



AGENDA ITEM EXECUTIVE SUMMARY

Title:	Recommend Approval of the Purchase of A Replacement Dive Rescue Trailer For The Fire Department And the Sale Of The Current Trailer
Presenter:	Fire Chief Joseph Schelstreet

Please check appropriate box:

Government Operations	<input checked="" type="checkbox"/>	Government Services
Planning & Development	<input type="checkbox"/>	City Council

Estimated Cost:	\$53,228	Budgeted:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> X	<input type="checkbox"/> NO	
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If NO, please explain how item will be funded:

Executive Summary:

The Fire Department currently possesses a 1992 Pace American Dive Trailer. This trailer is utilized on water rescue calls that occur in the Fox River, local ponds and other bodies of water. The trailer has reached the end of its service life and the Fire Department has developed specifications for a new unit. In conjunction with the Foreign Fire Insurance Tax Board, bids were obtained from three manufacturers with Becker Custom Trailers being the successful vendor at a price estimated at \$53,228, which includes \$1,000 for plan design for the trailer. The Fire Department FY 16/17 budget contains \$18,000 to be utilized for the purchase of the trailer. At the April 6 meeting of the Foreign Fire Insurance Tax Board, an authorization vote was taken to contribute up to \$38,000 for the remaining costs. When discussing the scheduling for the trailer, staff learned that if we can begin the drawings immediately, the trailer can be delivered in August. If we delay the design/drawing process, production schedules will necessitate a minimum of an additional 10 weeks of lead time for delivery. Staff is requesting award of the contract so that we may begin the drawing and design process to minimize the lead time for delivery of the trailer. The City and the Board have worked together on multiple other projects successfully in the past. Upon receipt of the new trailer, the 1992 Pace American unit will be sold and the monies recouped will revert back to the Foreign Fire Insurance Board. This is a budgeted expense.

Attachments: *(please list)* Bid documents from Becker Custom Trailers, Alexis and MD Great Dane Custom Trailers

Recommendation / Suggested Action *(briefly explain):* Recommend Approval of the Purchase of a Replacement Dive Trailer for the Fire Department from Becker Custom Trailers at a cost of \$53,228 and to sell the 1992 Pace American Unit

<i>For office use only:</i>	<i>Agenda Item Number:</i> IJ
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**City of St. Charles, Illinois
Resolution No. _____**

**A Resolution Authorizing the Mayor and City Clerk
of the City of St. Charles to Recommend Approval of the Purchase of a
Replacement Dive Rescue Trailer For The Fire Department and the Sale Of
The Current Trailer**

**Presented & Passed by the
City Council on April 18, 2016**

BE IT RESOLVED by the City Council of the City of St. Charles, Kane and DuPage Counties, Illinois, that the Mayor and City Clerk be and the same are hereby authorized to approve the purchase of a replacement dive rescue trailer for the fire department and the sale of the current trailer.

Presented to the City Council of the City of St. Charles, Illinois this 18th day of April, 2016.

Passed by the City Council of the City of St. Charles, Illinois this 18th day of April, 2016.

Approved by the Mayor of the City of St. Charles, Illinois this 18th day of April 2016.

Mayor Raymond P. Rogina

ATTEST: _____
City Clerk

COUNCIL VOTE:

Ayes: _____

Nays: _____

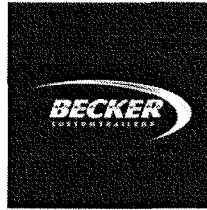
Abstain: _____

Absent: _____

Quote #: 19890

Client: St. Charles Fire Department

Status: Version: Created: Revised:
Quote 16.0.0 02/15/2016 04/01/2016



SALES CONTACT:
Scott Rausch
scott@beckercustomtrailers.com
702.802.1564 (Work)
BECKER CUSTOM TRAILERS
6963 Speedway Blvd.
Las Vegas, NV 89115
800-595-7729
beckercustomtrailers.com

CONTACT INFORMATION

NOTES

MODEL INFO

Configured Model #: QSTAB8522+0-2T6.0K
2016 Aluminum Trailer
8.5'W x 22'L x 7.0'H, (2) 6000# Torsion Axle(s)
VIN:
Warranty: 5 YR STR, 3 YR LTD, 1 YR ELEC WARRANTY

COLOR: Victory Red (Standard)
REAR COLOR: None
COLOR - CABINETS: Victory Red

SPECIFICATIONS

Part Name	Qty	UOM	Ref.
BASE MODEL			
QSTAB8522+0-2T6.0K	1	ea	STD
AXLE - 6000# - TORSION - EZ LUBE HUBS - ELECTRIC BRAKES • GROUND CLEARANCE: STANDARD (APPROX. 14.25" - NO LOAD)	2	ea	STD
AXLE SPACING - SPREAD AXLE	1	ea	STD
ALL TUBE CONSTRUCTION	22	ft	STD
CROSS MEMBERS - FLOOR - 16" O/C	22	ft	STD
CROSS MEMBERS - ROOF - 16" O/C - 1" X 3"	22	ft	STD
CROSS MEMBERS - WALL - CS - 16" O/C - 1" X 1.5"	22	ft	STD
CROSS MEMBERS - WALL - RS - 16" O/C - 1" X 1.5"	22	ft	STD
FLOOR DESIGN - FLAT	1	ea	STD
FRAME - 5"	22	ft	STD
FRAME - FULL PERIMETER - ALUMINUM	22	ft	STD
FRAME PROTECTION - SKID PLATES	1	pr	STD
FRONT DESIGN - FLAT	1	ea	STD
TRUCK PLUG - 7 WAY	1	ea	STD
EXTERIOR ALUMINUM - STANDARD COLOR • Color: Victory Red (Standard)	22	ft	STD
EXTERIOR FASTENER - SCREWLESS	22	ft	STD
EXTERIOR ALUMINUM THICKNESS - .030	22	ft	STD
FENDERETTES - AL	4	ea	STD
GRAVEL GUARD - ATP - 24" - WITH J RAIL	1	ea	STD

ROOF - ONE PIECE - ALUMINUM	22 ft	STD
TRIM - HEADER - REAR - COLOR MATCHED	1 ea	STD
TRIM - VERTICALS - REAR - COLOR MATCHED	1 ea	STD
DOT TAPE	22 ft	STD
DOOR - ENTRANCE - 405 SERIES - 32" X 78" - FLUSH LOCK	1 ea	STD
• RIGHT HINGE		
GRAB HANDLE - STAINLESS STEEL FOLD OUT WITH GRIPS	1 ea	OPT
STEP - SLIDE IN/OUT - NON SLIP GRID - ALUMINUM - 32"	1 ea	OPT
WHEEL BOX - SMOOTH AL	2 ea	STD
LIGHT - CLEARANCE - LED - 12V - AMBER - LOWER	4 ea	STD
LIGHT - CLEARANCE - LED - 12V - AMBER - UPPER	4 ea	STD
LIGHT - CLEARANCE - LED - 12V - RED - LOWER	2 ea	STD
LIGHT - CLEARANCE - LED - 12V - RED - UPPER	7 ea	STD
LIGHT - TAILLIGHT - SLIMLINE - LED - 12V - RED	1 pr	STD

PACKAGES

PACKAGE - ELECTRICAL #3	1 ea	OPT
BREAKER BOX - 50 AMP - 60 AMP CONVERTER - 12V FUSE PANEL - INTELI-POWER UNIT	1 ea	PKG
POWER INLET - MOTORBASE - 50A - W/ SHORE CORD - 25'	1 ea	PKG
BATTERY - 12V AGM (930 CA, 775 CCA)	1 ea	PKG
SWITCH - POWER CUT-OFF - MANUAL - 12V	1 ea	PKG
LIGHT - RECTANGULAR - LED - 18" - 12V - RECESSED - W/ TRIM RING	5 ea	PKG
SWITCH - WALL - 3 WAY - 12V	1 pr	OPT
• USED FOR: LIGHT - RECTANGULAR - LED - 18" - 12V - RECESSED - W/ TRIM RING		
RECEPT - INTERIOR - 120V - 15A	4 ea	PKG
• GFCI PROTECTED WHERE REQUIRED BY CODE		
RECEPT - EXTERIOR - 120V - 15A - GFI PROTECTED	1 ea	PKG
CABINET - ALUMINUM - BUILDOUT FOR INTELI-POWER UNIT	1 ea	PKG

OPTIONS

COUPLER - ADJUSTABLE WITH PINTLE - 3" - 14,000#	1 ea	OPT
JACK - TONGUE - SWING UP - BOLT ON	1 ea	OPT
TIRE/WHEEL - ST235/80R16/LRE - RADIAL ON ALUMINUM - W/STAINLESS STEEL LUGNUTS	4 ea	OPT
TONGUE - EXTENDED TRIPLE TUBE - 12"	1 ea	OPT
AWNING - MANUAL SUNCHASER - TWO-STEP WITH ALUMINUM WEATHERSHIELD - 19' - BLACK - ONYX VINYL FABRIC	1 ea	OPT
AWNING - MANUAL SUNCHASER - TWO-STEP WITH ALUMINUM WEATHERSHIELD - 19' - BLACK - ONYX VINYL FABRIC	1 ea	OPT
TRIM - VERTICALS - FRONT & TOP RADIUS - STAINLESS STEEL WITH CAST CORNERS - POLISHED	1 ea	OPT
TRIM - RUB RAIL - UPPER - ALUMINUM - 4"	22 ft	OPT
TRIM - RUB RAIL - LOWER - ALUMINUM - 7"	22 ft	OPT
VENT - ROOF - MANUAL - 14"	2 ea	OPT
DOOR - REAR RAMP - PREMIUM - CONTINUOUS ALUMINUM HINGE - 4000# RATED	1 ea	OPT
RAMP DOOR EXTERIOR - REAR - COLOR MATCHED	1 ea	OPT
TRANSITION FLAP - ALUMINUM - EXTRUDED - 16"L	1 ea	STD
RAMP DOOR FLOORING - REAR - ALUMINUM - EXTRUDED	1 ea	OPT
DOOR HARDWARE - LATCH - PADDLE - STAINLESS STEEL	1 pr	OPT
INTERIOR HEIGHT - 7.0'	22 ft	OPT
CABINET - ALUMINUM - FURNACE	1 ea	OPT
COUNTERTOP - STAINLESS STEEL - FIXED - 84"W X 24"D	1 ea	OPT
• INCLUDES SPEED BRACES		

INTERIOR CEILING - SCREWLESS ALUMINUM	22 ft	OPT
<ul style="list-style-type: none"> • Cove Color: Victory Red • Ceiling Color: Polar White (Standard) • Spring Box Color: Victory Red 		
INSULATION - CEILING - EPS - 1" - R-3	22 ft	OPT
INTERIOR WALLS - SCREWLESS ALUMINUM	22 ft	OPT
<ul style="list-style-type: none"> • Wall Color: Polar White (Standard) 		
INSULATION - WALLS - EPS - 1" - R-3	22 ft	OPT
FLOORING - ALUMINUM - EXTRUDED	22 ft	OPT
INSULATION - FLOOR - EXPANSION - 2" - R-14	22 ft	OPT
FIRE EXTINGUISHER - 2.5# BC	1 ea	OPT
SMOKE DETECTOR	1 ea	OPT
CO DETECTOR	1 ea	OPT
LP DETECTOR	1 ea	OPT
BATTERY BOX - IN-FLOOR - SINGLE	1 ea	OPT
LIGHT - TAILLIGHT - SLIMLINE - LED - 12V - RED	1 pr	OPT
LIGHT - SCENE - LED - HIGH OUTPUT - 12V - NON RECESSED - 9" X 7"	4 ea	OPT
SWITCH - WALL - 12V	3 ea	PKG
<ul style="list-style-type: none"> • Used For: Exterior Scene Lights 		
SWITCH - RELAY - 12V - 30A	4 ea	OPT
LP TANKS - (2) - 20# - W/ TRAY AND MOUNTING BRACKETS	1 ea	OPT
A/C - 15,000 BTU - LOW PROFILE - 10.5" - BLACK	1 ea	OPT
THERMOSTAT - A/C - MOUNTED TO WALL - WHITE	1 ea	OPT
FURNACE - DUCTED - 35000 BTU - LP	1 ea	OPT
<ul style="list-style-type: none"> • DUCTING FOR FURNACE THROUGH CABINETS • THERMOSTAT INCLUDED 		

APPROVED CUSTOM OPTIONS

CABINET - ALUMINUM - 156" W - TOP-HINGED DOORS	2 ea	
-Includes Dividers		
ADD 36" 405-SERIES ENTRANCE DOOR INTO REAR RAMP DOOR	1 ea	
Reference Option 73578		
CK		
48" W X 84" H CARGO NETTING/ SQ FT	28 sq	
-Includes stainless steel hooks & clips		
-Opt # 82810 - LJB		
ON/OFF/ON SWITCH FOR WHELEN EMERGENCY LIGHTS	1 ea	
-Lights to be wired to 7-way plug on reverse pin wire		
-Will allow lights to be on when on scene or when in reverse		
EXTERIOR MOUNTED - WHELEN LED LINZ6 EMERGENCY LIGHT - 12V	16 ea	
5 BOTTLE SCUBA TANK STORAGE RACK	1 ea	
-Welded aluminum tube frame structure to house advantech compartments		
-3/4" Advantech housing for scuba tanks		
-.125 aluminum wall inside door opening with (5) 8" Diameter Holes		
Reference Option 80598 for concept		
CK		
ALUMINUM BENCH SEAT - 156" W - UNDERNEATH STORAGE	26 ft	
-Each 13' section needs to have 5 hinged-access doors to access storage area		
-Each of the (5) storage areas needs to be individually contained		
KNOCK-DOWN BRACKET - WALL MOUNT - SCBA TANK AIR TANK	10 ea	
FLOOR DRAIN, 2" x 4" U-CHANNEL - 96" W	2 ea	
Reference Option 82324		

CK

GENERATOR - 5.5 KW ONAN - LP - (120V / 240V) 1 ea

LIGHT - LED - 12V - ANGLED PORCH LIGHT 2 ea
-18 DIODE WITH CHROME BASE
-PLACED ABOVE REAR RAMP DOOR

ALUMINUM END PANEL FOR COUNTERTOP ON R/S WALL 1 ea
-Includes 1 adjustable shelf - 36" W
Reference Option 44957
CK

ALUMINUM SHELVING W/ END PANEL & (3) ADJUSTABLE SHELVES - 48" W x 84" H 1 ea

Grand Total: \$53,228.00
F.O.B.-Indiana



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November 5, 2015

City of St Charles Fire Department
St Charles, IL

Gentlemen:

We hereby propose to furnish, after your acceptance, approval, and proper execution of the accompanying contract, the fire apparatus as follows:

One (1) Alexis 20' Dive Team Trailer

As per specifications attached herewith.

TOTAL APPARATUS.....\$ 58,432.00*

* Does not include any applicable taxes. Any local or state tax, if applicable, must be added to the above price.

Shipment of completed apparatus shall be made within _____ calendar days after our approval of properly signed contract, subject to causes beyond our control. This proposal is made subject to your acceptance within thirty (30) days from date of same. If acceptance is delayed beyond that period, we will, upon request, advise you of any increase in said amount which may be occasioned by causes beyond our control.

Respectfully submitted,
ALEXIS FIRE EQUIPMENT COMPANY

By: _____

"QUALITY HAS NO SUBSTITUTE"



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OPTIONS:

PERSONAL LAVATORY SYSTEM:

A complete portable style toilet system shall be supplied with the trailer. A specified location at the front interior area of the trailer shall be supplied. The area shall include a privacy curtain and side partition wall located adjacent to the front storage shelves.

ADD:

\$ 425.00

ISO 9001:

Alexis Fire Equipment Company operates a Quality Management System under the requirements of ISO 9001. These standards, sponsored by the "International Organization for Standardization (ISO)," specify the quality systems that shall be established by the manufacturer for design, manufacture, installation and service.



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DIGITAL PHOTOGRAPHS:

Digital photographs of apparatus under construction are taken on a weekly basis and emailed to a department supplied email address. Additionally, these photos are uploaded to our website at www.alexisfire.com allowing those department members who may not have access to the emailed photos to track the progress of the unit.



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SERVICE CENTER:

The Alexis Priority-One service team is staffed with factory trained mechanics ready to meet your service requirements. Our staff is continually working on maintaining updated EVT and ASE certification.

The Alexis Service Team is available 24 hours a day, 7 days a week for your service emergencies. We use the latest paging system for fast, efficient and reliable service.

Our service facility covers an area of approximately 14,000 square feet.

The Alexis Service Team can assist you in fire apparatus service, ambulance service, aerial device maintenance, generator and rescue tool maintenance and service, and air pack inspections. Our staff can provide our customers with a complete apparatus training program, meeting the latest training requirements.

Alexis is a single source warranty center for the following manufacturers: HME, Spartan Motors, Hale Products, and Waterous.

Our service team has over 50 years of cumulative experience in the fire service industry. In addition, they are backed by our fabrication, electrical, and paint and finish departments. This combination of training and hands-on experience offers true reliability and dependability.

Alexis keeps detailed documentation of all repair, maintenance, and inspection performed by our personnel. With time and manpower at such a premium among many fire departments, why not allow the Alexis Service Team to set up and maintain records for your fleet?

The Alexis Service Team is committed to providing prompt and courteous service, quality products and fair pricing.

Business: Alexis Fire Equipment Company

Contact Person: Barb Lafferty

Location: 109 East Broadway Alexis, IL 61412

Phone: 800-322-2284



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DELIVERY:

To insure proper break-in of all drive train components while under warranty, the finished apparatus shall be delivered to the purchaser under its own power.

The apparatus shall be covered by comprehensive and liability insurance during the delivery period. The purchaser shall assume the insurance obligation on acceptance. At that time, the purchaser shall present to the manufacturer's agent a certificate of verification, showing liability, comprehensive, and collision insurance coverage.

GENERAL INFORMATION:

LOCATION

The Alexis Fire Equipment facilities are located at 109 East Broadway, Alexis, Illinois 61412. We maintain a complete stock of parts and services available around-the-clock. We also propose to maintain parts and service for a minimum period of twenty (20) years on all apparatus which is manufactured.

NOTATION

To further assure the customer of our ability to manufacture quality fire apparatus, we are proud of the fact that Alexis Fire Equipment Company is family-owned and has been in the fire apparatus business since 1947.

WARRANTY:

Alexis Fire Equipment Co., Inc. warrants each new piece of fire and rescue apparatus manufactured by Alexis to be free from defects in material and workmanship under normal use and service for a period of one year from the date of delivery. Our obligation under this warranty is limited to furnish any parts to replace those that have failed due to defective material or workmanship, as the company may elect, provided that such part, or parts shall be returned to us not later than one year after delivery of such vehicle. All water tanks will be warranted as stated herein and may have extended warranty as explained elsewhere in the Alexis Fire Equipment Co. Proposal.



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This warranty will not apply:

1. To normal maintenance services including, but not limited to, electrical lamps, valve seals, normal lubrication and/or proper adjustment of minor items.
2. To any vehicle which shall have been repaired or altered outside of our factory, in any way so as, in our judgment, to affect its stability, nor which has been subject to misuse, negligence, or accident, nor to any vehicle made by us which shall have been operated at a speed exceeding the factory rated speed, or loaded beyond the factory rated load capacity.
3. To the chassis and associated equipment furnished with chassis, signaling device, generators, batteries or other trade accessories. These are warranted separately by their respective manufacturers.
4. To work performed by an outside service without prior authorization obtained from Alexis Fire Equipment.
5. To costs incurred from an outside service for non-warranty related items.

This warranty is in lieu of all other warranties, expressed or implied, and all other representations to the original purchaser and all other obligations or liabilities, including liability for incidental or consequential damages on the part of the company. We neither assume nor authorize any person to give or assume any other warranty or liability on the company's behalf unless made or assumed in writing by the company.

LENGTH AND/OR HEIGHT LIMITATIONS:

OVERALL HEIGHT:

The OAH of the unit shall not exceed N/A.

OVERALL LENGTH:

The OAL of the unit shall not exceed N/A.

20' HAULMARK GRIZZLY TRAILER:

The trailer will be a Haulmark Grizzly Trailer # GR85X20WT3 with the following options:

- Tandem 5200# Torflex axles w/electric trailer brakes.
- ST225/75R15 D rated tires on 6/5.5 white powder coated spoke rims (including a spare tire) ,aluminum fender flares.
- 24" ATP Stone Guard
- Adjustable 3" Pintle Eye Coupler, 2 ton manual tongue jack, w/safety chains, breakaway switch & sand pad.
- Two (2) 12v Dome Lights
- Drop down stabilizer jacks at rear.
- .030 smooth aluminum exterior Victory RED, dust resistant side walls, 3/4" plywood floor w/moisture barrier, side walls will be covered 3/8" plywood, white vinyl ceiling liner.
- A 36" x 72" side entry door with RV style latch shall be provided on the passenger of the trailer.
- Vertically hinged rear double doors.
- Two manual roof vents, 3rd opening (for A/C Unit).
- 13,500 btu Coleman Mach III A/C Unit Roof mount.
- 50a Electric service panel, (1) 50a Motorbase Recept, (2) 4' interior fluorescent lights w diffusers, (1) interior light switch for the 120v fluorescent, (2) 120v 15a Duplex Interior recept. outlets, 30a 25' Shoreline Cable.
- LED Taillights and ICC lights,
- Vented generator door.

LABELS:

All electrical outlets, shoreline connection and switches shall be permanently label for proper identification.

TRAILER LAYOUT:

The 20' trailer interior shall configured per the AFE supplied layout.

ADJUSTABLE SHELF STORAGE UNIT:

An aluminum shelf storage unit shall located in the front passenger's side area of the trailer. The bulkhead storage unit shall include 3 adjustable aluminum shelves. The bulkhead walss and shelves shall be fabricated from 3/16" smooth aluminum materials. The shelves shall be approx. 44" wide x 24" deep mounted in aluminum uni-strut adjustable tracking.



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INTERIOR CONSTRUCTION SYSTEM:

The benches, overhead bins, and partition wall shall be fabricated from 3/16" heavy smooth and treadplate aluminum materials. All aluminum surfaces shall remain the natural aluminum finish.

INTERIOR FLOOR:

The interior floor of the trailer shall be prepped and coated with black Reflex texturized bed coating. The coating shall cover the entire floor and up approx. 6-8" up the side walls. A removable fiberglass reinforced I-Beam style flooring system shall be installed over the Reflex coating in all walking areas of the trailer.

LINING AND INSULATION:

The interior walls and ceiling shall be insulated to reduce thermal loss. The interior area shall be overlaid with white vinyl lining material on the walls and ceiling.

SQUAD BENCHES:

There shall be two (2) squad benches located in the rear interior area of the trailer. Each bench shall accommodate up to Five (5) seated people each side of the interior. Each seat position shall include a SCUBA bottle storage bracket mounted to the back wall of the bench seats. General storage shall be located inside each bench seat. The seats shall utilize a composite wood type material. The bench seat storage area shall be accessible from the hinged lift up seat bottoms. The base of the benches shall be fabricated from 3/16" aluminum treadplate. The lift up seat area shall be 3/16" smooth aluminum mounted on heavy duty stainless steel hinges. Two gas springs shall be utilized to hold the lid in the open position. Dividers shall be located inside each bench to make 5 individual storage spaces in each bench. The bench seat bases shall be ventilated for air movement.

OVERHEAD STORAGE BINS:

Ten (10) door lift up overhead storage cabinets (5 each side) shall be mounted above the side bench seat areas of the trailer. The overhead cabinets shall be fabricated from aluminum material. The lift up door fronts shall be aluminum treadplate material. Each door shall have a locking snap latch and door stays to hold doors in open position.

STAINLESS STEEL COUNTER TOP:



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A smooth stainless steel full width counter top shall be fabricated and mounted in the front driver's side area of the trailer. The stainless steel counter top shall be fabricated from 12ga 4B stain finish stainless steel sheet. A formed 2" edge shall wrap over the front edge of the counter top and a raised back splash at the rear of the counter top. The counter top shall be approx. 42" above the finished floor of the trailer. The counter top shall be approx. 87" wide and 27" deep. The shall be general storage space located below the counter top with a fixed shelf space above generator compartment and and 36" wide adjustable shelf.

AWNING:

There shall be a 18' Carefree manual roll-up vinyl material awning located on the right side of the trailer. A roller wheel shall be mounted to the top edge of the side entry door to prevent damage to the awning.

SCUBA BOTTLE STORAGE:

A vertically mounted SCUBA bottle storage rack shall be installed in the passenger side of the trailer interior. The bottle rack shall accommodate up to five (5) customer supplied SCUBA bottles. The bottles shall be angled down to prevent movement while in transit. A die cut hypalon webbing cover shall be provided to contain the bottles.

12 VOLT ELECTRICAL:

12 VOLT ELECTRICAL SYSTEM:

Our electrical system is engineered to provide many years of dependable, trouble free service.

The 12 volt trailer wiring shall be completely independent of the chassis electrical system. The system shall include two (2) 12v deep cycle RV batteries within the trailer. The batteries shall provide power for the exterior LED warning lights and scene lights. An additional waterproof plug and harness shall be included at the trailer hitch location. This harness can be plugged to the two vehicle to control the warning lights from the cab. (switch in cab NOT included). The batteries shall be charged from the on board battery conditioner (SEE Battery Conditioner). The conditioner shall be powered through the shoreline connection with a portable generator.

Wiring Diagrams: Two (2) destination effective wiring diagrams shall be furnished with the apparatus. The wiring diagrams shall incorporate notations to assist an individual with limited electrical experience in the service of the apparatus electrical system.



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NOTE: All wiring and components shall meet or exceed current N.F.P.A. codes.

SHORELINE CONNECTION:

A 30amp shoreline connection shall be provided on the front left corner of the trailer. The shoreline connection shall include a weatherproof cover. The shoreline connection shall provide 120v AC power to the 50amp circuit breaker box. The shoreline shall also provide power for the on board battery conditioner, fluorescent light fixtures, and outlets. A 15' shoreline cable shall be included with the system.

ON BOARD BATTERY CHARGER:

One (1) Progressive Dynamics PD2180 battery charger shall be installed in the trailer. The unit shall be located above the generator compartment.

The PD2180 is a 80-amp Electronic Marine Converter/Charger capable of charging up to three separate banks of batteries at the same time. It incorporates a microprocessor that constantly monitors battery voltage, then automatically selects one of four operating modes to ensure safe, rapid recharging cycles. The Storage Mode and the Equalize Mode of operation ensures minimum battery gassing and water loss while preventing battery stratification and sulfation. All Inteli-Power chargers are designed to meet the stringent requirements of the Marine environment and are UL listed for safety. A digital meter displays current, voltage, operation mode, blown fuse indication, and battery type.

WARNING LIGHTS (SIDE):

Two (2) Whelen Model 60R02FRR red Super Linear LED lights shall be mounted on the right (officer's) side of the vehicle. These lights are placed inside chrome flanges. These lights shall be switched from the switch panel located in the trailer. The warning lights shall be capable of being controlled from the tow vehicle with the addition of switching and wiring (not included). These lights fill the requirements of Zone B Lower.

Two (2) Whelen Model 60R02FRR red Super Linear LED lights shall be mounted on the left (driver's) side of the vehicle. These lights are placed inside chrome flanges. These lights shall be switched from the switch panel located in the trailer. The warning lights shall be capable of being controlled from the tow vehicle with the addition of switching and wiring (not included). These lights fill the requirements of Zone D Lower.

WARNING LIGHTS (SIDE):



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One (1) Whelen 60R02FRR Red Super Linear LED Light shall be mounted on the right (officer's) side of the vehicle in the upper area. These lights shall be switched from the switch panel located in the trailer. The warning lights shall be capable of being controlled from the tow vehicle with the addition of switching and wiring (not included).

One (1) Whelen 60R02FRR Red Super Linear LED Light shall be mounted on the left (driver's) side of the vehicle in the upper area. These lights shall be switched from the switch panel located in the trailer. The warning lights shall be capable of being controlled from the tow vehicle with the addition of switching and wiring (not included).

WARNING LIGHTS (REAR):

Four (4) Whelen Model Strip Lights Red LED lights shall be mounted on the upper and lower rear area of the trailer. These lights shall be switched from the switch panel located in the trailer. The warning lights shall be capable of being controlled from the tow vehicle with the addition of switching and wiring (not included).

BACKUP ALARM:

One (1) Federal Model 210339, 12 volt electronic backup alarm shall be incorporated on the trailer. The backup alarm shall be a minimum of 97db and switched with the backup light circuitry.

INTERIOR DOME LIGHT:

Two (2) 12v LED interior dome lights shall be included. The lights shall be powered from the 12v battery system of the trailer. The lights shall be activated from a switch located adjacent to the side entry door.

SCENE LIGHTS:

Four (4) large LED scene light(s), Whelen Model 9SC0ENZR, shall be mounted 2 each side of the trailer exterior. The scene lights shall be switched at the side entry door.

SCENE LIGHT SWITCHING:

There shall be a switch located inside the trailer adjacent to the side entry door.

LOCATION: Two (2) Each Side



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LP GAS POWERED FURNACE:

One (1) Atwood Hydro Flame Excalibur 8900 series 40,000 BTU LP gas furnace shall be installed in ahead of the driver's side bench seat above counter top. The unit shall be plumbed to the (2) LP tanks located on the trailer tongue. The forced air fan and thermostat shall be powered from the 120v system of the trailer. The furnace shall be ducted to the front side and rear of the furnace area.

AIR CONDITIONER:

One (1) Coleman Mach III air conditioner shall be installed on the trailer roof. The A/C shall be a 13,500 BTU air conditioner. The air conditioner shall include a variable speed fan and controls at the roof mounted location. The A/C unit shall be powered from the on board generator/shoreline hookup.

8000w LP GAS POWERED GENERATOR :

A Winco HPS9000VE Tri-Fuel 8000w portable LP gas driven generator shall be included with the trailer. The generator shall be rated at 8W, 120/240 VAC, single phase, 60 Hertz. The generator shall be mounted on a slidemaster heavy duty slide out tray. The generator shall be located in the left front exterior access compartment. The compartment door shall include exterior vents. The generator must be extended during operation for proper cooling. Two (2) 40lb LP gas cylinders shall be mounted on the tongue area of the trailer. The cylinder shall be plumbed to the generator utilizing a automatic change over regulator and pigtaills.

120 VOLT ELECTRICAL SYSTEM:

The complete 120V wiring and electrical installation shall be provided by the trailer manufacturer. All systems shall be thoroughly tested and inspected prior to delivery of the completed trailer. The generator installation (insulated cabinet, slideout tray, and fuel connections) shall be installed by Alexis Fire Equipment.

ELECTRICAL SYSTEM TESTING:

The wiring and associated equipment shall be tested by the trailer manufacturer or the installer of the line voltage system.

Electrical polarity verification shall be made of all permanently wired equipment and receptacles to determine that connections have been properly made.



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OPERATIONAL TEST:

The apparatus manufacturer shall perform the following operation test and shall certify that the power source and any devices that are attached to the line voltage electrical system are properly connected and in working order.

Vehicle support systems that are required to maintain the power source in operation shall remain within their required operational parameters.

CIRCUIT BREAKER BOX:

The main circuit breaker box shall incorporate six (6) 120-Volt circuits. The breaker box shall also have a main breaker. Each over-current protection device shall be marked to identify the function of the circuit it protects. The circuit breaker box shall be located inside the front left area above counter top.

120 VOLT INTERIOR OUTLETS:

Two (2) outlet (s) shall be installed in the interior of the trailer (1) each side of the trailer.

The outlet (s) shall be located: Inside the trailer. Location TBD.

Each outlet shall be a single 15 amp straight prong receptacle.

INTERIOR FLUORESCENT LIGHTING:

Two (2) 4' Fluorescent light fixtures shall be installed in the ceiling. The lights shall be switched inside the trailer. The lights shall be powered from the generator/shoreline connection.

FINISH:

TRAILER EXTERIOR FINISH:

The exterior finish of the trailer shall remain as is. The RED exterior aluminum sheeting shall be provided by the trailer manufacturer.



Delivery Prep -- Aerials/Large Rescue

COMPARTMENT INTERIOR FINISH:

The interior finish exterior and interior compartments shall be natural finish aluminum.

TRAILER LETTERING & GRAPHICS:

Lettering and exterior trailer graphics shall be supplied by the customer after delivery.

REFLECTIVE STRIPING:

Reflective striping shall be applied by the customer after delivery.

EQUIPMENT:

NFPA EQUIPMENT CLARIFICATION:

Any equipment specified in the “Minor Equipment” section (e.g. hose, nozzles, adapters, AED, traffic cones, traffic safety vests, etc.) of NFPA 1901 for each apparatus classification (see below) which is not specified in this proposal shall be considered to be customer supplied and installed.

Apparatus Type	NFPA Section
Pumper	5.8
Initial Attack	6.7
Mobile Water Supply	7.7
Aerial	8.8
Quint	9.8
Special Service	10.5
Mobile Foam	11.9

Quote #: 15357
 St Charles, IL Fire

Status: Version: Created: Revised:
 Quote 13.0.0 11/09/2015 03/30/2016



SALES CONTACT:

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 WWW.MOGREATDANE.COM

CONTACT INFORMATION

NOTES

13,200 GVWR
 ALL ALUMINUM FRAME

MODEL INFO

Configured Model #: QSTAB8522+0-2T6.0K
 2016 Quest Aluminum Trailer
 8.5'W x 22'L x 7.5'H, (2) 6000# Torsion Axle(s)
VIN:
Warranty: 5 YR STR, 3 YR LTD, 1 YR ELEC WARRANTY

COLOR: Victory Red (Standard)
REAR COLOR: None
COLOR - CABINETS: Victory Red

SPECIFICATIONS

Part Name	Qty	UOM	Total Ext. \$	Ref.
BASE MODEL				
QSTAB8522+0-2T6.0K	1	ea	\$12,515	OPT
PACKAGES				
PACKAGE - ELECTRICAL #3	1	ea	(\$685)	OPT
FRAME				
AXLE - 6000# - TORSION - EZ LUBE HUBS - ELECTRIC BRAKES <ul style="list-style-type: none"> • GROUND CLEARANCE: STANDARD (APPROX. 14.25" - NO LOAD) 	2	ea		STD
AXLE SPACING - SPREAD AXLE	1	ea		STD
ALL TUBE CONSTRUCTION	22	ft		STD
COUPLER - A-FRAME - 2-5/16" - 15,000#	1	ea		STD
CROSS MEMBERS - FLOOR - 16" O/C	22	ft		STD
CROSS MEMBERS - ROOF - 16" O/C - 1" X 3"	22	ft		STD
CROSS MEMBERS - WALL - CS - 16" O/C - 1" X 1.5"	22	ft		STD
CROSS MEMBERS - WALL - RS - 16" O/C - 1" X 1.5"	22	ft		STD
FLOOR DESIGN - FLAT	1	ea		STD
FRAME - 5"	22	ft		STD
FRAME - FULL PERIMETER - ALUMINUM	22	ft		STD
FRAME PROTECTION - SKID PLATES	1	pr		STD
FRAME PROTECTION - BOGEY WHEELS	1	pr	\$268	OPT
FRONT DESIGN - FLAT	1	ea		STD
JACK - TONGUE - SIDE WIND - 2000#	1	ea		STD
JACK - STABILIZER - SCISSOR - 24" - 5000#	1	pr	\$322	OPT

- Location: REAR

TIRE/WHEEL - ST235/80R16/LRE - RADIAL ON ALUMINUM - W/STAINLESS STEEL LUGNUTS	4 ea	\$496 OPT
SPARE TIRE/WHEEL - ST235/80R16/LRE - RADIAL ON ALUMINUM	1 ea	\$398 OPT
SPARE TIRE COVER - BLACK VINYL	1 ea	\$66 OPT
SPARE TIRE MOUNT - EXTERIOR WALL	1 ea	\$78 OPT
TONGUE - EXTENDED TRIPLE TUBE - 12"	1 ea	\$173 OPT
TRUCK PLUG - 7 WAY	1 ea	STD

EXTERIOR

AWNING - MANUAL WITH ALUMINUM WEATHERSHIELD - 17' - BLACK - ONYX VINYL FABRIC	1 ea	\$1,397 OPT
EXTERIOR ALUMINUM - STANDARD COLOR	22 ft	STD
• Color: Victory Red (Standard)		
EXTERIOR FASTENER - SCREWLESS	22 ft	STD
EXTERIOR ALUMINUM THICKNESS - .040	22 ft	\$484 OPT
FENDERETTES - AL - POLISHED	4 ea	STD
GRAVEL GUARD - ATP - 24" - WITH J RAIL	1 ea	STD
ROOF - ONE PIECE - ALUMINUM	22 ft	STD
SKIRTING - PERIMETER SKIRTING WITH REVERSE BEAVERTAIL	1 ea	\$937 OPT
• Includes: Custom Wheelwell Skirt, Full Perimeter Skirting, Single Fenderette Over Each Wheel		
TRIM - VERTICALS - FRONT & TOP RADIUS - STAINLESS STEEL WITH CAST CORNERS - POLISHED	1 ea	\$220 OPT
TRIM - HEADER - REAR - COLOR MATCHED	1 ea	STD
TRIM - VERTICALS - REAR - COLOR MATCHED	1 ea	STD
TRIM - RUB RAIL - UPPER - ALUMINUM - 4"	22 ft	\$88 OPT
TRIM - RUB RAIL - LOWER - ALUMINUM - 7"	22 ft	\$176 OPT
DOT TAPE	22 ft	STD
VENT - ROOF - MANUAL - 14"	2 ea	\$102 OPT

DOORS

DOOR - REAR RAMP - PREMIUM - CONTINUOUS ALUMINUM HINGE - 4000# RATED	1 ea	\$632 OPT
• RAMP DOOR EXTERIOR - REAR - COLOR MATCHED	1 ea	OPT
• TRANSITION FLAP - TPO - GRAY COIN - 16"L	1 ea	STD
• RAMP DOOR FLOORING - REAR - TPO - GRAY COIN	1 ea	\$457 OPT
• DOOR HARDWARE - LATCH - PADDLE - STAINLESS STEEL	1 pr	\$286 OPT
DOOR - ENTRANCE - 405 SERIES - 36" X 78" - FMVSS LOCK	1 ea	\$270 OPT
• RIGHT HINGE		
• GAS SHOCK ON ENTRANCE DOOR	1 ea	\$115 OPT
• STEP - SLIDE IN/OUT - NON SLIP GRID - ALUMINUM - 36"	1 ea	\$422 OPT
DOOR ACCESSORIES - ADD TINTED WINDOW TO ENTRANCE DOOR	1 ea	\$87 OPT
DOOR - GENERATOR - 405 SERIES - 42" X 36"	1 ea	\$564 OPT
• TOP HINGE		

INTERIOR

INTERIOR HEIGHT - 7.5'	22 ft	\$704 OPT
CABINET - ALUMINUM - UPPER - STRAIGHT - 72"W - W/ RADIUS LOWER EDGE - TOP HINGED DOORS AND GAS SHOCKS	4 ea	\$3,036 OPT
• Cabinet Color: Victory Red		
CABINET - ALUMINUM - FURNACE	1 ea	\$399 OPT
INTERIOR CEILING - SCREWLESS ALUMINUM	22 ft	\$418 OPT
• Cove Color: Victory Red		
• Ceiling Color: Polar White (Standard)		
• Spring Box Color: Victory Red		
INTERIOR WALLS - SCREWLESS ALUMINUM	22 ft	\$572 OPT
• Wall Color: Polar White (Standard)		

INSULATION - WALLS - EPS - 1" - R-3	22 ft	\$330 OPT
FLOORING - TPO - GRAY COIN	22 ft	\$1,232 OPT
FIRE EXTINGUISHER - 2.5# BC	1 ea	\$39 OPT
SMOKE DETECTOR	1 ea	\$27 OPT
CO DETECTOR	1 ea	\$59 OPT
LP DETECTOR	1 ea	\$123 OPT
BENCH SEAT W/ STORAGE - ALUMINUM • Color: Victory Red	28 ft	\$5,348 OPT
WHEEL BOX - SMOOTH AL	2 ea	STD

ELECTRICAL

BATTERY - 12V AGM (930 CA, 775 CCA)	1 ea	\$253 PKG
BREAKER BOX - 50 AMP - 60 AMP CONVERTER - 12V FUSE PANEL - INTELL-POWER UNIT	1 ea	\$732 PKG
BATTERY - 12V AGM (930 CA, 775 CCA)	1 ea	\$253 OPT
SWITCH - POWER CUT-OFF - MANUAL - 12V	1 ea	\$88 PKG
POWER INLET - MOTORBASE - 50A - W/ SHORE CORD - 25'	1 ea	PKG
LIGHT - CLEARANCE - LED - 12V - AMBER - LOWER	4 ea	STD
LIGHT - CLEARANCE - LED - 12V - AMBER - UPPER	4 ea	STD
LIGHT - CLEARANCE - LED - 12V - RED - LOWER	2 ea	STD
LIGHT - CLEARANCE - LED - 12V - RED - UPPER	7 ea	STD
LIGHT - TAILLIGHT - SLIMLINE - LED - 12V - RED	1 pr	STD
LIGHT - LOADING - LED - 12V - EXTERIOR	1 pr	\$103 OPT
SWITCH - WALL - 12V • USED FOR: LIGHT - LOADING - LED - 12V - EXTERIOR	1 ea	\$30 OPT
LIGHT - SCENE - LED - HIGH OUTPUT - 12V - NON RECESSED - 9" X 7"	4 ea	\$2,128 OPT
SWITCH - WALL - 12V • Used For: Exterior Scene Lights	2 ea	\$60 PKG
RECEPT - INTERIOR - 120V - 15A • GFCI PROTECTED WHERE REQUIRED BY CODE	4 ea	\$176 PKG
RECEPT - EXTERIOR - 120V - 15A - GFI PROTECTED	1 ea	\$58 PKG
LIGHT - RECTANGULAR - LED - 18" - 12V - RECESSED - W/ TRIM RING	8 ea	\$1,048 PKG
SWITCH - WALL - 3 WAY - 12V • USED FOR: LIGHT - RECTANGULAR - LED - 18" - 12V - RECESSED - W/ TRIM RING	1 pr	\$78 OPT
SWITCH - RELAY - 12V - 30A	2 ea	\$68 OPT
GENERATOR COMPARTMENT - INSULATED W/ ALUMINUM COUNTERTOP • GEN DOOR NOT INCLUDED • INCLUDES GALVANIZED LINER • COLOR: Victory Red	1 ea	\$685 OPT

PLUMBING & LP

LP TANKS - (2) - 20# - W/ TRAY AND MOUNTING BRACKETS	1 ea	\$658 OPT
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HEATING & AIR CONDITIONING

A/C - 15,000 BTU - LOW PROFILE - 10.5" - BLACK	1 ea	\$1,582 OPT
THERMOSTAT - A/C - MOUNTED TO WALL - WHITE	1 ea	\$360 OPT
FURNACE - DUCTED - 35000 BTU - LP • DUCTING FOR FURNACE THROUGH CABINETS • THERMOSTAT INCLUDED	1 ea	\$800 OPT

CUSTOM OPTIONS

INCLUDE DIVIDERS IN OVERHEAD CABINETS AND BENCH SEATS PER CUSTOMER LOCATIONS. TO SEPERATE STORAGE LOCATIONS.	1 ea	
SHELVING - ALUMINUM TUBE - FULL HEIGHT - 72"W X 24"D	1 ea	\$1,410

4 SHELVES W/ 2" FRONT LEDGES - ADVANTECH COVERED W/ MILL FINISH

ONAN QUIET PROPANE RV GENERATOR (FOR PORTABLE APPLICATIONS) 6.5KW	1 ea	\$5,500
DELIVERY INCLUDED TO ST CHARLES, IL	1 ea	\$200
SLIDE IN/OUT - NON SLIP GRID STEP - ALUMINUM AT REAR DOOR	1 ea	\$422
5 CYLINDER SCBA STORAGE CABINET W/ INTERIOR ATP DOOR	1 ea	\$2,500
CUSTOM BUNGEE NET FOR FRONT WALL CABINET - INCLUDES TIE DOWNS	1 ea	\$891
BRACKET - WALL MOUNT - FOR SCBA AIR TANK WELDED BACKER PLATE INCLUDED	10 ea	\$2,930
HEAVY DUTY ALUMINUM GRAB HANDLE AT SIDE DOOR	1 ea	\$30
R-11 CEILING INSULATION	22 ft	\$352
28" DOOR BUILT INTO REAR RAMP	1 ea	\$1,270
FLOOR DRAIN - SIDE TO SIDE CHANNEL BETWEEN BENCH SEATS	2 ea	\$1,050

ADJUSTMENTS

DISCOUNT ON OPTIONS

(\$3,000)

Total \$54,870.00