended • Ballast Tank Mix Recommended <p>Epoxy coatings may darken or yellow following application and curing.</p>
	@ 0°F	@ 40°F	@ 77°F	@ 120°F																																										
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600

*COG
234
8hr
8hr*



*Industrial
and
Marine
Coatings*

4.67

DURA-PLATE® 235 MULTI-PURPOSE EPOXY

PART A
PART B

B67-235
B67V235

SERIES COLORS
HARDENER

PRODUCT INFORMATION

RECOMMENDED SYSTEMS	SURFACE PREPARATION
<p>Steel, immersion or atmospheric service: 2 cts. Dura-Plate 235 @ 4.0 - 8.0 mils dft/ct</p> <p>Steel, immersion service: 1 ct. Dura-Plate 235 @ 4.0 - 8.0 mils dft 1-2 cts. Dura-Plate UHS @ 10.0 - 12.0 mils dft/ct</p> <p>Steel, immersion service: 1 ct. Dura-Plate 235 @ 4.0 - 8.0 mils dft 1-2 cts. TarGuard Coat Tar Epoxy @ 8.0 - 16.0 mils dft/ct</p> <p>Steel, immersion service: 2 cts. Dura-Plate 235 @ 4.0 - 8.0 mils dft 2 cts. SeaGuard Anti-Foulant (refer to respective data pages for coverage)</p>	<p>Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure good adhesion. Refer to product Application Bulletin for detailed surface preparation information. Minimum recommended surface preparation:</p> <p>Iron & Steel: Atmospheric: SSPC-SP2 or SSPC-SP12/NACE No. 5, WJ-3/SC-2 Immersion: SSPC-SP10, 2 mil profile or SSPC-SP-12/NACE No. 5, WJ-2/SC-2</p> <p>Concrete & Masonry: Atmospheric: SSPC-SP13/NACE 6 Immersion: SSPC-SP13/NACE 6-4.3.1 or 4.3.2 Galvanized, atmospheric: SSPC-SP1</p>
<p>Steel, atmospheric service: 1 ct. Dura-Plate 235 @ 4.0 - 8.0 mils dft 1-2 cts. Macropoxy 646 @ 5.0 - 10.0 mils dft/ct</p> <p>Steel, atmospheric service: 1 ct. Zinc-Clad II HS @ 3.0 - 5.0 mils dft 1-2 cts. Dura-Plate 235 @ 4.0 - 8.0 mils dft/ct</p>	<p>COLOR AVAILABILITY/TINTING</p> <p>Tint with 844 Colorants only. Mill White tints at 150%. Ultra-deep Base tints at 100%. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.</p> <p>Note: Not for immersion service when tinted.</p> <p>Color: Buff, Black, Haze Gray, Red Oxide, Mill White, and a wide range of colors available</p>
<p>Steel, atmospheric service: 1 ct. Zinc-Clad IV @ 3.0 - 5.0 mils dft 1-2 cts. Dura-Plate 235 @ 4.0 - 8.0 mils dft/ct</p> <p>Steel, atmospheric service: 1 ct. Corothane I-GalvaPac Zinc Primer @ 3.0 - 4.0 mils dft 1-2 cts. Dura-Plate 235 @ 4.0 - 8.0 mils dft/ct</p> <p>Steel, atmospheric service: 1 ct. Dura-Plate 235 @ 4.0 - 8.0 mils dft 1-2 cts. Acrolon 218 HS @ 3.0 - 6.0 mils dft/ct or Hi-Solids Polyurethane @ 3.0 - 5.0 mils dft/ct</p>	<p>APPLICATION CONDITIONS</p> <p>Temperature: 0°F minimum, 120°F maximum (air and surface) At least 5°F above dew point Material should be at least 40°F for optimal performance.</p> <p>Relative humidity: 85% maximum</p> <p>Refer to product Application Bulletin for detailed application information.</p>
<p>Concrete/Masonry, immersion service: 1 ct. Kem Cati-Coat HS Epoxy Filler/Sealer @ 10 - 20 mils dft/ct, as required to fill voids and provide a continuous substrate 2 cts. Dura-Plate 235 @ 4.0 - 8.0 mils dft/ct</p>	<p>ORDERING INFORMATION</p> <p>Packaging: Part A: 1 gallon and 4 gallons in a 5 gallon container Part B: 1 quart and 1 gallon Weight per gallon: 11.3 ± 0.2 lb, mixed may vary with color</p>
<p>Galvanized, atmospheric service: 1 ct. Dura-Plate 235 @ 4.0 - 8.0 mils dft</p> <p>The systems listed above are representative of the product's use. Other systems may be appropriate.</p>	<p>SAFETY PRECAUTIONS</p> <p>Refer to the MSDS sheet before use.</p> <p>Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.</p>



*Industrial
and
Marine
Coatings*

4.67A

**DURA-PLATE® 235
MULTI-PURPOSE EPOXY**

**PART A
PART B**

**B67-235
B67V235**

**SERIES COLORS
HARDENER**

APPLICATION BULLETIN

Revised 1/2002

SURFACE PREPARATION	APPLICATION CONDITIONS		
<p>General Surface Preparation Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure good adhesion.</p> <p>Iron & Steel, Immersion Service: Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10 or SSPC-SP12/NACE No. 5. For SSPC-SP10, blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils). For SSPC-SP12/NACE No. 5, all surfaces to be coated shall be cleaned in accordance with WJ-2/SC-2 standards. Pre-existing profile should be approximately 2 mils. Light rust bloom is allowed. Remove all weld spatter and round all sharp edges by grinding to a minimum 1/4" radius. Prime any bare steel the same day as it is cleaned.</p> <p>Iron & Steel, Atmospheric Service: Minimum surface preparation is Hand Tool Clean per SSPC-SP2 or SSPC-SP12/NACE No. 5. For surfaces prepared by SSPC-SP2, first remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6, blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils). For surfaces prepared by SSPC-SP12/NACE No. 5, all surfaces shall be cleaned in accordance with WJ-3/SC-2. Pre-existing profile should be approximately 2 mils. Prime any bare steel the same day as it is cleaned.</p> <p>Galvanized Steel Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1 (recommended solvent is VM&P Naphtha). When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP7 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned.</p> <p>Concrete/Masonry, Atmospheric Service: New For surface preparation, refer to SSPC-SP13/NACE 6. Surface must be clean, dry, sound, and offer sufficient profile to achieve adequate adhesion. Minimum substrate cure is 28 days at 75°F. Remove all form release agents, curing compounds, salts, efflorescence, laitance, and other foreign matter by sandblasting, shotblasting, mechanical scarification, or suitable chemical means. Refer to ASTM D4260. Rinse thoroughly to achieve a final pH between 6.0 and 10.0. Allow to dry thoroughly prior to coating.</p> <p>Old Surface preparation is done in much the same manner as new concrete; however, if the concrete is contaminated with oils, grease, chemicals, etc., they must be removed by cleaning with a strong detergent. Refer to ASTM D4258. Form release agents, hardeners, etc. must be removed by sandblasting, shotblasting, mechanical scarification, or suitable chemical means. If surface deterioration presents an unacceptably rough surface, Kem Cati-Coat HS Epoxy Filler/Sealer is recommended to patch and re-surface damaged concrete.</p> <p>Concrete/Masonry, Immersion Service: For surface preparation, refer to SSPC-SP13/NACE 6, Section 4.3.1 or 4.3.2.</p> <p>Always follow the industry standards listed below: ASTM D4258 Standard Practice for Cleaning Concrete. ASTM D4259 Standard Practice for Abrading Concrete. ASTM D4260 Standard Practice for Etching Concrete. ASTM D4263 Plastic Sheet Method for Checking Moisture in Concrete. SSPC-SP13/NACE 6 Surface Preparation of Concrete</p>	<p>Temperature: 0°F minimum, 120°F maximum (air and surface) At least 5°F above dew point Material should be at least 40°F for optimal performance.</p> <p>Relative humidity: 85% maximum</p> <tr> <th colspan="2" data-bbox="860 787 1502 829">APPLICATION EQUIPMENT</th> </tr> <p>The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compatible with the existing environmental and application conditions.</p> <p>Reducer/Clean Up Reducer R7K104</p> <p>Airless Spray</p> <p>Unit 30:1 Pump Pressure 2400 - 2800 psi Hose 1/4" - 3/8" ID Tip015" - .019" Filter 60 mesh Reduction as needed, up to 10% by volume</p> <p>Conventional Spray</p> <p>Gun DeVilbiss MBC-510 Fluid Tip E Air Nozzle 704 Atomization Pressure 60-65 psi Fluid Pressure 5-15 psi Reduction as needed, up to 10% by volume</p> <p>Brush</p> <p>Brush Natural Bristle Reduction Not recommended</p> <p>Roller</p> <p>Cover 3/8" woven with phenolic core Reduction Not recommended</p> <p>If specific application equipment is listed above, equivalent equipment may be substituted.</p>	APPLICATION EQUIPMENT	
APPLICATION EQUIPMENT			



*Industrial
and
Marine
Coatings*

PART A
PART B

B67-235
B67V235

SERIES COLORS
HARDENER

4.67A

DURA-PLATE® 235 MULTI-PURPOSE EPOXY

APPLICATION BULLETIN

APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mix contents of each component thoroughly using power agitation. Make certain no pigment remains on the bottom of the can. Then combine 4 parts by volume of Part A with 1 part by volume of Part B. Thoroughly agitate the mixture with power agitation. Allow the material to sweat-in as indicated prior to application. Re-stir before using.

If reducer solvent is used, add only after both components have been thoroughly mixed, after sweat-in.

Apply paint to the recommended film thickness and spreading rate as indicated below:

Recommended Spreading Rate per coat:

Wet mils:	6.0 - 12.0
Dry mils:	4.0 - 8.0
Coverage:	136 - 272 sq ft/gal approximate

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 60 mils wet @ 50% RH:

	@ 0°F	@ 40°F	@ 77°F	@ 120°F
To touch:	18 hours	3½ hours	2 hours	20 minutes
To handle:	36 hours	12 hours	3½ hours	40 minutes
To recoat:				
minimum:	36 hours	12 hours	3½ hours	40 minutes
maximum:	6 months	6 months	6 months	6 months
Cure to service:	30 days	14 days	7 days	3 days
Pot Life:	16 hours	8 hours	4 hours	1 hour
Sweat-in-time:	1 hour	30 mins	15 minutes	5 minutes

If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity and film thickness dependent.

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

PERFORMANCE TIPS

Stripe coat crevices, welds, and sharp angles to prevent early failure in these areas.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

Do not mix previously catalyzed material with new.

Do not apply the material beyond recommended pot life.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer R7K104.

Prior to immersion service, test coating with appropriate holiday detection equipment. Set charge in accordance with manufacturer's recommendation.

Not recommended for immersion service when tinted.

Refer to Product Information sheet for additional performance characteristics and properties.

CLEAN UP INSTRUCTIONS

Clean spills and splatters immediately with Reducer R7K104. Clean tools immediately after use with Reducer R7K104. Follow manufacturer's safety recommendations when using any solvent.

SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

TOP COAT

1/402 per BNL
5.22A



Industrial
and
Marine
Coatings

ACROLON™ 218 HS ACRYLIC POLYURETHANE

PART A B65-600
PART A B65-650
PART B B65V600

GLOSS SERIES
SEMI-GLOSS SERIES
HARDENER

APPLICATION BULLETIN

Revised 1/2001

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Iron & Steel

Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6. For better performance, use Near White Metal Blast Cleaning per SSPC-SP10. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (1-2 mils). Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

Aluminum

Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1. Primer required

Galvanized Steel

Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1. When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP7 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned or before flash rusting occurs.

Poured Concrete

New

For surface preparation, refer to SSPC-SP13/NACE 6. Surfaces must be clean, dry, sound and offer sufficient profile to achieve adequate adhesion. Minimum substrate cure is 28 days at 75°F. Remove all form release agents, curing compounds, salts, efflorescence, laitance, and other foreign matter by sandblasting, shotblasting, mechanical scarification, or suitable chemical means, such as muriatic acid etch, refer to ASTM D4260. Rinse thoroughly to achieve a final pH between 6.0 and 10.0. Allow to dry thoroughly prior to coating.

Old

Surface preparation is done in much the same manner as new concrete, however, if the concrete is contaminated with oils, grease, chemicals, etc., they must be removed by cleaning with a strong detergent. Refer to ASTM D4258. Form release agents, hardeners, etc. must be removed by sandblasting, shotblasting, mechanical scarification, or suitable chemical means. If surface deterioration presents an unacceptably rough surface, Kem Cati-Coat Epoxy HS Filler/Sealer is recommended to patch and resurface damaged concrete. Fill all cracks, voids and bugholes with Sher-Plate Epoxy Patch.

Always follow the ASTM methods listed below:
ASTM D4258 Standard Practice for Cleaning Concrete.
ASTM D4259 Standard Practice for Abrading Concrete.
ASTM D4260 Standard Practice for Etching Concrete.
ASTM D4263 Plastic Sheet Method for Checking Moisture in Concrete.
SSPC-SP 13/Nace 6 Surface Preparation of Concrete

APPLICATION CONDITIONS

Temperature: 40°F minimum, 100°F maximum
(air, surface, and material)
At least 5°F above dew point

Relative humidity: 85% maximum

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compatible with the existing environmental and application conditions.

Reducer/Clean Up:

Spray Reducer R7K15
Brush/Roll Reducer #132, R7K132
If reducer is used, reduce at time of catalyzation.

Airless Spray

Pressure 2500 - 2800 psi
Hose 3/8" ID
Tip013" - .017"
Filter 60 mesh
Reduction as needed up to 5% by volume

Conventional Spray

Gun Binks 95
Cap 63P
Tip 69PB
Atomization Pressure 50 - 70 psi
Fluid Pressure 20 - 25 psi
Reduction as needed up to 5% by volume

Brush

Brush Natural Bristle
Reduction as needed up to 5% by volume

Roller

Cover 3/8" woven with phenolic core
Reduction as needed up to 5% by volume

If specific application equipment is listed above, equivalent equipment may be substituted.



*Industrial
and
Marine
Coatings*

5.22A

**ACROLON™ 218 HS
ACRYLIC POLYURETHANE**

PART A B65-600
PART A B65-650
PART B B65V600

GLOSS SERIES
SEMI-GLOSS SERIES
HARDENER

APPLICATION BULLETIN

APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mix contents of each component thoroughly with power agitation. Make certain no pigment remains on the bottom of the can. Then combine six parts by volume of Part A with one part by volume of Part B (premeasured components). Thoroughly agitate the mixture with power agitation. Re-stir before using.

If reducer is used, reduce at time of catalyzation.

Apply paint at the recommended film thickness and spreading rate as indicated below:

Recommended Spreading Rate per coat:

Wet mils: 4.5 - 9.0
Dry mils: 3.0 - 6.0
Coverage: 175 - 346 sq ft/gal approximate

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 6.0 mils wet @ 50% RH:

	@ 60°F	@ 77°F	@ 120°F
To touch:	2 hours	30 minutes	20 minutes
To handle:	10 hours	6 hours	4 hours
To recoat:			
minimum:	12 hours	8 hours	6 hours
maximum:	3 months	3 months	3 months
To cure:	14 days	7 days	5 days
Pot Life:	4 hours	2 hours	45 minutes
(reduced 5% with Reducer R7K15)			
Sweat in Time:	none	none	none

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

PERFORMANCE TIPS

Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

Do not apply the material beyond recommended pot life.

Do not mix previously catalyzed material with new.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer #132, R7K132.

Mixed coating is sensitive to water. Use water traps in all air lines. Moisture contact can reduce pot life and affect gloss and color.

Refer to Product Information sheet for additional performance characteristics and properties.

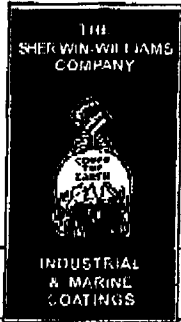
CLEAN UP INSTRUCTIONS

Clean spills and splatters immediately with Reducer #132, R7K132. Clean tools immediately after use with Reducer #132, R7K132. Follow manufacturer's safety recommendations when using any solvent.

SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.



*Industrial
and
Marine
Coatings*

5.22

**ACROLON™ 218 HS
ACRYLIC POLYURETHANE**

PART A B65-600
PART A B65-650
PART B B65V600

GLOSS SERIES
SEMI-GLOSS SERIES
HARDENER

PRODUCT INFORMATION

Revised 1/2001

PRODUCT DESCRIPTION		RECOMMENDED USES																																	
<p>ACROLON 218 HS ACRYLIC POLYURETHANE is a VOC compliant, polyester modified, aliphatic, acrylic polyurethane formulated specifically for in-shop applications. Also suitable for industrial applications. A fast drying, high gloss urethane that provides color and gloss retention for exterior exposure.</p> <ul style="list-style-type: none"> • Can be used directly over organic zinc rich primers (epoxy zinc primer and moisture cure urethane zinc primer) • Suitable for use in USDA inspected facilities • Color and gloss retention for exterior exposure • Fast dry 		<p>Specifically formulated for in-shop applications.</p> <p>For use over prepared metal and masonry surfaces in industrial environments such as:</p> <ul style="list-style-type: none"> • Structural steel • Rail cars and locomotives • Conveyors • Bridges • Offshore platforms—exploration and production • Tank exteriors • Pipelines • Ships 																																	
PRODUCT CHARACTERISTICS		PERFORMANCE CHARACTERISTICS																																	
<p>Finish: High Gloss or Semi-Gloss</p> <p>Color: Ultra White and a wide range of colors available</p> <p>Volume Solids: 65% ± 2%, mixed, may vary by color Ultra White</p> <p>Weight Solids: 78% ± 2%, mixed, may vary by color Ultra White</p> <p>VOC (EPA Method 24): Pure White, mixed Unreduced: 287 g/L; 2.4 lb/gal Reduced 10%: 336 g/L; 2.8 lb/gal Reduced 15%: 360 g/L; 3.0 lb/gal</p> <p>Mix Ratio: 6:1 by volume, 1 gallon or 5 gallon mixes premeasured components</p> <p>Recommended Spreading Rate per coat: Wet mils: 4.5 - 9.0 Dry mils: 3.0 - 6.0 Coverage: 175 - 346 sq ft/gal approximate</p> <p>NOTE Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.</p> <p>Drying Schedule @ 6.0 mils wet @ 50% RH:</p> <table border="1"> <thead> <tr> <th></th> <th>@ 50°F</th> <th>@ 77°F</th> <th>@ 120°F</th> </tr> </thead> <tbody> <tr> <td>To touch:</td> <td>2 hours</td> <td>30 minutes</td> <td>20 minutes</td> </tr> <tr> <td>To handle:</td> <td>10 hours</td> <td>6 hours</td> <td>4 hours</td> </tr> <tr> <td>To recoat:</td> <td></td> <td></td> <td></td> </tr> <tr> <td> minimum:</td> <td>12 hours</td> <td>8 hours</td> <td>6 hours</td> </tr> <tr> <td> maximum:</td> <td>3 months</td> <td>3 months</td> <td>3 months</td> </tr> <tr> <td>To cure:</td> <td>14 days</td> <td>7 days</td> <td>5 days</td> </tr> <tr> <td>Pot Life:</td> <td>4 hours</td> <td>2 hours</td> <td>45 minutes</td> </tr> </tbody> </table> <p>(reduced 5% with Reducer R7K15)</p> <p>Sweat In Time: none none none If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.</p> <p>Shelf Life @ 77°F: Part A 36 months, unopened Part B 12 months, unopened</p> <p>Flash Point: 55°F, Seta, mixed</p> <p>Reducer/Clean Up: Spray Reducer R7K15 Brush/Roll Reducer #132, R7K132</p>			@ 50°F	@ 77°F	@ 120°F	To touch:	2 hours	30 minutes	20 minutes	To handle:	10 hours	6 hours	4 hours	To recoat:				minimum:	12 hours	8 hours	6 hours	maximum:	3 months	3 months	3 months	To cure:	14 days	7 days	5 days	Pot Life:	4 hours	2 hours	45 minutes	<p>System Tested: (unless otherwise indicated) Substrate: Steel</p> <p>Surface Preparation: SSPC-SP10 1 ct. Macropoxy 646 @ 6.0 mils dft 1 ct. Acrolon 218 HS Gloss @ 4.0 mils dft</p> <p>Abrasion Resistance: ¹ Method: ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load Result: 43 mg loss</p> <p>Accelerated Weathering, with Diamond-Clad Clear Coat: Method: ASTM D4587, QUV-A, 10,000 hours Results: 100% gloss retention</p> <p>Adhesion: Method: ASTM D4541 Result: 975 psi</p> <p>Corrosion Weathering: ² Method: ASTM D5894, 4 cycles, 1344 hours Result: Rating 10 per ASTM D610, for rusting Rating 10 per ASTM D714, for blistering</p> <p>Direct Impact Resistance: ¹ Method: ASTM D2794 Result: 50 in. lb.</p> <p>Dry Heat Resistance: ¹ Method: ASTM D2485, Method A Result: 200°F</p> <p>Flexibility: ¹ Method: ASTM D522, 180° bend, 1/8" mandrel Result: Passes</p> <p>Humidity Resistance: ² Method: ASTM D4585, 100°F, 1500 hours Result: Rating 10 per ASTM D610 for rusting Rating 10 per ASTM D714 for blistering</p> <p>Pencil Hardness: Method: ASTM D3363 Result: 3H</p> <p>Salt Fog Resistance: ² Method: ASTM B117, 1500 hours Result: Rating 10 per ASTM D610 for rusting Rating 10 per ASTM D714 for blistering</p>	
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*Industrial
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5.22

ACROLON™ 218 HS ACRYLIC POLYURETHANE

PART A B65-600
PART A B65-650
PART B B65V600

GLOSS SERIES
SEMI-GLOSS SERIES
HARDENER

PRODUCT INFORMATION

RECOMMENDED SYSTEMS

- Steel:**
1 ct. Macropoxy 646 @ 5.0 - 10.0 mils dft
1-2 cts. Acrolon 218 HS Acrylic Polyurethane @ 3.0 - 6.0 mils dft/ct
- Steel:**
1 ct. Zinc Clad II HS @ 3.0 - 5.0 mils dft
1 ct. Macropoxy 646 @ 5.0 - 10.0 mils dft
1-2 cts. Acrolon 218 HS Acrylic Polyurethane @ 3.0 - 6.0 mils dft/ct
- Steel:**
1 ct. Zinc Clad IV @ 3.0 - 5.0 mils dft
1-2 cts. Acrolon 218 HS Acrylic Polyurethane @ 3.0 - 6.0 mils dft/ct
- Steel:**
1 ct. Corothane I - GalvaPac Zinc Primer @ 3.0 - 4.0 mils dft
1-2 cts. Acrolon 218 HS Acrylic Polyurethane @ 3.0 - 6.0 mils dft/ct
- Steel:**
1 ct. Epoxy Mastic Aluminum II @ 6.0 mils dft
1-2 cts. Acrolon 218 HS Acrylic Polyurethane @ 3.0 - 6.0 mils dft/ct
- Steel:**
1 ct. Recoatable Epoxy Primer @ 4.0 - 6.0 mils dft
1-2 cts. Acrolon 218 HS Acrylic Polyurethane @ 3.0 - 6.0 mils dft/ct
- Concrete/Masonry:**
1 ct. Kam Coat HS Epoxy Filler/Sealer @ 10.0 - 20.0 mils dft
1-2 cts. Acrolon 218 HS Acrylic Polyurethane @ 3.0 - 6.0 mils dft/ct
- Aluminum/Galvanizing:**
1 ct. DTM Wash Primer @ 0.7 - 1.3 mils dft
1-2 cts. Acrolon 218 HS Acrylic Polyurethane @ 3.0 - 6.0 mils dft/ct

The systems listed above are representative of the product's use. Other systems may be appropriate.

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

- * Iron & Steel: SSPC-SP6, 1-2 mils profile
- * Galvanizing: SSPC-SP1
- * Concrete & Masonry: SSPC-SP13/NACE 6

* Primer required

COLOR AVAILABILITY/TINTING

Tint with Huls 844 Colorants. Pure White, Midtone, and Deeptone bases tint at 100% tint strength. Ultradeep base tints at 150% tint strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

Color: Ultra White and a wide range of colors available

APPLICATION CONDITIONS

Temperature: 40°F minimum, 100°F maximum (air, surface, and material)
At least 5°F above dew point

Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging:	1 gallon mix:	5 gallon mix:
Part A:	.86 gal	4.29 gal
Part B:	.14 gal	0.71 gal
(premeasured components)		
Weight per gallon:	11.2 ± 0.2 lb mixed, may vary with color	

SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.



Alpha Boats Unlimited

div. of Barber Welding, Inc.

- Trash & Debris Skimmers ● Aquatic Harvesters ● Crane Boats ● Dredges ● Oil Skimmers ●

WARRANTY NEW EQUIPMENT

1. **EXPRESS WARRANTY:** Alpha Boats Unlimited Warrants for one (1) year after shipment of new equipment manufactured by ABU that the material and workmanship of such equipment were free from defects at the time of shipment. If at any time during such one (1) year, it is established to seller's satisfaction that any part or parts were defective at the time they were shipped, seller will deliver replacement parts, make repairs or pay for repairs, at seller's option. Seller will make no allowances for corrective work done unless specifically agreed to by seller. Breakage or excessive wear caused by misuse, negligence, accident, alteration, or overloading; deterioration by chemical action; wear caused by the presence of abrasive materials; and normal wear of items such as cutters and belting do not constitute defects.

2. **WARRANTY OF EQUIPMENT MANUFACTURED BY OTHERS:** Equipment furnished but not manufactured by ABU is warranted by seller only to the extent of express warranties of the manufacturers, and not otherwise. Upon receipt of purchaser, ABU will request the benefits of such warranties on behalf of purchaser.

3. **NO IMPLIED WARRANTY:** It is agreed and understood that the seller makes no implied warranty of merchantability or fitness or any other warranty express or implied, other than as provided in paragraphs 2 and 3 above.

4. **LIMITATION OF REMEDY:** The purchaser's sole remedy shall be for the replacement, allowance or repair as stated in paragraph 2 above and ABU shall not be liable for consequential damages of any kind, whether to person or property, arising from the use of the equipment or any defects therein. ABU shall not be liable for loss or damage of any kind due to delay caused by any events, condition or other reason beyond reasonable control.

2517 State Rt. 31 • P.O. Box 690 • Weedsport, NY 13166
Toll Free 1-877-627-3084 • Phone (315) 834-6648 • Fax (315) 834-6045
E-Mail: info@alphaboats.com • Website: www.alphaboats.com

AS

Alpha Boats Unlimited Terms and Conditions

1. **Written Contract:** The terms and conditions set forth herein constitute a complete and exclusive statement of the agreement between the parties. The contract becomes binding only when it has been signed by both parties and in mutual agreement. Prices are F.O.B. (Freight on Board) place of shipment unless otherwise specified. Clerical errors are subject to correction. When signed first by Alpha Boats Unlimited (herein after referred to as ABU) the offer thus made shall expire (30) days from the date of signature but all quotations are subject to change within this 30-day period. ABU published price literature is not an offer to sell and is maintained only as a source of general information and any prices shown therein are subject to confirmation by a specific quotation indicating actual size, quantities, etc. Verbal quotations are not binding unless confirmed in writing as herein provided.
2. **Express Warranty:** Seller warrants for one (1) year after shipment of new equipment manufactured by ABU that the material and workmanship of such equipment were free from defects at the time of shipment. If at any time during such one (1) year, it is established to seller's satisfaction that any part or parts were defective at the time they were shipped, seller will either deliver replacement parts, make repairs or pay for repairs, at seller's option. Seller will make no allowances for corrective work done unless specifically agreed to by seller. Breakage or excessive wear caused by misuse, negligence, accident, alteration, overloading; deterioration by chemical action; wear caused by the presence of abrasive materials; and normal wear of items such as cutters, belting, etc., do not constitute defects.
3. **Warranty of Equipment Manufactured by Others:** Equipment furnished but not manufactured by ABU is warranted by seller only to the extent of express warranties of the manufacturers, and not otherwise. Upon request of purchaser, ABU will request the benefits of such warranties on behalf of purchaser.
4. **Limits and Release of Liability Paragraphs 2 and 3.** In no event shall ABU be liable for any direct, indirect, special incidental or consequential damages (including loss of profits, loss of time, inconvenience, or the use or inability to use this product for any purpose whatsoever whether based on contract, tort, strict liability or any other legal basis, even if ABU was advised of the possibility of the occurrence of such damages). The customer/purchaser expressly releases and discharges ABU from all claims, demands, actions, suits, judgments and executions for any actual, incidental or consequential damages, bodily or otherwise, that the customer/purchaser ever had, now has or may have created by arising out of the assembly, use and/or operation of this unit. All reference to customer/ purchaser include such parties' legal representatives and assigns.

ABU shall not be liable for defects or damages resulting from: (a) usage that is improper and/or not in accordance with the instruction manual (b) improper or inadequate maintenance (c) modification or alteration of the product (d) neglect, misuse, abuse of product (e) accident (f) unauthorized repair or alteration (g) integration with other products or accessories not manufactured specifically for use of product (h) exposure to corrosive elements (i) exposure to conditions in excessive weather conditions (j) product upgrades (k) Force Majeure. No implied warranty, it is agreed and understood that the seller makes no implied warranty of merchantability or fitness or any other warranty express or implied other than as provided in paragraphs 2, 3 and 4.
5. **Limitation of Remedy:** The purchaser's sole remedy shall be for the replacement, allowance or repair as stated in paragraph 2 above and ABU shall not be liable for consequential damages of any kind, whether to person or property, arising from the use of the equipment or any defects therein. ABU shall not be liable for any default or delay in use of this product caused by any contingency beyond our control, including without limitation, war, government restrictions or restraints, strikes, fire, floods.
6. **Taxes:** Unless otherwise indicated, no sales use, or similar taxes have been included in the price. Any taxes are extra if applicable, and will be charged to purchaser. Proper exemption certificate must be provided in order to be tax exempt.
7. **Data:** This proposal, drawings, and related data are seller's property and are subject to recall at any time before this proposal becomes a contract by acceptance and approval as hereunder provided. Any drawings accompanying this proposal are not to be used for construction purposes, reproduced or used in any way, shape or manner other than with the written permission of ABU and be returned upon seller's request.
8. **Insurance:** Purchaser shall provide and maintain, at purchaser's expenses, insurance against loss or damage to the property being sold pursuant to this contract by fire or other casualty, such insurance to be effective at time of delivery F.O.B. place of shipment by seller and to be continued until seller receives full payment for said property. Upon request of seller, purchaser will provide certificates evidencing such coverage. Such coverage shall be for the full purchase price, shall cover the property being sold pursuant to this contract, and losses; if any, shall be payable to seller as seller's interest may appear. If purchaser fails to provide the insurance coverage contemplated hereby, purchaser shall assume all loss resulting from damage to or loss of the property sold pursuant to this contract.
9. **Seller's Security Interest:** Purchaser shall acquire Title to the equipment described herein when final payment is made in cash, check or wire transfer and funds have cleared bank.
10. **Delivery and Risk of Loss and Claims for Shortages:** ABU will be "Hold Harmless" for in-transit shipping. Any claims arising from shipment will be between buyer and Transportation Carrier. It is the responsibility of the buyer to provide necessary equipment for unloading of the equipment upon arrival by carrier. Any additional charges arising from unloading delays, change in delivery sites is the responsibility of the buyer. Risk of loss is on the purchaser after delivery F.O.B. place of shipment. Claims for shortages, or errors, can be considered only when made to seller immediately after receipt of shipment.
11. **Cancellations:** An order placed with and accepted by ABU can be cancelled only with ABU's consent and upon terms that take into consideration expenses incurred and commitments made by ABU. Any payments made to ABU may be held as liquidated damages.
12. **No Other Contract Provisions:** Any terms and conditions on the forms of the purchaser which are in addition to or in conflict with the terms and conditions hereof shall not be a part of the contract or binding on the seller. Failure of the seller to object to provisions contained in any order or communication from a purchaser shall not be deemed a waiver of these conditions. No waiver, alteration or modification of these conditions shall be binding unless in writing signed by ABU.
13. **Situs of Contract:** The contract evidenced hereby shall be deemed to have been made in the Country, State and Country were signed by Seller and shall be construed according to their laws.
14. **Reserved Rights:** ABU reserves the right to change the specifications at any time and make substitutions consisting of the latest approved equipment and/or design. ABU's policy is one of continued improvement of product design. ABU reserves the right to make changes, additions or improvements upon its products with no obligation to install the same upon its products heretofore manufactured.

AS



Alpha Boats Unlimited

div. of Barber Welding, Inc.

- Trash & Debris Skimmers ● Aquatic Harvesters ● Crane Boats ● Dredges ● Oil Skimmers ●

June 2, 2006

City of Long Beach
City Manager
333 West Ocean Boulevard
Plaza Level
Long Beach, CA 90802

ATT: City Clerk

RE: Invitation to Bid – Skimmer Boat
Bid Number: PA-01806
Bid Opening: June 8, 2006 @ 11:00 a.m.

Dear City Clerk:

We are pleased to submit our bid proposal for a Skimmer Boat for City of Long Beach, Public Works, Fleet Services. The Alpha skimmer boat model being presented is the Marina Cleaner MC-402 which meets and exceeds your specifications. For the support equipment we would be providing Trailer Model TLT-400E and Pier Conveyor Model PC-6036E.

Attached with our bid is all pertinent technical documentation to verify compliance with your technical specification. The specified equipment is of current design and production and of proven performance history.

All requested options have been quoted on the bid form along with our proposal for anti-foul application should you choose to accept this as an option. Warranty statement is attached for your review. Certification of Insurance and Workmen's Compensation has been requested but due to short response time, will be provided via fax and mail upon receipt.

Paint primer and finished coat specified is "Dupont" which is manufacturer's brand name. Alpha Boats Unlimited "equal to state approved equivalent" is Sherwin Williams and our primer is an "Immersion" Duraplate 235 with finished coating whether below or above water line is an Acrylon 218 epoxy topcoat (non-chalking). We have enclosed manufacturers specifications for comparison.

2517 State Rt 31 • P.O. Box 690 • Weedsport, NY 13166
Toll Free 1-877-627-3084 • Phone (315) 834-6648 • Fax (315) 834-6045
E-Mail: info@alphaboats.com • Website: www.alphaboats.com

City of Long Beach
Invitation to Bid – Skimmer Boat
Bid Number: PA-01806
Bid Opening: June 8, 2006 @ 11:00 a.m.
Page 2 of 2

As we are the manufacturer of the above equipment (not the contractor) being provided with this bid letter, we are confirming that the items offered are scheduled for production in sufficient time to meet the schedule delivery dates of ~~ARO~~ *6 months A.R.O.* ~~ARQ~~

Thanking you in advance for the opportunity to bid and if you need further clarification, please do not hesitate to contact me.

Sincerely yours,


Anne Seneca
Sales & Marketing Director

AS/
Enclosures
Bid Package
ABU Specs/Drawings/
Paint Clarification
Warranty Statement



Alpha Boats Unlimited

div. of Barber Welding Inc.

Aquatic Management Equipment Manufacturer

2517 State Route 31W
P.O. Box 690
Weedsport, NY 13166
315-834-6648
1-877-627-3084
Fax: 315-834-6045

Anne Seneca
Sales / Marketing

www.alphaboats.com
info@alphaboats.com

2517 State Rt 31 • P.O. Box 690 • Weedsport, NY 13166
Toll Free 1-877-627-3084 • Phone (315) 834-6648 • Fax (315) 834-6045
E-Mail: info@alphaboats.com • Website: www.alphaboats.com

STATEMENT OF BOARD OF DIRECTORS
OF
BARBER WELDING INC.

The undersigned, Stephen L. Walczyk, being the sole member of the Board of Directors of Barber Welding Inc. hereby confirms and declares the following:

Be it RESOLVED, that Stephen L. Walczyk, as President of Barber Welding Inc., may make such investments as he sees fit without restrictions of any kind on behalf of the corporation and, also, in making said investments, he may sign on behalf of the corporation any document or instrument required in connection with the investment.

This statement made this 5th day of February, 1990 and shall be made a part of the corporate records of Barber Welding Inc.




Stephen L. Walczyk
Sole Director

STATE OF NEW YORK

SS.:

COUNTY OF CAYUGA

Before me, the undersigned notary public, came STEPHEN L. WALCZYK, known to me to be the President of Barber Welding Inc. and he acknowledged execution of the above statement as such President and sole member of the Board of Directors of Barber Welding Inc.



Notary Public

C90BWs/BoD

THOMAS P. STOPYRA
Notary Public in the State of New York
Qualified in Cayuga County No. 1215
My Commission Expires 4-30-90

**STATEMENT AND DESIGNATION
BY FOREIGN CORPORATION**

BARBER WELDING INC. which will do business in California as

(Name of Corporation)

Alpha Boats Unlimited

, a corporation organized and existing under the laws of New York State, makes the following statements and designation:
(State or Place of Incorporation)

1. The address of its principal executive office is 2517 State Route 31 West
Weedsport, NY, 13166, USA

2. The address of its principal office in the State of California is

DESIGNATION OF AGENT FOR SERVICE OF PROCESS IN THE STATE OF CALIFORNIA

(Complete either Item 3 or Item 4.)

3. (Use this paragraph if the process agent is a natural person.)

Chad Storvick

, a natural person residing in the State of California, whose complete address is 3535 Lebon Street, #4101, San Diego, California, 92122

is designated as agent upon whom process directed to this corporation may be served within the State of California, in the manner provided by law.

4. (Use this paragraph if the process agent is a corporation.)

, a corporation organized and existing under the laws of, is designated as agent upon whom process directed to this corporation may be served within the State of California, in the manner provided by law.

NOTE: Corporate agents must have complied with California Corporations Code Section 1505 prior to designation.

5. It irrevocably consents to service of process directed to it upon the agent designated above, and to service of process on the Secretary of State of the State of California if the agent so designated or the agent's successor is no longer authorized to act or cannot be found at the address given.


(Signature of Corporate Officer)

Stephen L. Walczyk, President
(Typed Name and Title of Officer Signing)

Name Reservation Request Form

Corporations, Limited Partnerships, and Limited Liability Companies

THE PROPOSED NAME IS TO BE RESERVED FOR USE BY:

YOUR NAME:	Stephen L. Walczyk		
FIRM NAME (IF ANY):	ALPHA BOATS UNLIMITED, div. of Barber Welding Inc.		
ADDRESS:	2517 State Route 31 West., PO Box 690		
CITY/STATE/ZIP:	Weedsport, NY 13166		
TELEPHONE #:	315-834-6645	FAX #:	315-834-6045

TYPE OF ENTITY (choose only one)

Corporation
 Limited Partnership
 Limited Liability Company

NAME TO BE RESERVED

Enter the name to be reserved. Only one reservation will be made per name reservation request form. You may list up to three names, in order of preference, and the first available name will be reserved for a period of 60 days. The remaining names will not be researched.

1st Choice:	Alpha Boats Unlimited		
FOR OFFICE USE ONLY	() is available. () is available only with consent from *: () is not available. We have *:		
2nd Choice:			
FOR OFFICE USE ONLY	() is available. () is available only with consent from **: () is not available. We have **:		
3rd Choice:			
FOR OFFICE USE ONLY	() is available. () is available only with consent from ***: () is not available. We have ***:		

SUSPENDED/FORFEITED CORPORATION

<input type="checkbox"/> If the proposed name is being reserved for the purpose of reviving a suspended/forfeited corporation, check the box and include the corporate number.	CORPORATION NUMBER
--	--------------------

MAIL BACK RESPONSE

If the name reservation request form is submitted in person and if you would like the reservation to be mailed back, check the box and include a self-addressed envelope.

FEES
Make check(s) payable to the Secretary of State.

Reservation Fee: The fee for reserving a corporation, limited partnership or limited liability company name is \$10.00 (per reserved name).

Special Handling Fee: A \$10.00 special handling fee is applicable for processing requests delivered in person to the Secretary of State's office. The \$10.00 special handling fee must be remitted by separate check for each submittal and will be retained whether the proposed name is accepted or denied for reservation. The special handling fee does not apply to name reservation requests submitted by mail.

THE SPACE BELOW IS RESERVED FOR OFFICE USE ONLY

Date:	Amt Rec'd:	R #:	By:
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Name Reservation Request Form

Corporations, Limited Partnerships, and Limited Liability Companies

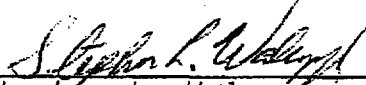
THE PROPOSED NAME IS TO BE RESERVED FOR USE BY:	
YOUR NAME:	Stephen L. Walczyk
FIRM NAME (IF ANY):	Barber Welding Inc.
ADDRESS:	2517 State Route 31 West,, PO Box 690
CITY/STATE/ZIP:	Weedsport, NY 13166
TELEPHONE #:	315-834-6645
	FAX #: 315-834-6045
TYPE OF ENTITY (choose only one)	
<input checked="" type="checkbox"/> Corporation	<input type="checkbox"/> Limited Partnership
	<input type="checkbox"/> Limited Liability Company
NAME TO BE RESERVED	
Enter the name to be reserved. Only one reservation will be made per name reservation request form. You may list up to three names, in order of preference, and the first available name will be reserved for a period of 60 days. The remaining names will not be researched.	
1st Choice:	Barber Welding Inc.
FOR OFFICE USE ONLY	() is available. () is available only with consent from * : () is not available. We have * : *
2nd Choice:	
FOR OFFICE USE ONLY	() is available. () is available only with consent from ** : () is not available. We have ** : **
3rd Choice:	
FOR OFFICE USE ONLY	() is available. () is available only with consent from *** : () is not available. We have *** : ***
SUSPENDED/FORFEITED CORPORATION	
<input type="checkbox"/> If the proposed name is being reserved for the purpose of reviving a suspended/forfeited corporation, check the box and include the corporate number.	CORPORATION NUMBER
MAIL BACK RESPONSE	
<input type="checkbox"/> If the name reservation request form is submitted in person and if you would like the reservation to be mailed back, check the box and include a self-addressed envelope.	
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Make check(s) payable to the Secretary of State.	
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THE SPACE BELOW IS RESERVED FOR OFFICE USE ONLY	
Date:	Amt Rec'd:
	R #:
	By:
NAME RESERVATION REQUEST FORM (REV 07/2005)	

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OF
BARBER WELDING INC.

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This statement made this 5th day of February, 1990 and shall be made a part of the corporate records of Barber Welding Inc.



Stephen L. Walczyk
Sole Director

STATE OF NEW YORK

SS.:

COUNTY OF CAYUGA

Before me, the undersigned notary public, came STEPHEN L. WALCZYK, known to me to be the President of Barber Welding Inc. and he acknowledged execution of the above statement as such President and sole member of the Board of Directors of Barber Welding Inc.



Notary Public

C908Ws/BoD

THOMAS P. STOPYRA
Notary Public in the State of New York
Qualified in Cayuga County No. 1215
My Commission Expires 4-30-90

**MINUTES OF JOINT MEETING
OF
SOLE SHAREHOLDER AND
SOLE MEMBER OF THE BOARD OF DIRECTORS
OF
BARBER WELIDNG, INC.**

DECEMBER 21, 2005

A meeting of the sole shareholder and sole member of the Board of Directors of Barber Welding, Inc. was held by Stephen L. Walczyk, sole shareholder and sole director, with Karen Nadherny, accountant for the corporation, at the accounting office of Karen Nadherny in Auburn, New York on December 21, 2005.

ELECTION OF DIRECTOR: Stephen L. Walczyk was re-elected as sole member of the Board of Directors and he is to serve until further action of the corporation declaring otherwise.

ELECTION OF OFFICER: Stephen L. Walczyk was re-elected to the position of President, Secretary and Treasurer of Barber Welding, Inc. and he is to hold said offices until otherwise directed by the Board of Directors of the corporation.

FINANCIAL REPORT: Karen Nadherny, E.A., accountant for the corporation, discussed the financial status of the corporation.

GENERAL DISCUSSION: After general discussion of the status and future procedure regarding financial and organizational matters of the corporation and there being no further business, the meeting was adjourned at 3:15 P.M.

Dated: December 21, 2005

A handwritten signature in cursive script, reading "Stephen L. Walczyk", is written over a horizontal line.

Stephen L. Walczyk
Sole Shareholder
Sole Member of Board of Directors