

**INVITATION FOR BIDS
IFB 2019-004**

AQUATIC WEED/TRASH SKIMMER VESSEL

PREPARED BY:



**AQUARIUS
SYSTEMS**
A Division of D&D Products Inc.

ADDRESS: 200 NORTH HARRISON STREET
NORTH PRAIRIE, WI 53153
(262)392-2162

CONTACT PERSON: TRAVIS WEBB
EMAIL: TRAVISW@AQUARIUS-SYSTEMS.COM

FEBRUARY 26, 2019

February 26, 2019

Mr. Yusbel Gonzalez
City of Coral Gables
2800 SW 72nd Avenue
Miami, FL 33155

RE: IFB No. 2019-004

Dear Mr. Gonzalez,

Thank you for the opportunity to quote your requirements for a new Aquatic Weed/Trash Skimmer vessel. We truly appreciate your interest in our company and product line.

For 55 years Aquarius Systems has been producing this type of equipment, which has been sold across the United States and to nearly 50 countries worldwide. Also, we are a small, woman-owned business.

In response to the bid we are offering our TH-12 Trash Hunter, built from 316L and 304L stainless steel. The optional operator cabin is made from aluminum, and all other parts used on the machine will be marinated per the specification requirements. Anodes will be placed where necessary on the machine.

The TH-12 Trash Hunter has a 10,000 pound storage capacity on board by weight, or 500 cubic feet by volume. It will be built in a low-profile configuration, with the operator stand and power plant located on the port and starboard deck to accommodate your height requirements. The overall length will enable it to turn in a canal that is 45 feet in width.

The collection wings each have a capture plate. The wings open and close completely to help direct trash onto the front conveyor. Our unique wings include heavy duty grating to withstand damage from wooden debris, as well as moving conveyor belts to readily capture lightweight floating material. This design is special too as it allows for easy maintenance and repair of the conveyor belting mounted on the wings. Rollers are located at the end of each wing for protection and use along a seawall.

The full barge-style hull provides a very shallow draft both loaded and empty. It is wide enough to accommodate movement by the operator on both sides of the machine. Convenience ladders are provided on both sides of the storage hold to aid in crossing from one side of the machine to the other. Railings will be installed on both sides of the Trash Hunter too, unless you prefer otherwise.

February 26, 2019
City of Coral Gables
Page 2

The barge will have four lifting eyes on it for convenience, as well as rope cleats to secure the machine at night. Runners are installed on the barge bottom to protect it, and are also used to seat the Trash Hunter safely onto guide rails on the TR-34 Trailer. The barge also features a VEE-bow which helps to divert water and enable it to transit more quickly. Convenient eye bolts are located on both the bow and stern of the barge to attach the trailer winch hook.

The collection conveyor, storage conveyor, and discharge conveyor will be lined with UHMW plastic to protect the frames from wear. The discharge conveyor will extend eight feet from the stern of the machine for ease of unloading. Heavy duty stainless steel conveyor belting will be used, and stainless steel flights will be attached to the collection conveyor belt to help bring trash and debris onboard.

The optional operator cabin will seat one person and all controls will be located there. Air-conditioning can be provided for operator comfort. The window glass is tinted and a windshield wiper shall be included.

If favored with an order, our offer includes the cost for one person to travel to Wisconsin for a **pre-construction meeting** to verify and confirm all the details of the machine to be manufactured. We find this to be a valuable exercise for both parties, as we want to be sure to supply our customers with exactly what they are expecting.

Please let us know if you have any questions or require further information. Thank you again for your consideration.

Yours Sincerely,

AQUARIUS SYSTEMS



Travis Webb,
Technical Products Manager

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Bidder Acknowledgement Form

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CITY OF CORAL GABLES, FL

2800 SW 72nd Avenue, Miami, FL 33155
 Finance Department / Procurement Division
 Tel: 305-460-5102/ Fax: 305-261-1601

BIDDER ACKNOWLEDGEMENT

IFB Title: AQUATIC WEED/TRASH SKIMMER VESSEL IFB No. 2019-004 A cone of silence is in effect with respect to this IFB. The Cone of Silence prohibits certain communication between potential vendors and the City. For further information, please refer to the City Code Section 2-1027 of the City of Coral Gables Procurement Code.	Sealed bid submittals must be received prior to 2:00 p.m., Thursday, February 28, 2019 , by the Procurement Division, located at 2800 SW 72 nd Avenue, Miami, FL 33155 and are to remain valid for 90 calendar days. Submittals received after the specified date and time will be returned unopened. Contact: Yusbel Gonzalez, CPPB Title: Procurement Specialist Telephone: 305-460-5107 Email: ygonzalez@coralgables.com / contracts@coralgables.com
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Bidder Name: Aquarius Systems - A Division of D&D Products, Inc.	FEIN or SS Number: 39-1053448
Complete Mailing Address: PO Box 215 North Prairie, WI 53153	Telephone No. 262-392-2162
	Cellular No. 262-392-2162
Indicate type of organization below: Corporation: <input checked="" type="checkbox"/> Partnership: <input type="checkbox"/> Individual: <input type="checkbox"/> Other: <input type="checkbox"/>	Fax No.: 262-222-5795
	Email: travisw@aquarius-systems.com

ATTENTION: THIS FORM ALONG WITH ALL REQUIRED IFB FORMS MUST BE COMPLETED, SIGNED (PREFERABLY IN BLUE INK), AND SUBMITTED WITH THE BID PRIOR TO THE SUBMITTAL DEADLINE. FAILURE TO DO SO MAY DEEM YOUR BID NON-RESPONSIVE.

THE BIDDER CERTIFIES THAT THIS SUBMITTAL IS BASED UPON ALL CONDITIONS AS LISTED IN THE IFB DOCUMENTS AND THAT THE BIDDER HAS MADE NO CHANGES IN THE IFB DOCUMENT AS RECEIVED. THE BIDDER FURTHER AGREES, IF THE BID IS ACCEPTED, THE BIDDER WILL EXECUTE AN APPROPRIATE AGREEMENT FOR THE PURPOSE OF ESTABLISHING A FORMAL CONTRACTUAL RELATIONSHIP BETWEEN THE BIDDER AND THE CITY OF CORAL GABLES, FOR THE PERFORMANCE OF ALL REQUIREMENTS TO WHICH THIS IFB PERTAINS. FURTHER, BY SIGNING BELOW PREFERABLY IN BLUE INK ALL IFB PAGES ARE ACKNOWLEDGED AND ACCEPTED, AS WELL AS, ANY SPECIAL INSTRUCTION SHEET(S), IF APPLICABLE. THE UNDERSIGNED HEREBY DECLARES (OR CERTIFIES) ACKNOWLEDGEMENT OF THESE REQUIREMENTS AND THAT HE/SHE IS AUTHORIZED TO BIND PERFORMANCE OF THIS IFB FOR THE ABOVE BIDDER.



Authorized Name and Signature

Technical Product Manager
Title

2/26/19
Date

Coral Gables Local Preference Acknowledgement. (Check the box if you are asserting you qualify. A valid Coral Gables business tax receipt must be submitted as proof of qualification.) Please refer to Ordinance 2009-53, § 2, 11-17-2009/Procurement Code Sec. 2-696

Solicitation Submission Checklist

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SOLICITATION SUBMISSION CHECKLIST

Invitation for Bids (IFB) No 2019-004

COMPANY NAME: (Please Print): Aquarius Systems - A Division of D&D Products, Inc.

Phone: 262-392-2162 Email: travisw@aquarius-systems.com

A SEPARATE response package numbered by page must be submitted. Please provide the PAGE NUMBER of your separate solicitation response (PLEASE DO NOT SUBMIT AN ENTIRE COPY OF THE ORIGINAL SOLICITATION) in the blanks provided as to where compliance information is located in your Submittal for each of the required submittal items listed below:

- 1) Title Page: Show the IFB number and title, the name of your firm, address, telephone number, name of contact person, e-mail address, and date. **PAGE #** Cover of Packet, P.n/a
- 2) Provide a Table of Contents in accordance with the Bid Format, Section 6.2. Clearly identify the material by section and page number. Please insert *additional TABS* on the following sections in the Original Bid Copy: Bid Bond (if applicable), Bid Price Sheet and Addendum Acknowledgement. **PAGE #** 1
- 3) Fill out, sign, and submit the Bidder's Acknowledgement Form. **PAGE #** 3 (tab 1)
- 4) Fill out and submit this Solicitation Submission Checklist. **PAGE #** 5 (tab 2)
- 5) Minimum Qualification Requirements: submit detailed verifiable information affirmatively documenting compliance with the Minimum Qualifications Requirements shown in Section 3. **PAGE #** 7 (tab 3)

References: Provide a list and description of a minimum of three (3) similar municipal engagements, within the last ten (10) years, for which aquatic weed/trash skimmer vessels were provided. For each engagement listed, include the name, telephone number and email address of a representative for whom engagement was undertaken who can verify performance. Additionally, include the make and model of equipment provided, as well as awarded value of the contract, and date of purchase. *Note: Do not include work/services performed for the City of Coral Gables or City employees as references.* **PAGE #** 8 (tab 3)

- 6) List all contracts which the Bidder has performed (past and present) for the City of Coral Gables. The City will review all contracts the Bidder has performed for the City in accordance with Section 4.9 Evaluation of Bids (c) (4) which states the City may consider "Bidder's unsatisfactory performance record, judged from the standpoint of conduct of work, workmanship, progress or standards of performance agreed upon in the Contract as substantiated by past or current work with the City". As such the Bidder must list and describe all work performed for Coral Gables and include for each project. **PAGE #** 11 (tab 4)
 - a. Name of the City Department for which the services are being performed,
 - b. Scope/description of work,
 - c. Awarded value of the contract/current value
 - d. Effective dates and term of the contract
 - e. City project manager's name and phone number,
 - f. Statement of whether the Bidder was the prime contractor or subcontractor, and
 - g. Results of the project.
- 7) Bid Price Form: Complete and submit with bid. **PAGE #** 13 (tab 5)
- 8) Specifications Compliance Checklist: Complete and submit with bid. **PAGE #** 16 (tab 6)
- 9) Fill out, sign, notarize, and submit the Contractor's Affidavit and Schedules A through H. **PAGE #** 20 (tab 7)
- 10) Specifications of the Unit Bid. submit with bid three (3) sets of the following documentation (as required in Section 4, paragraph 4.25 of the IFB): **PAGE #** 30 (tab 8)
 - Product Information Sheets (such as factory specifications, technical specifications, standard manufacturer information sheets, catalogues, and brochures).
 - Performance Tests of the unit offered.

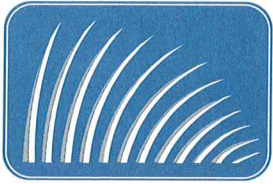
-- NOTICE --**BEFORE SUBMITTING YOUR BID MAKE SURE YOU...**

- 1. Carefully read and have a clear understanding of the IFB, including the Specifications/Scope of Work and enclosed Professional Services Agreement (*draft*).
- 2. Carefully follow the "Submittal Instructions" and "Bid Format" outlined in Section 6 of the IFB and provide a SEPARATE response package. DO NOT INCLUDE A COPY OF THE ORIGINAL SOLICITATION.
- 3. Prepare and submit ONE (1) ORIGINAL BID and THREE (3) PHOTOCOPIES with ONE (1) DIGITAL COPY CD or flash drive.
- 4. Clearly mark the following on the outside of your submittal package: IFB Number, IFB Title, Bidder's Name and Return Address, Submittal Deadline.
- 5. Make sure your bid is submitted prior to the submittal deadline. **Late bids will not be accepted.**

FAILURE TO SUBMIT THIS CHECKLIST AND THE REQUESTED DOCUMENTATION MAY RENDER YOUR BID NON-RESPONSIVE AND CONSTITUTE GROUNDS FOR REJECTION. THESE PAGES MUST BE RETURNED WITH YOUR BID PACKAGE.

Minimum Qualification Requirements
-References

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AQUARIUS SYSTEMS

A Division of D&D Products Inc.

Phone 262-392-2162

Toll Free 800-328-6555

Fax 262-392-2984

Email info@aquarius-systems.com

Web www.aquarius-systems.com

PO Box 215 | 200 North Harrison Street | North Prairie, Wisconsin 53153 U.S.A.

Aquatic Plant Harvesters

Trash Skimmers

Amphibious Excavators

Swamp Devils

Recent Municipal Equipment Supply References

Passaic Valley Sewerage Commission

Brian Davenport

973-466-2714

River Restoration Project Manager

BDavenport@PVSC.COM

TH-34 Trash Hunter in Stainless Steel Configuration - 2017

Contract Value: \$653,145

Milwaukee Metropolitan Sewerage District

Sharon Mertens

Water Quality Protection Director

414-277-6384

smertens@mmsd.com

TH-38 Trash Hunter w/304L Stainless Steel Hull - 2011

Contract Value: \$415,750

River Engineering Ltd.

For the City of Bangkok

Mr. Narittipoom

+66 81 6161141

riverengineering@yahoo.com

Three x TH-34 Trash Hunter – 2015

Contract Value: \$1,359,000

Miami-Dade County DPW

Manuel Hervis,

PWD Superintendent

305-592-3116

Manny.Hervis@miamidade.gov

Four x WT-34 Weed Harvester Canal Boats - 2018

Contract Value: \$915,000

(Eight x WT-34 supplied in previous years)

South Florida Water Management District

Philip White

Senior Fleet Analyst

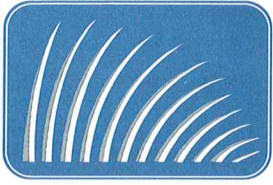
561-682-2182

pwhite@sfwmd.gov

Two x WT-34 Weed Harvester Canal Boats – 2017 & 2011

Total Contract Value: \$432,284 (for the two)

(Eleven x WT-34 supplied in previous years)



**AQUARIUS
SYSTEMS**

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PO Box 215 | 200 North Harrison Street | North Prairie, Wisconsin 53153 U.S.A.

Aquatic Plant Harvesters

| Trash Skimmers

| Amphibious Excavators

| Swamp Devils

February 26, 2019

Yusbel Gonzalez, CPPB
City of Coral Gables, FL
Finance Department / Procurement Division
2800 SW 72nd Avenue
Miami, Florida 33155

Ref: IFB No. 2019-004, Aquatic Weed/Trash Skimmer Vessel

Manufacturer's Declaration

To Whom It May Concern,

We,

Aquarius Systems – A Division of D&D Products, Inc.
200 North Harrison Street
North Prairie, WI 53153

Declare that we are the manufacturer of all Aquarius Systems brand equipment. As the largest and oldest manufacturer of surface water management equipment in the industry, Aquarius continues to forge new relationships for the improvement of water quality worldwide.

Yours Sincerely,

AQUARIUS SYSTEMS

Travis Webb
Technical Product Manager

Work Performed for Coral Gables

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PREVIOUS/CURRENT WORK PERFORMED FOR CORAL GABLES

- NONE

Bid Price Form

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SECTION 7

Invitation for Bids (IFB) No 2019-004

7.0: BID PRICING

Bidder shall provide pricing as structured below, and as described in the Specifications/Scope of Work of this IFB.

Bids should be typed or printed, preferably, in blue. Use of erasable ink is not permitted. All corrections to prices made by the Bidder **must** be **initialed**. Any additional information to be submitted as part of the Bid may be attached to this form.

Award of bid will be made to the lowest responsive responsible bidder who bids on all items and whose bid offers the lowest total price when all items are added in the aggregate; provided the bid price is reasonable and it is in the best interest of the City to accept it. Bidders must bid on all items. Failure to do so may deem your bid non-responsive.

Pricing submitted may not contain price escalations of any kind.

Item	Description	Quantity	Unit of Measure	Unit Price	Extended Amount (Quantity x Unit Price)
1	Aquatic Weed/Trash Skimmer Vessel Manufacturer: <u>Aquarius Systems</u> Model No: <u>TH-12 Trash Hunter</u>	1	Each	\$ <u>323,124.00</u>	\$ <u>323,124.00</u>
2	Trailer for Vessel Transportation Manufacturer: <u>Aquarius Systems</u> Model No: <u>TR-34 Trailer</u>	1	Each	\$ <u>17,790.00</u>	\$ <u>17,790.00</u>
TOTAL					\$ <u>340,914.00</u>

Alternate Options:


Enclosed Cabin with ventilation (no air conditioning) \$ 10,100.00

Enclosed Cabin with air conditioning and ventilation \$ 14,990.00

The City reserves the right to request, after receipt of bids, specifications and drawings for the alternate options priced above.

Provide number of calendar days, from receipt of Purchase Order, for delivery of goods: 90-150 days (refer to Section 4, paragraph 4.28).

Note: Unit Prices shall be F.O.B. Destination (refer to Section 4, paragraph 4.27). Unit prices shall include, but not be limited to, full compensation for labor, any and all equipment used, travel and related expenses and any and all other costs to the Bidder. The City will not pay and/or reimburse any additional costs including, but not limited to, travel, mileage, lodging, meals, and other travel and subsistence expenses.

Authorized Signature:  Title: Technical Product Manager

Print/Type Name: Travis Webb Phone: 262-392-2162

E-mail: travisw@aquarius-systems.com Fax: 262-222-5795

Firm Name: Aquarius Systems - A Division of D&D Products, Inc. F.E.I.N. No: 39-1053448

Address: 200 North Harrison Street City North Prairie State: WI

THE EXECUTION OF THIS FORM CONSTITUTES THE UNEQUIVOCAL OFFER OF THE BIDDER TO BE BOUND BY THE TERMS OF ITS BID. FAILURE TO SIGN THIS BID PRICE FORM WHERE INDICATED ABOVE BY AN AUTHORIZED REPRESENTATIVE OR PROVIDE THE FORM AS PRESENTED MAY RENDER THE BIDDER NON-RESPONSIVE.

Specifications Compliance Checklist

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SECTION 8

Invitation for Bids (IFB) No 2019-004

8.0 SPECIFICATIONS COMPLIANCE CHECKLIST

8.1 For each item listed below, please indicate whether the product bid meets the specific requirement. For items marked "No", please attach an explanation of what is not compliant and what is being provided, if applicable. Per IFB Section 4, paragraph 4.25, documentation must be submitted at time of bid confirming compliance with specification requirements.

Specification Section	Requirements (Summary)	Yes	No
1. Scope and Summary			
1	The Vessel must have the capability and capacity to: (i) pick up and store floating debris; (ii) transfer debris from the vessel to a storage area, which may be ashore or onto another vessel such as a barge.	x	
	The Vessel shall be stable and easily maneuverable in water with a highly corrosive salt environment, simple to operate for collection and discharge operations, and transportable over land by trailer.	x	
	The Vessel shall meet or exceed all United States Coast Guard requirements.	x	
2. Vessel Design			
	Vessel shall be the manufacturer's newest model for the year solicited and shall be equipped with all the necessary equipment and accessories.	x	
2	The Vessel and all components shall be of heavy-duty reinforced construction and shall conform to all Federal, State, Marine, and safety regulations.	x	
	The vessels shall be eligible for State of Florida Marine Vessel Registration.	x	
	All items shall be new and unused, factory installed by the manufacturer or authorized dealer of the manufacturer. Items installed by a dealer shall be factory quality items with factory quality installation.	x	
3. Material Requirement			
3.1	All materials used in the construction of the Vessel shall be marinized (suitable for use in a saltwater environment)	x	
3.2	All metals shall meet the following requirements: a) Metals made up of alloys that do not corrode or resist corrosion. b) Metals that have been electroplated or dipped in a corrosion resistant material. c) Metals that are painted with special anti-rust or anti-corrosion coatings. d) Plastic coated metals. Hull shall be made from materials with the equivalent strength and corrosive resistance as 316 stainless steel hull of 11 gauge thickness.	x	

Specification Section	Requirements (Summary)	Yes	No
4. Performance Requirements			
4.1	Safely navigate forward and reverse with a full load of debris through waterways as narrow as 45 feet wide.	X	
4.2	Must have a maximum vertical clearance of 10 feet above the waterline. Vessel must have a maximum draft of 36 inches. (Nominal Loaded)	X	
4.3	Must be able to complete a 360 degree turn in a waterway no greater than 45 feet wide.	X	
4.4	Must be safely operated by a single operator to manage all functions of the debris skimmer without coming into direct contact with the refuse including self-loading and unloading via a powered system.	X	
4.5	Operate for a minimum of (8) eight continuous operational hours with a full load without the need to refuel or recharge.	X	
4.6	Navigate fully loaded, under wave conditions up to 5 feet with a minimum speed of 2.3 miles/hour (2.0 Knots).	X* see addendum	
5. Vessel Configuration and Components			
5.1	The Vessel must have a permanent structure ("rub rail") on both sides to prevent damage to vessel from rubbing on docks, sea walls, and berthing structures.	X	
5.2	The Operator's platform shall have a shaded cover area and equipped with a seat and console with engine controls monitoring system including warning lights, tachometer and hour meter, and hydraulic controls with pressure gauge, required communication radio, compass, horn, depth finder, radio with weather band, fire extinguisher, and any other required equipment.	X	
5.3	Vessel's Electronics shall meet the following protection methods: a) Fully encapsulated connections in resin or gel to protect from salt air and saltwater; b) Protected from vibrations by specialized mounting of internal parts; c) Special corrosion-resistant solder and corrosion-resistant metals. Bidder's specification documentation shall define in detail the materials used in construction of electronic system of the Vessel.	X	
5.4	Batteries shall meet the following requirements: a) Only Marine Grade Gel VRLA battery(ies) (valve-regulated lead-acid battery) shall be used; b) The battery(ies) must have stronger plates and separators to compensate for constant vibrations and for impacts caused by waves hitting the hull.	X	
5.5	All hydraulics components used shall be manufactured for use in a harsh marine environment. These components may include hydraulic hoses, fittings, pumps, control valves, etc.	X	
6. Powertrain			
6.1	Effective, fuel efficient, low emission, and sustainable propulsion solution to properly power the Vessel. Each propulsion unit must have the capability to be powered up and down over the waterline, allowing for easy clearing of debris from the props or jets in the event they become fouled.	X	

Specification Section	Requirements (Summary)	Yes	No
7. Debris Handling and Collection System			
7.1	Debris material handling system must be able to automatically load floating and semi-submerged debris adjustable to a minimum of 18 inches below the surface of the water into a storage area the vessel.	x	
7.2	Minimum trash load capacity of 10,000 Lb. weight uniformly distributed in main conveyor.	x	
7.3	Width of conveyor collection system shall be a minimum of 30 inches.		
7.4	Must be able to automatically offload collected debris from the storage area to a customer-provided container (truck or dumpster) located a minimum of eight (8) feet beyond the outermost stern of the Vessel.	x	
8. Vessel Transportation			
8.1	Trailer designed for transportation of the Vessel. Trailer shall be fabricated with the appropriate length, width, deck height, skid guides, tongue weight, safety chains, axle capacity, carrying capacity, wheels, tires, springs, mechanical winch, jack, auxiliary brakes, spare tire & wheel; lighting shall conform to US DOT Code.	x	
9. Equipment Training			
9.1	The Successful Bidder agrees to provide operator training to City staff. The training will be provided by a competent trainer for activities to take place within the City.	x	

IFB Response Forms

-Contractor's Affidavit & Schedules A – H

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CONTRACTOR'S AFFIDAVIT

SUBMITTED TO: City of Coral Gables
 Procurement Division
 2800 SW 72 Avenue
 Miami, Florida 33155

The undersigned acknowledges and understands the information contained in response to this IFB Schedules A through H shall be relied upon by Owner awarding the contract and such information is warranted by Contractor to be true and correct. The discovery of any omission or misstatements that materially affects the Contractor to perform under the contract shall be cause for the City to reject the solicitation submittal, and if necessary, terminate the award and/or contract. I further certify that the undersigned name(s) and official signatures of those persons are authorized as (*Owner, Partner, Officer, Representative or Agent of the Contractor that has submitted the attached Response*). Schedules A through H are subject to Local, State and Federal laws (as applicable); both criminal and civil.

- SCHEDULE A – CERTIFICATE OF BIDDER
- SCHEDULE B – NON-COLLUSION AND CONTINGENT FEE AFFIDAVIT
- SCHEDULE C – DRUG-FREE STATEMENT
- SCHEDULE D – BIDDER'S QUALIFICATION STATEMENT
- SCHEDULE E – CODE OF ETHICS, CONFLICT OF INTEREST, AND CONE OF SILENCE
- SCHEDULE F – AMERICANS WITH DISABILITIES ACT (ADA)
- SCHEDULE G – PUBLIC ENTITY CRIMES
- SCHEDULE H – ACKNOWLEDGEMENT OF ADDENDA

This affidavit is to be furnished to the City of Coral Gables with its IFB response. It is to be filled in, executed by the Contractor and notarized. If the Response is made by a Corporation, then it should be executed by its Chief Officer. This document MUST be submitted with the Response.



 Authorized Name and Signature

Technical Product Manager

 Title

2/26/19

 Date

STATE OF Wisconsin

COUNTY OF Waukesha

On this 26 day of February, 20 19, before me the undersigned Notary Public of the State of WI, personally appeared Travis Webb
(Name(s) of individual(s) who appeared before Notary

And whose name(s) is/are subscribes to within the instrument(s), and acknowledges it's execution.

Tina L Roder
NOTARY PUBLIC, STATE OF WI

TINA L Roder
(Name of notary Public; Print, Stamp or Type as Commissioned.)

NOTARY PUBLIC
SEAL OF OFFICE:



Personally know to me, or Produced Identification:

(Type of Identification Produced)

SCHEDULE "A" - CITY OF CORAL GABLES - CERTIFICATE OF BIDDER

Neither I, nor the firm, hereby represent has:

- a. employed or retained for a commission, percentage brokerage, contingent fee, or other consideration, any firm or person (other than a bona fide employee working solely for me or the Contractor) to solicit or secure this contract.
- b. agreed, as an express or implied condition for obtaining this contract, to employ or retain the services of any firm or person in connection with carrying out the contract, or
- c. paid, or agreed to pay, to any firm, organization or person (other than a bona fide employee working solely for me or the Contractor) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the contract except as here expressly stated (if any):

SCHEDULE "B" - CITY OF CORAL GABLES - NON-COLLUSION AND CONTINGENT FEE AFFIDAVIT

1. He/she is the Representative
(Owner, Partner, Officer, Representative or Agent)

of the Contractor that has submitted the attached Response.

2. He/she is fully informed with respect to the preparation and contents of the attached Response and of all pertinent circumstances respecting such Response;

3. Said Response is made without any connection or common interest in the profits with any other persons making any Response to this solicitation. Said Response is on our part in all respects fair and without collusion or fraud. No head of any department, any employee or any officer of the City of Coral Gables is directly or indirectly interested therein. If any relatives of Contractor's officers or employees are employed by the City, indicate name and relationship below.

Name: _____ Relationship: _____

Name: _____ Relationship: _____

4. No lobbyist or other contractor is to be paid on a contingent or percentage fee basis in connection with the award of this Contract.

SCHEDULE "C" - CITY OF CORAL GABLES - VENDOR DRUG-FREE STATEMENT

Preference may be given to vendors submitting a certification with their bid/proposal certifying they have a drug-free workplace in accordance with Section 287.087, Florida Statutes. This requirement affects all public entities of the State and becomes effective January 1, 1991. The special condition is as follows:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under solicitation a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under solicitation, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section. As the person authorized to sign the statement, I certify that this form complies fully with the above requirements.

The company submitting this solicitation has established a Drug Free work place program in accordance with Sate Statute 287.087

SCHEDULE "D" – CITY OF CORAL GABLES - BIDDER'S QUALIFICATION STATEMENT

The undersigned declares the truth and correctness of all statements and all answers to questions made hereinafter:

Company Name: Aquarius Systems - A Division of D&D Products, Inc.

Address: 200 North Harrison Street North Prairie WI 53153
Street City State Zip Code

Telephone No: (262)392-2162 Fax No: (262)222-5795 Email: travisw@aquarius-systems.com

How many years has your organization been in business under its present name?55Years

If Contractor is operating under Fictitious Name, submit evidence of compliance with Florida Fictitious Name Statue:

Under what former names has your business operated? : D&D Products, Inc.

At what address was that business located? 200 North Harrison Street, North Prairie, WI 53153

Are You Certified? Yes x No _____ If Yes, **ATTACH COPY** of Certification.
Are You Licensed? Yes x No _____ If Yes, **ATTACH COPY** of License

Has your company or its senior officers ever declared bankruptcy?

Yes _____ No x If yes, explain: _____

Please identify each incident within the last five (5) years where (a) a civil, criminal, administrative, other similar proceeding was filed or is pending, if such proceeding arises from or is a dispute concerning the Contractor's rights, remedies or duties under a contract for the same or similar type services to be provided under this IFB:

N/A

Have you ever been debarred or suspended from doing business with any government entity?

Yes ___ No x If Yes, explain

SCHEDULE "E" – CITY OF CORAL GABLES - CODE OF ETHICS, CONFLICT OF INTEREST, AND CONE OF SILENCE

THESE SECTIONS OF THE CITY CODE CAN BE FOUND ON THE CITY'S WEBSITE, UNDER GOVERNMENT, CITY DEPARTMENT, PROCUREMENT, PROCUREMENT CODE (CITY CODE CHAPTER 2 ARTICLE VIII); SEC 2-1023; SEC 2-606; AND SEC 2-1027, RESPECTIVELY.

IT IS HEREBY ACKNOWLEDGED THAT THE ABOVE NOTED SECTIONS OF THE CITY OF CORAL GABLES CITY CODE ARE TO BE ADHERED TO PURSUANT TO THIS SOLICITATION.

SCHEDULE "F" - CITY OF CORAL GABLES - AMERICANS WITH DISABILITIES ACT (ADA) DISABILITY NONDISCRIMINATION SWORN STATEMENT

I understand that the above named firm, corporation or organization is in compliance with and agreed to continue to comply with, and assure that any sub-contractor, or third party contractor under this project complies with all applicable requirements of the laws listed below including, but not limited to, those provisions pertaining to employment, provision of programs and service, transportation, communications, access to facilities, renovations, and new construction.

The American with Disabilities Act of 1990 (ADA), Pub. L. 101-336, 104 Stat 327, 42 U.S.C. 12101,12213 and 47 U.S.C. Sections 225 and 661 including Title I, Employment; Title 11, Public Services; Title III, Public Accommodations and Services Operated by Private Entities; Title IV, Telecommunications; and Title V, Miscellaneous Provisions.

The Florida Americans with Disabilities Accessibility Implementation Act of 1993, Sections 5553.501-553.513, Florida Statutes

The Rehabilitation Act of 1973, 229 U.S.C. Section 794

The Federal Transit Act, as amended, 49 U.S.C. Section 1612

The Fair Housing Act as amended, 42 U.S.C. Section 3601-3631

SCHEDULE "G" - CITY OF CORAL GABLES - STATEMENT PURSUANT TO SECTION 287.133 (3) (a), FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

1. I understand that a "public entity crime" as define in Paragraph 287.133(1)(g), **Florida Statutes**, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or of the United States, including, but not limited to, any Proposal or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
2. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), **Florida Statutes**, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non-jury trial, or entry of a plea of guilty or nolo contendere.

3. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), **Florida Statutes**, means:
1. A predecessor or successor of a person convicted of a public entity crime; or 2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.
4. I understand that a "person" as defined in Paragraph 287.133(1)(e), **Florida Statutes**, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which Proposals or applies to Proposal on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.
5. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. **[indicate which statement applies.]**

Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list.

[attach a copy of the final order]

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, FLORIDA STATUTES FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

SCHEDULE "H" - CITY OF CORAL GABLES - ACKNOWLEDGEMENT OF ADDENDA

1. The undersigned agrees, if this IFB is accepted, to enter in a Contract with the CITY to perform and furnish all work as specified or indicated in the IFB and Contract Documents within the Contract time indicated in the IFB and in accordance with the other terms and conditions of the solicitation and contract documents.
2. Acknowledgement is hereby made of the following Addenda, if any (identified by number) received since issuance of the Invitation for Bid.

Addendum No. 1 Date 2/21/19

Addendum No. Date

Addendum No. Date

Addendum No. Date

Addendum No. Date

Addendum No. Date

Wisconsin Business Tax Registration Certificate

Expiration date: April 30, 2020

Legal/real name: D & D PRODUCTS INCORPORATED

- This certificate confirms that you are registered with the Wisconsin Department of Revenue for the tax types shown below.
- This registration certificate is not a seller's permit, and should not be used as proof that you hold a seller's permit.
- You may not transfer this certificate to any other individual or business.

Tax Type

Sales & Use Tax
Withholding Tax

Account Type

Sales & Use Tax
Withholding Tax

Number

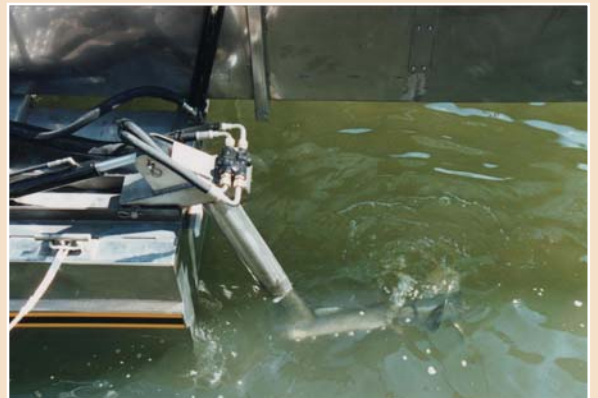
456-0000286605-03
036-0000286605-04

floating trash & debris skimmers



Trash Hunters are the ideal tool for removing floatable debris from harbors, rivers and other waterways plagued with unsightly hazards. The Trash Hunters easily retrieve a wide variety of manmade and naturally occurring debris including floating litter, old tires, timber, branches and logs.

Floating debris is captured by the pick up head as hydraulically operated conveyors bring the material up onto the machine. The refuse is then dropped onto another automated conveyor in the ample storage container. Once the storage hold is full, the adjustable stern conveyor aids in discharging the load at shore. Twin independently operated, bi-directional hydraulic propellers provide propulsion for the Trash Hunters.



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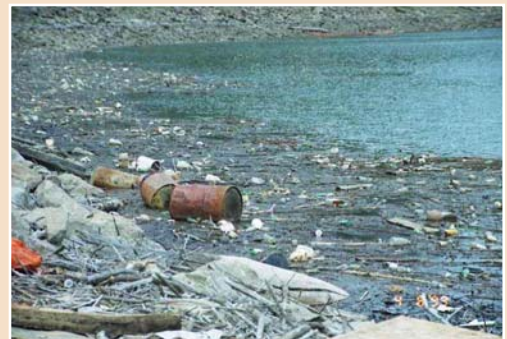
floating trash & debris skimmers



Floating litter and debris present tremendous problems worldwide. This unsightly nuisance negatively impacts tourism, contaminates water supply reservoirs, poses a significant navigational hazard, and promotes the propagation of insects bearing infectious diseases.



Trash skimmers rescue waterways and make them safe for public use and consumption again.



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floating trash & debris skimmers



The Trash Hunters are available in a variety of configurations including standard carbon steel construction, stainless steel hull only, or all stainless steel construction. Considerations such as water salinity are a major factor in deciding which configuration will best suit

your needs; 304L stainless is appropriate for freshwater use, while 316L stainless steel construction is required for working in seawater applications.



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floating trash & debris skimmers



Standard Trash Hunters feature an elevated pilot house located over the storage hold for maximum visibility. An optional low profile configuration is also available if clearing low-hanging overhead obstructions are a concern.



Complete instrumentation and hydrostatic hydraulics make handling the skimmer a simple task for a single operator. Twin hydraulic propellers - the most efficient propulsion system available for both speed and performance - power the trash collectors.

A wide selection of amenities are available to lend to the comfort of the operator. Aluminum cabs complete with heat, air conditioning, am/fm radio with cassette or CD player, GPS units, marine radios, dual sliding doors and tinted safety glass are a popular option. Many other specialty and custom designed options are also offered.



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floating trash & debris skimmers



With fully adjustable collection flares, Trash Hunters sweep the surface of the water collecting floating garbage and conveying the load on board. The adjustable collection flares on the pick up head can be closed tight to capture debris and help funnel it onto the pick up conveyor, or opened wide for a broad sweeping swath.

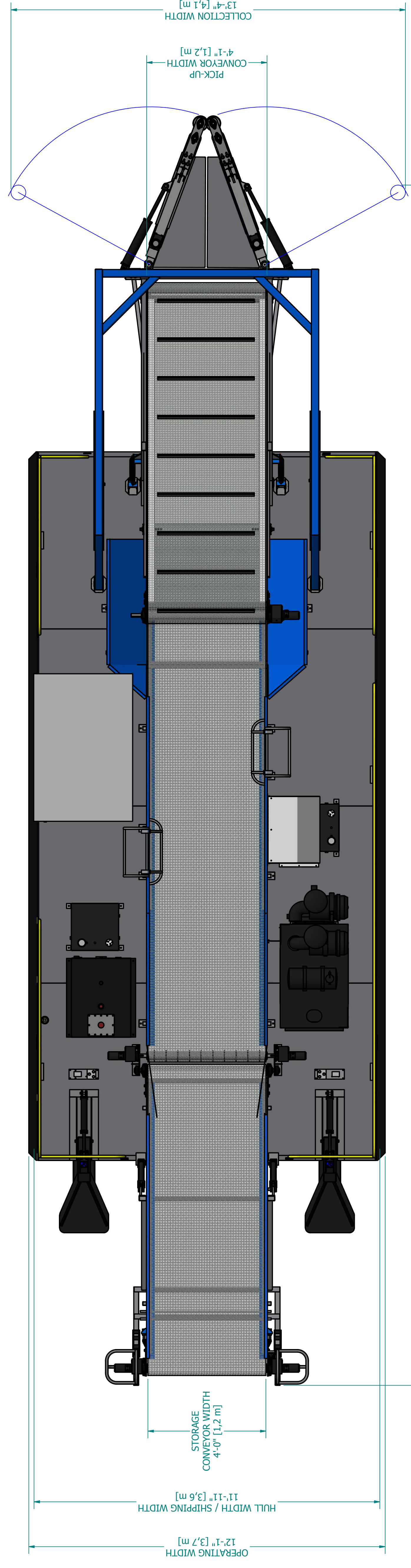
A typical application includes the retrieval of organic debris such as branches and logs. For this purpose, optional log grabbers are available to effectively capture debris or to grab a single piece of timber and transport it to shore. Optional water jets can also help in directing debris onto the pick up conveyor. Collection flares with optional revolving conveyors are yet another option to assist in directing debris onto the pick up conveyor.



**AQUARIUS
SYSTEMS**
A Division of D&D Products Inc.

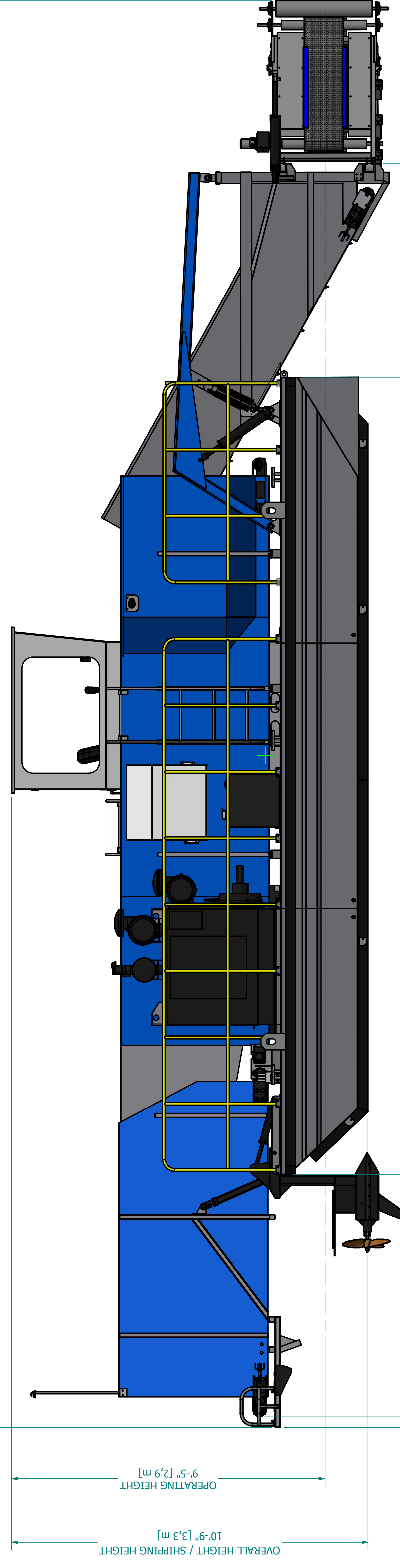
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- TH-12 TRASH HUNTER**
- * 316 STAINLESS STEEL, 11 GA. BARGE
 - * STAINLESS PICK-UP CONVEYOR
 - * UHMW WEAR STRIPS BELOW BELTING ON PICK-UP CONVEYOR
 - * UHMW WEAR SHEETS BELOW BELTING ON STORAGE CONVEYORS
 - * STAINLESS CYLINDER RODS
 - * STORAGE: 500 CU-FT. / 10,000 LBS.
 - * COLLECTION WING W/ CONVEYOR
 - * HYDRAULIC TIPPING PROPS
 - * DRAFT EMPTY: 15"
 - * DRAFT W/ 10,000 LBS: 23"
 - * PLASTIC RUB RAILS ON BOTH SIDES OF BARGE
 - * SHOWN W/ OPTIONAL PILOT HOUSE



LENGTH W/ WINGS OPEN 40'-8" [12,4 m]

OVERALL LENGTH 44'-0" [13,4 m]



<p>AQUARIUS SYSTEMS A DIVISION OF END PRODUCTS, INC.</p>		<p>MATERIAL: RICHARD ROBERTS</p> <p>DRAWN: 2/25/2019</p> <p>APPROVED BY:</p>	
<p>UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE AS NOTED BELOW:</p> <p>1 PLACE XXX ± 0,30</p> <p>2 PLACE XXX ± 0,15</p> <p>3 PLACE XXX ± 0,05</p> <p>4 PLACE XXX ± 0,025</p> <p>ANGLES °</p>		<p>PROJ: CITY OF CORAL GABLES</p> <p>TITLE: GENERAL ARRANGEMENT</p> <p>REV: 0</p> <p>SCALE: NTS</p> <p>WEIGHT: N/A</p> <p>SHEET: 1 OF 2</p>	
<p>PROJ: CITY OF CORAL GABLES</p> <p>TITLE: GENERAL ARRANGEMENT</p> <p>REV: 0</p> <p>SCALE: NTS</p> <p>WEIGHT: N/A</p> <p>SHEET: 1 OF 2</p>			

PROJ: CITY OF CORAL GABLES

TITLE: GENERAL ARRANGEMENT

REV: 0

SCALE: NTS

WEIGHT: N/A

SHEET: 1 OF 2

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE AS NOTED BELOW:

1 PLACE XXX ± 0,30

2 PLACE XXX ± 0,15

3 PLACE XXX ± 0,05

4 PLACE XXX ± 0,025

ANGLES °

PROJ: CITY OF CORAL GABLES

TITLE: GENERAL ARRANGEMENT

REV: 0

SCALE: NTS

WEIGHT: N/A

SHEET: 1 OF 2

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE AS NOTED BELOW:

1 PLACE XXX ± 0,30

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ANGLES °

PROJ: CITY OF CORAL GABLES

TITLE: GENERAL ARRANGEMENT

REV: 0

SCALE: NTS

WEIGHT: N/A

SHEET: 1 OF 2

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE AS NOTED BELOW:

1 PLACE XXX ± 0,30

2 PLACE XXX ± 0,15

3 PLACE XXX ± 0,05

4 PLACE XXX ± 0,025

ANGLES °

PROJ: CITY OF CORAL GABLES

TITLE: GENERAL ARRANGEMENT

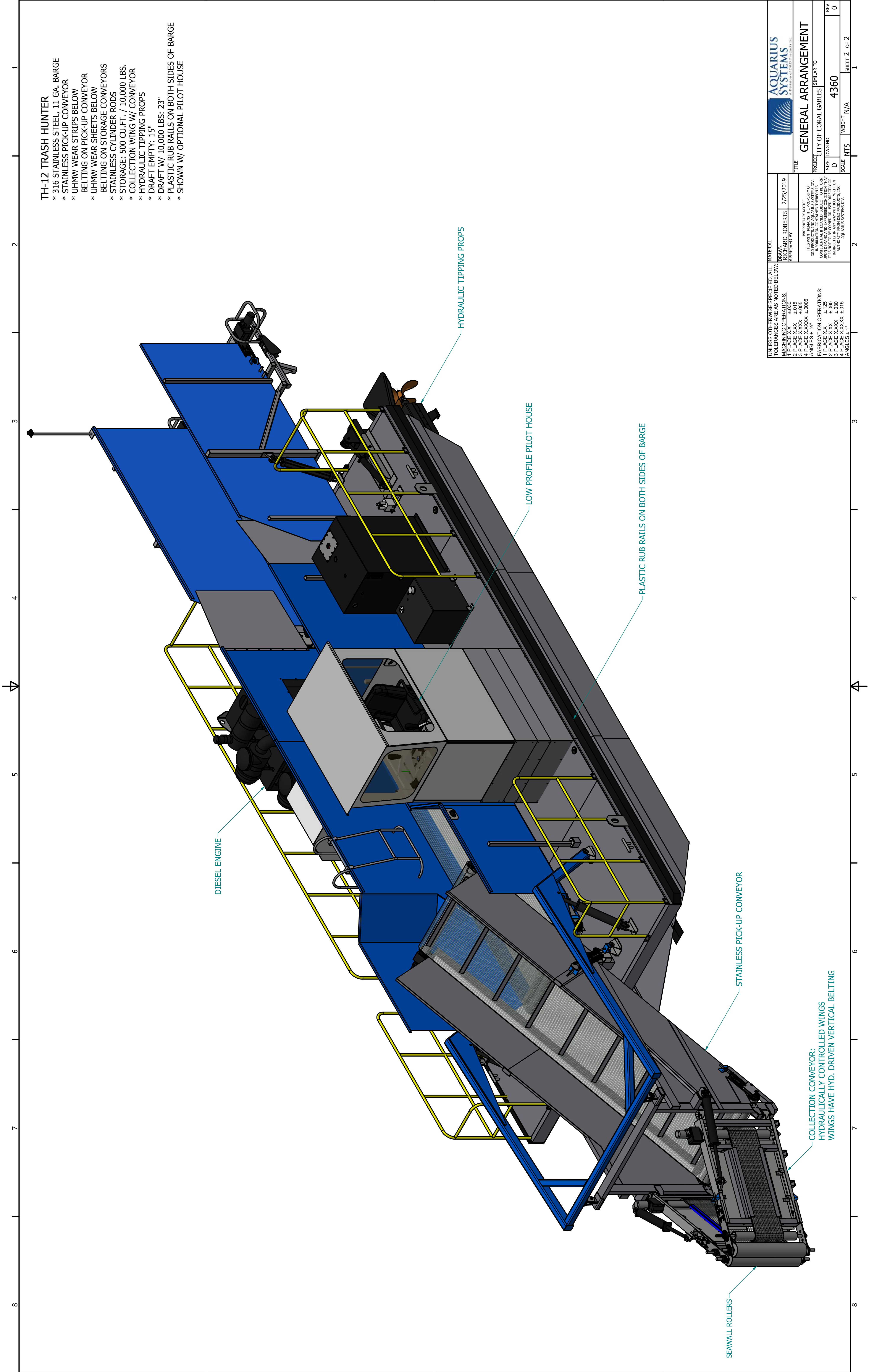
REV: 0

SCALE: NTS

WEIGHT: N/A

SHEET: 1 OF 2

- TH-12 TRASH HUNTER**
- * 316 STAINLESS STEEL, 11 GA. BARGE
 - * STAINLESS PICK-UP CONVEYOR
 - * UHMW WEAR STRIPS BELOW BELTING ON PICK-UP CONVEYOR
 - * UHMW WEAR SHEETS BELOW BELTING ON STORAGE CONVEYORS
 - * STAINLESS CYLINDER RODS
 - * STORAGE: 500 CU.FT. / 10,000 LBS.
 - * COLLECTION WING W/ CONVEYOR
 - * HYDRAULIC TIPPING PROPS
 - * DRAFT EMPTY: 15"
 - * DRAFT W/ 10,000 LBS: 23"
 - * PLASTIC RUB RAILS ON BOTH SIDES OF BARGE
 - * SHOWN W/ OPTIONAL PILOT HOUSE



DIESEL ENGINE

HYDRAULIC TIPPING PROPS

LOW PROFILE PILOT HOUSE

PLASTIC RUB RAILS ON BOTH SIDES OF BARGE

STAINLESS PICK-UP CONVEYOR

COLLECTION CONVEYOR:
HYDRAULICALLY CONTROLLED WINGS
WINGS HAVE HYD. DRIVEN VERTICAL BELTING

SEAWALL ROLLERS

GENERAL ARRANGEMENT	
PROJECT: CITY OF CORAL GABLES	SIMILAR TO:
SIZE: DWG NO 4360	REV: 0
SCALE: NTS	WEIGHT: N/A
SHEET 2 OF 2	

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE AS NOTED BELOW:

TOLERANCES:

1 PLACE XXX ± 0.030

2 PLACE XXX ± 0.015

3 PLACE XXX ± 0.005

4 PLACE XXX ± 0.002

ANGLES:

1 PLACE XX ± 1.00

2 PLACE XX ± 0.60

3 PLACE XXX ± 0.30

4 PLACE XXX ± 0.15

FABRICATION OPERATIONS:

1 PLACE XX ± 1.25

2 PLACE XXX ± 0.60

3 PLACE XXX ± 0.30

4 PLACE XXX ± 0.15

MATERIAL APPROVED BY: RICHARD ROBERTS 2/25/2019

REVISIONS:

1 PLACE XXX ± 0.015

2 PLACE XXX ± 0.005

3 PLACE XXX ± 0.005

4 PLACE XXX ± 0.005

REVISIONS:

1 PLACE XXX ± 0.015

2 PLACE XXX ± 0.005

3 PLACE XXX ± 0.005

4 PLACE XXX ± 0.005

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TH-12 TRASH HUNTER

SPECIFICATIONS		IMPERIAL	METRIC
DIMENSIONS	Operating Length, Max Overall	44' 0"	13,4 meters
	Operating Width, with Rub Rail	12' 1" to 13' 4"	3,7 to 4,1 meters
	Operating Height	9'-5"	2,9 meters
	Shipping Length	38'-1"	11,6 meters
	Shipping Width, with / without Rub Rail	12'-1" / 11' 11"	3,7 meters / 3,6 meters
	Shipping Height	10'-9"	3,3 meters
	Overall Weight	17,000 lbs.	7711 kg
FLOTATION	Hull Length	24'-0"	7,3 meters
	Hull Width, Overall, without Rub Rail	11' 11"	3,6 meters
	Hull Height	2' 4"	0,7 meters
	Compartments	4 Airtight / watertight compartments	4 Airtight / watertight compartments
	Draft, Empty / Draft, Fully Laden	15" empty / 23" fully laden	38 cm empty / 58 cm fully laden
POWER SOURCE	Engine	Heavy duty diesel, Minimum 70 h.p.	Heavy duty diesel, Minimum 52 kW
	Engine Protection	Low oil & high temperature shutdown	Low oil & high temperature shutdown
HYDRAULICS	Hydraulic System	Variable displacement & other pumps	Variable displacement & other pumps
	Hydraulic Oil	Clarion 46 - environmentally safe, marine grade	Clarion 46 - environmentally safe, marine grade
	Hydraulic Reservoir Capacity	60 gallons w/ temperature & level gauge	227 liters w/ temperature & level gauge
	Hydraulic Filters	Multiple with 25 and 10 micron protection	Multiple with 25 and 10 micron protection
	Hydraulic System Protection	Oil Cooler, Relief valves & low oil sensor	Oil Cooler, Relief valves & low oil sensor
CONTROL BRIDGE	Location	Port side next to storage conveyor	Port side next to storage conveyor
	Instrumentation & Controls	Levers, gauges, warning lights & alarms	Levers, gauges, warning lights & alarms
	Pilot House	Optional aluminum cab with tinted windows	Optional aluminum cab with tinted windows
	Seats for Operator	Padded vinyl captain's chair	Padded vinyl captain's chair
	Operator Protection	All hydraulic lines/valves enclosed & shielded	All hydraulic lines/valves enclosed & shielded
	Vessel Lighting	International navigational vessel lighting	International navigational vessel lighting
PICK UP HEAD	Style	Adjustable collection flares	Adjustable collection flares
	Collection Swath, Width	0" to 13' 4"	0 to 4,1 meters
	Collection Depth, Max	1'-6" deep	46 cm deep
	Impact Protection	Swing suspension and hydraulic relief valves	Swing suspension and hydraulic relief valves
	Conveyor Belting, with flights	1" x 1" heavy duty stainless steel mesh with UHMWPE wear strips	25 mm x 25 mm heavy duty stainless steel mesh with UHMWPE wear strips
STORAGE CONTAINER	Capacity, Volume / Weight	500 cubic feet / 10,000 lbs.	14,2 cubic meters / 4535 kg
	Conveyor Belting	1" x 1" heavy duty stainless steel mesh	25mm x 25mm heavy duty stainless steel mesh
	Conveyor Lining	Ultra High Molecular Weight Polyethylene Sheets	Ultra High Molecular Weight Polyethylene Sheets
	Discharge Distance from Stern	8'-0"	2,4 meters
	Propulsion System & Location	Twin hydraulic propellers, stern mounted	Twin hydraulic propellers, stern mounted
PROPULSION	Operation	Independent, forward & reverse	Independent, forward & reverse
	Vessel Speed, transiting	0 to 6 MPH	0 to 9,66 KPH
FABRICATION	Hull Material	316 Stainless Steel	316 Stainless Steel
	Frame	Stainless Steel	Stainless Steel
	Fasteners	Stainless steel 18/8 throughout	Stainless steel 18/8 throughout







dc water is life

45 B32

42 B35

dc water is life

dcwater.com

NO SWIMMING
OR BOATING

SEEK PERMIT



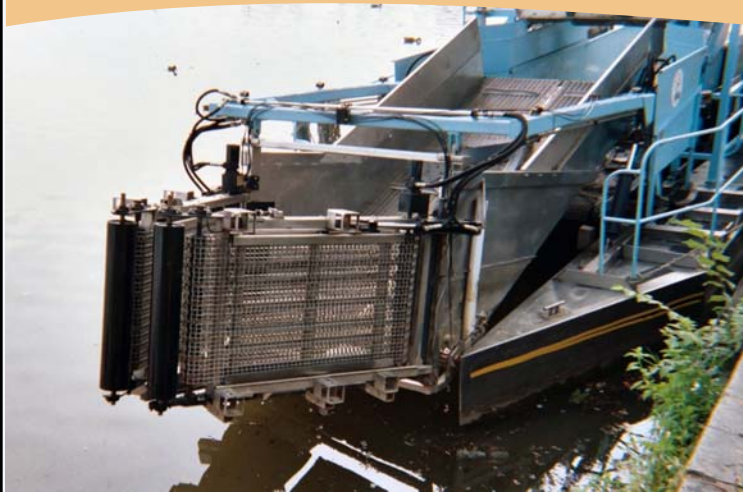


option - collection wings

Aquarius Systems understands that every application for a Trash Hunter is unique, so we offer a variety of collection wing options for our clients.

All wing styles are multi-purpose but each one has features to enhance their function.

For lighter debris like plastics and Styrofoam, or heavy logs and tires, or a combination of both, there is an wing option that will best suit your needs.



The standard collection wing is a **Solid Steel** design that can tolerate abuse from heavy debris like logs and trees (shown above).

Heavy duty **ConveyORIZED Steel Belting** is also available as collection wing material. It is ideal for lighter weight debris that may benefit from additional momentum (shown left).

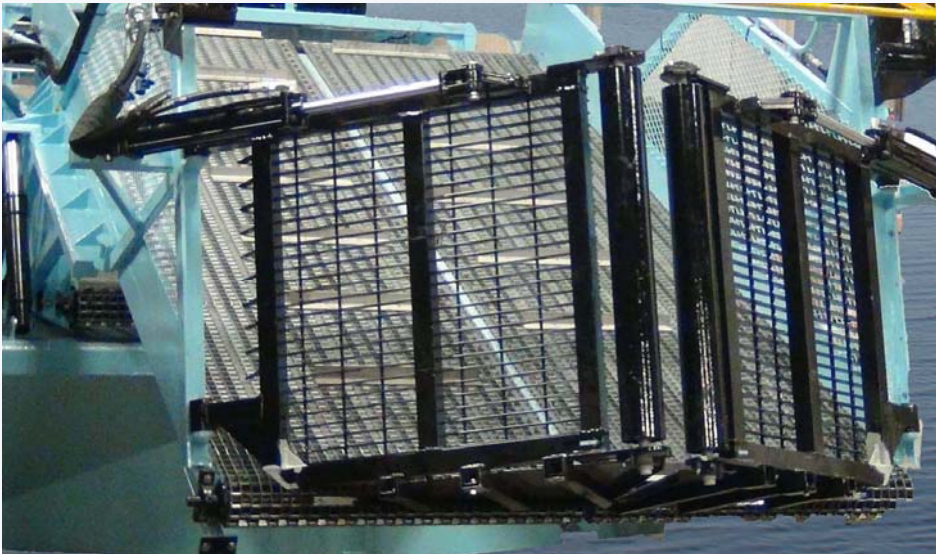


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option - collection wings



The **Combination Wings** have both heavy duty conveyor mesh and solid steel construction. They provide the strength to collect heavier materials like tree limbs, and include conveyORIZED mesh at the water line to aid in the collection of lightweight floatables. The conveyor belting is designed for quick change-out and repair when necessary.



The heavy duty **Perforated Steel Grid** collection wing allows water to pass through it to assist in capturing light weight debris.

While it is porous, the steel framing also provides strength with no moving parts to stand up against heavy debris like logs or car tires.



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Options Catalog

TRASH SKIMMERS



A Guide to Upgrades & Options Available on
Trash Skimming Equipment



Cabs & Pilot Houses

Aluminum operator cabs are standard on all trash skimmers. Cabs typically feature tinted safety glass, one or two access doors, windshield wiper and electric fan. Cabs can be fixed to the bridge or designed to hydraulically tilt down or backwards into the storage hold for easy over-the-road transportation (see below).

Standard on: all trash skimmers



Cabs - Outfitting & Appointments

Optional operator cabs / pilot houses can be outfitted with many amenities including air conditioning, heating, dual operator seats, AM/FM radio (with cassette or CD player), marine radios, marine hailers, marine horns, global positioning systems, spot lights, amber strobe lights, high lumen work lights and many other custom appointments.

Available on: all trash skimmers



Cabs - Hydraulically Tilting or Hydraulically Retractable

For ease of transportation over-the-road, optional operator cabs can be built to hydraulically tilt backwards into the storage hold conveyor (*three photos at top left*), OR hydraulically raise and lower (*two photos at bottom left*).



Available on: all trash skimmers

Cabs / Pilot House Platforms, Fixed Alternate Height



Trash skimmers are designed with operator platforms mounted at a predetermined height to provide maximum visibility. The standard design of most machines can be modified and the platform permanently mounted in a lower position. Client must provide to us in writing (at the time of order) the measurement from the bottom of the obstruction to the surface of the water. Any special conditions or circumstances – such as water fluctuations – should also be provided in writing.

Available on: all trash skimmers



Cabs / Pilot House Platforms, Hydraulically Adjustable Height

For clients who want to maintain optimum visibility AND have the flexibility to pass beneath low obstructions, we offer hydraulically adjustable operator platforms. Hydraulic cylinders and slide guides are used to raise and lower the platform to the desired height, while the trash skimmer remains completely functional.

Available on: all trash skimmers



Cabs / Pilot House Platforms, Low Profile Configuration

Trash skimmers are also available in a low profile configuration with the operator cab mounted to the side of the storage hold conveyor, as pictured at left.

Available on: all trash skimmers



Canopies

Bimini canopies are also available on all trash skimmers (in place of the standard operator cabs). These extra large canopies cover the entire control platform, protecting the operator from the elements. Bimini canopies are easily collapsed for storage.

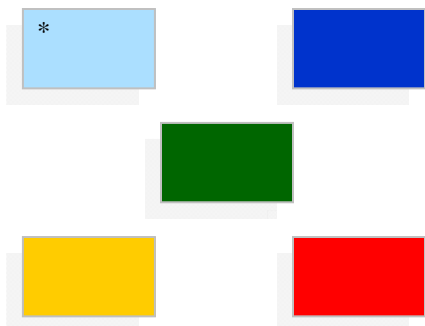
Available on: all trash skimmers



Central Greasing System

All trash skimmers can be fitted with an optional central greasing system that is plumbed to nearly all the bearings on the vessel. This system automatically lubricates the bearings on demand, and can save up to an hour a day in maintenance time.

Available on: all trash skimmers



Color Options

Standard equipment is manufactured in carbon steel, then sandblasted and finished in high quality marine finish. A wide variety of colors are available to choose from or we can match your custom color. If no preference is stated, standard Aquarius colors* will be provided. Custom colors typically available at no charge; please provide paint chip at time of order. Custom paint specifications or formulas may result in an up charge.

Available on: all trash skimmers



Controls - Hydraulic Functions

Trash skimmers typically feature a hydrostatic hydraulic system. With this system, operator controls are available in a combination of joystick handle and/or foot pedal configurations – the number and location of which are easily customized. If no preference is stated, standard set up will be supplied.

Available on: all trash skimmers



Conveyor Belting

Standard conveyor mesh supplied on all trash skimmers is 1" x 1" (25 mm x 25 mm) heavy duty galvanized flat wire belting. Belting can be upgraded to optional heavy duty stainless steel mesh.

For unique tasks, 1" x ½" (25 mm x 13 mm) mesh is also available.

Please note that UHMW wear strips are strongly recommended for use with optional stainless steel conveyor mesh.

(Standard duty belting pictured top left, heavy duty belting at left.)



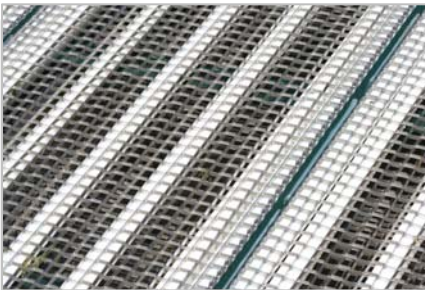
Available on: all trash skimmers



Conveyor Flights / Cleats

Angled flights or cleats are attached to the conveyor belting on the pick up head to assist in collecting floating trash or other challenging debris. Flights and cleats serve to prevent debris from rolling back into the water, and greatly improve the collection efficiency of the trash skimmer.

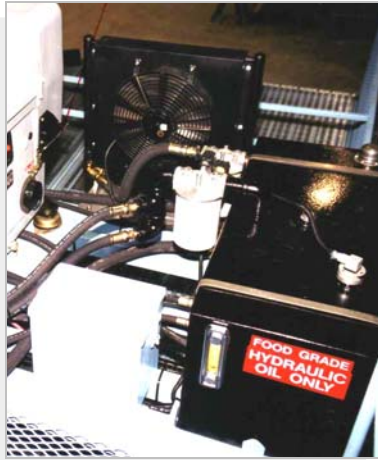
Standard on: all trash skimmers



Conveyor Mesh, UHMW Wear Guards

Ultra high molecular weight (UHMW) polyethylene wear strips are attached to the top of the pick up and storage hold conveyor frames – directly underneath the conveyor mesh – to reduce wear on the metal framework caused by the revolving mesh. UHMW wear strips are strongly recommended for use with optional stainless steel conveyor mesh.

Standard on: all trash skimmers



Hydraulic Fluid & Hydraulic System Cooling Fans

Mineral based CITGO AQUAMARINE[®] hydraulic fluid, specially formulated for aquatic environments, is standard on all equipment. Standard viscosity utilized is 46; higher viscosity (68) may be appropriate in warmer climates. Alternate requests may result in an up charge and are subject to approval by Aquarius Systems and/or its hydraulic component suppliers.

In warmer climates, hydraulic system cooling fans may be required to maintain acceptable operating temperature ranges.

Available on: all trash skimmers

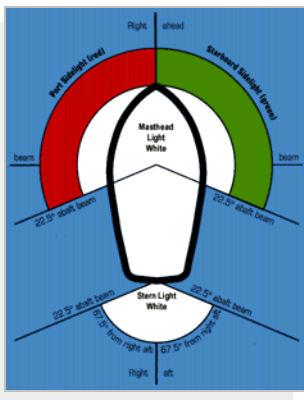


Log Grabbers

Trash skimmers can be fitted with removable log grabbers to assist in capturing larger debris such as logs and timber.



Available on: all trash skimmers



Navigational Lighting

Navigational lighting in compliance with international maritime safety codes is available on all vessels.

Available on: all trash skimmers



Propulsion

Propulsion and steering on all standard trash skimmers is provided by twin hydraulic propellers – one mounted on either side at the stern.

Alternate propulsion systems such as hi speed water jet systems are available as an upgrade on larger trash skimmers.



Standard on: all trash skimmers



Safety Equipment Kits

Safety equipment kits are available with all equipment and include two 50' (15 meter) nylon lines, two life vests, one ring buoy with a 50' (15 meter) line & mounting hook, one lung powered signal horn, one distress flag and a first aid kit.

Available on: all trash skimmers



Seats, Operator

All standard trash skimmers include one heavy duty vinyl operator seat. On medium and larger sized trash skimmers, a second passenger seat can be added.

Available on: all trash skimmers



Spare Parts Kits, Extended

The purchase of a trash skimmer includes a standard spare parts kit with 1 hydraulic oil filter, 1 set of miscellaneous fasteners, 1 engine oil filter, 1 hydraulic gauge, 1 hydraulic motor seal kit, a multi purpose ABC fire extinguisher, 1 grease gun with grease and a tool kit with tools. Extended one year, two year, three year and five year spare parts kits are available. Call for details.

Available on: all trash skimmers



Spud Anchors

Spud anchors can be added to most equipment to help moor the vessels securely.

Available on: all trash skimmers

Stainless Steel Configurations



Standard trash skimmers are built using carbon steel and finished with high quality marine paint. As an option, all equipment can be ordered in a variety of stainless steel configurations. Prices vary by model, grade of steel and level.

LEVEL 1 – Hull is fabricated using 304L* grade stainless steel material and the balance of the machine in carbon steel.

LEVEL 2 – Hull, pick up head frame and storage hold frames are fabricated using 304L* grade stainless steel material. (Stainless steel conveyor mesh, stainless steel fittings, etc. are not included in the Level 2 package.)

LEVEL 3 – Hull is fabricated using 316L* grade stainless steel material and the balance of the machine in carbon steel.

LEVEL 4 – Hull, pick up head frame, storage hold frames and all other fabricated parts are made using 316L* grade stainless steel material. The Level 4 package includes stainless steel hydraulic fittings, stainless steel (standard duty) conveyor mesh, etc.



Available on: all trash skimmers



Wash Down Pumps

Portable gasoline powered wash down pumps are available to assist in cleaning the equipment. These pumps include a 50' (15 meter) hose with nozzle.

Available on: all trash skimmers



Water Jets

In addition to log grabbers, water jets can be added to assist in the capture of lighter weight debris.

Available on: all trash skimmers

standard trailers



Standard Trailers haul equipment between work sites, then launch and retrieve it from the water.

These heavy duty trailers are designed to assure stability when hauling equipment at moderate highway speeds. Standard features includes a heavy duty towing hitch and safety chains, 6-prong adapter, electric brakes, brake-away safety system, leaf spring axles, electric winch with fairlead, integrated D.O.T. compliant lighting and lighted license plate holder.



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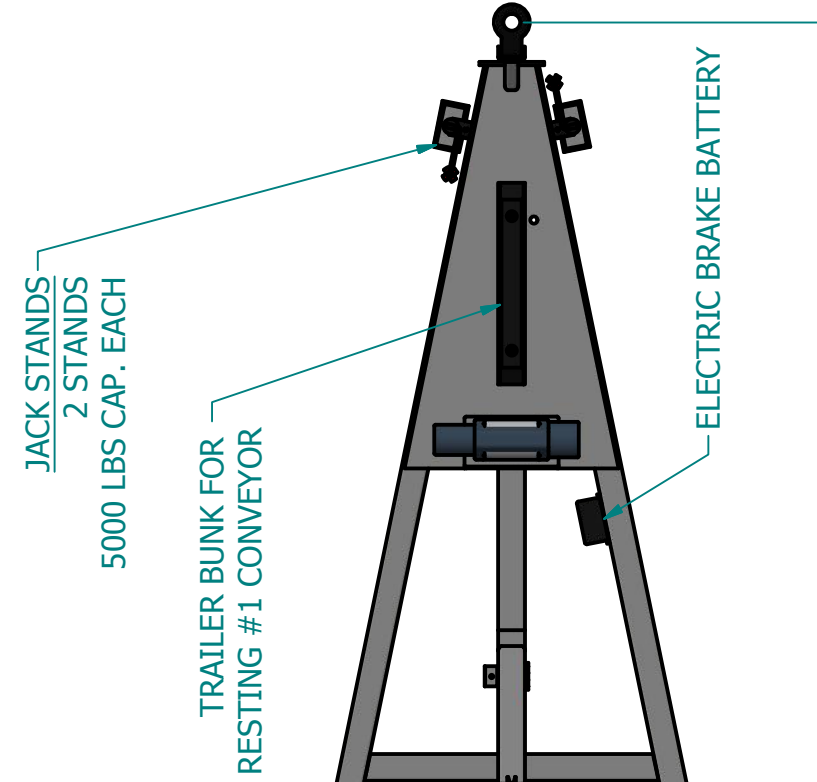
STANDARD TRAILERS

SPECIFICATIONS	IMPERIAL			METRIC			
	TR-12	TR-23	TR-34	TR-12	TR-23	TR-34	
DIMENSIONS	Length	35' 0"	35' 8"	40' 0"	10,67 meters	13,19 meters	
	Width	8' 0"	8' 4"	8' 0"	2,44 meters	2,44 meters	
	Height to Trailer Deck	2' 8"	2' 8"	2' 7"	0,81 meters	0,81 meters	
VEHICLE CAPACITY	Overall Weight	2500 lb	2900 lb	4200 lb	1134 kg	1905 kg	
	Axles	2	3	3	2	3	
	Gross Axle Weight Rating (GAWR)	7000 lb	7000 lb	7000 lb / 8000 lb	3175 kg	3175 kg / 3628 kg	
	Gross Vehicle Weight Rating (GVWR)	14,000 lb	21,000 lb	21,000 lb / 24,000 lb	6350 kg	9525 kg / 10,886 kg	
Suspension System	Leaf spring axles						
Integrated Lighting	Electric brake lights & turn signals with 6 prong adapter						
Brakes	Electric with brake-away safety kit						
Winch	Electric with fairlead						
DETAILS	Winch Capacity	9000 lb	9000 lb	12,000 lb	4082 kg	5443 kg	
	Hitch, with Safety Chains	2" pintle ring	2" pintle ring	2" pintle ring	5 cm pintle ring	5 cm pintle ring	
	Jack Stand Capacity	5000 lb	5000 lb	Two x 5000 lb each	2268 kg	Two x 2268 kg each	
Vehicle Identification	Stamped ID plate with VIN number, lighted license plate holder						
FABRICATION	Material	Heavy duty tubular steel construction					
	Fasteners	Stainless steel 18/8					
FINISH	Preparation	Abrasive sandblast, epoxy primer					
	Paint Type	High quality urethane					
	Color, Manufacturer's Standard	Black	Black	Black	Black	Black	Black
COMPATIBILITY	Harvesters	EH-220, HM-220	HM-320, HM-420	H-620, H-820	EH-220, HM-220	HM-320, HM-420	H-620, H-820
	Mini Skimmer – Harvesters	EH-120, FB-120	n/a	n/a	EH-120, FB-120	n/a	n/a
	Trash Hunters	TH-12	TH-23	TH-12	TH-12	TH-12	TH-34
	Transport Barges	n/a	T-12	T-34	n/a	T-12	T-34

The policy of our company is one of continual improvement and we reserve the right to change specifications without notice.

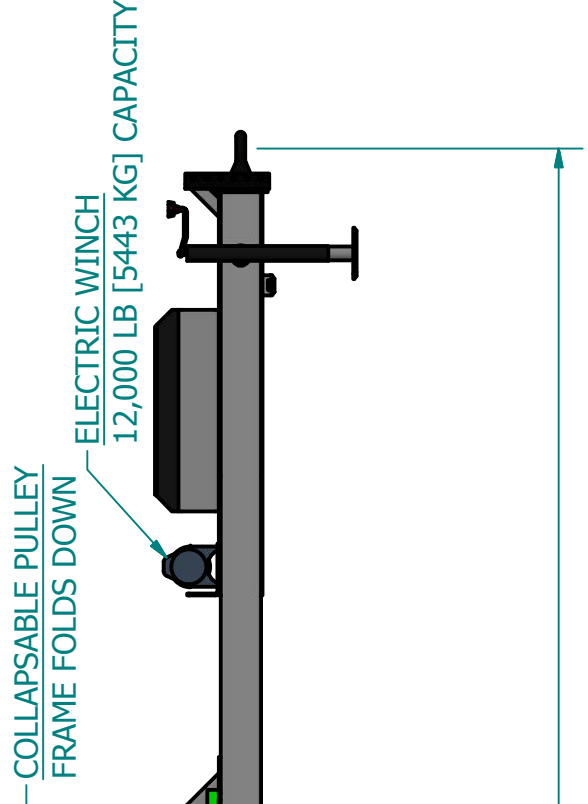
TR-34 (7K) TRAILER SPECIFICATIONS:
 ESTIMATED TRAILER WEIGHT: 4,200 LBS [1905 KG]
 MAXIMUM PAYLOAD: 16,800 LBS
 GROSS AXLE WEIGHT RATING (GAWR): 7000 LBS [3628 KG]
 GROSS TRAILER WEIGHT RATING: 21,000 LBS [10886 KG]
 TRAILER LIGHTING PER U.S. DOT REGULATION 108
 ALL LIGHTS USE L.E.D. BULBS

RECOMMENDED USES:
 HM-620 HARVESTERS
 T-34 & T-45 TRANSPORT



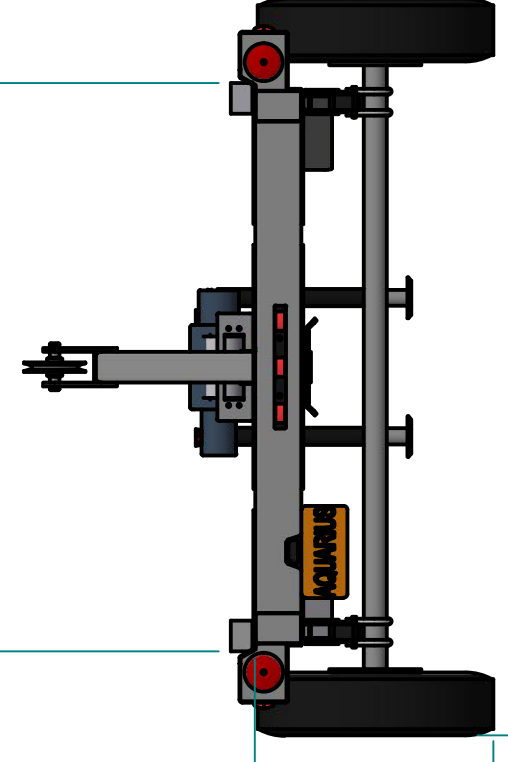
TRAILER LENGTH
 39'-10" [12.1 m]

TIE DOWN POINTS
 (4) D-RINGS WELDED TO FRAME
 COMPATIBLE WITH CHAIN BINDERS
 OR TIE-DOWN STRAPS



3 X 7000 LB AXLES (GAWRO)
 ALL AXLE WITH ELECTRIC BRAKES
 LEAF SPRING SUSPENSION

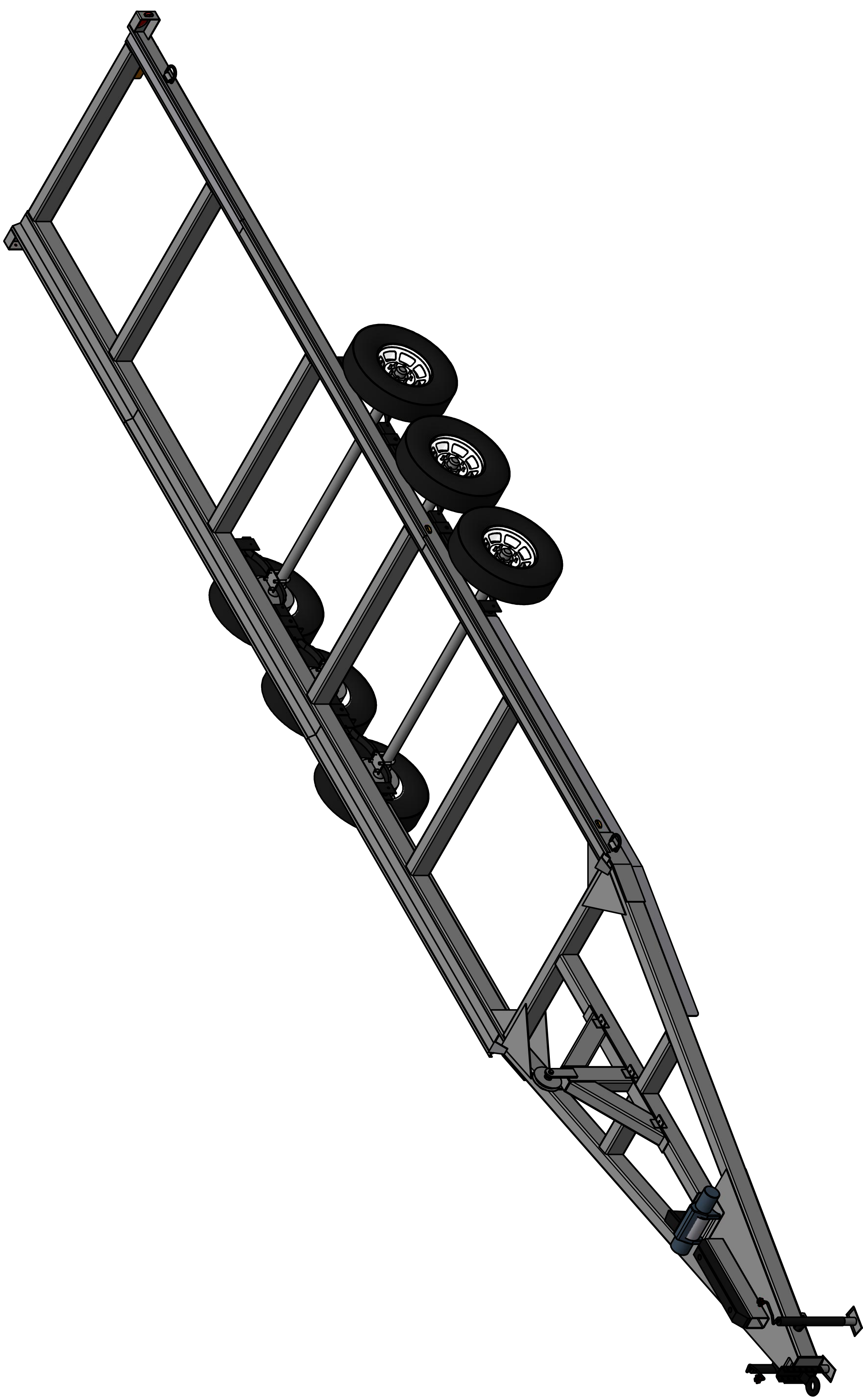
COMPATIBLE WITH:
 BOATS WITH
 72 1/2" WIDE BARGE GUIDES
 (OUTSIDE TO OUTSIDE)



DESIGNED FOR 7000 LB AXLES

MATERIAL		2/20/2015		TITLE	
DRAWN	michaelr			GENERAL ARRANGEMENT	
APPROVED BY				PROJECT	
				TR-34 (7K) TRAILER	
		SIZE		DWG NO	
		C		2622	
		GENERAL ARRANGEMENT		REV	
				0	
TOL. ±1/32"		UNLESS OTHERWISE NOTED		SCALE	
		NTS		WEIGHT N/A	
				SHEET 1 OF 2	

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MATERIAL		2/20/2015		TITLE	
DRAWN		michaelr		PROJECT	
APPROVED BY				GENERAL ARRANGEMENT	
				TR-34 (7K) TRAILER	
		SIZE		DWG NO	
		C		2622 GENERAL ARRANGMENT	
		SCALE		NTS	
		TOL. $\pm 1/32"$ UNLESS OTHERWISE NOTED		WEIGHT N/A	
				SHEET 2 OF 2	

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