

ACELA

TRUCK COMPANY

Acela Monterra 6x6 Multi-Mission Truck





Monterra 6x6 High Water Rescue
VEHICLE SPECIFICATIONS
Venice Florida Fire & EMS

Dimensional Data

Width	96 in	(2,438 mm)
Height	112 in	(2,845 mm)
Length	270 in	(6,859 mm)
Wheelbase	161 in	(4,100 mm)
Turning Radius	56.4 ft	(17.2 m)
Cab to Axle 1	115.5 in	(2,934 mm)
Pintle Height (Laden/Unladen)	33/36 in	(838/905 mm)

Ground Clearance

Loaded	22 in	(559 mm)
Under Axle	14.4 in	(365 mm)
Approach/Departure Angles*	40°/70°	
Curb Weight (with Fuel)*	18,446 lb	(8,915 kg)
GVWR*	46,500 lb	(22,226 kg)
Payload*	30,000 lb	(31,607 kg)
Maximum Towed Load	21,000 lb	(9,526 kg)
Maximum Speed (Standard Gearing)	58 MPH	(93km/h)
Maximum Speed (Optional High-Speed Gearing)	68 MPH	(109 km/h)
Fuel Tank	58 gal	(220 L)
Range (Optional Long-Range Fuel Tanks Available)	400+ mi	(645+ km)
Maximum Grade/Side Slope	60% / 30%	
Water Fording Depth (Optional 50" Fording Kit Available)	30 in	(762 mm)

EQUIPMENT SPECIFICATIONS

Engine

Caterpillar 3126/C7*	6-Cylinder, 7.2 L, Electronically Controlled, Fuel Injected, Turbocharged and Aftercooled, EPA Certified
Rating	330 HP (246 kW) @ 2400 RPM
Displacement	441 cu in (7.2 L)
Torque	860 ft-lb (1,166 Nm) @ 1440 RPM
Fuel Type	Diesel
Lubricant	15W40, Synthetic Blend

Transmission

Allison MD 3700/3070SP

Full-Time AWD

Torque Split

Lubricant

Automatic, 7-speed, Electronically-Controlled, Power Take Off

Integral Transfer Case

Normal Operations: 30% Front / 70% Rear

Off-Road Mode: 50% Front / 50% Rear

ATF, 31.8 qt (30 L)

Axles, Meritor RF-611 Series

Front

14,700 lb (6,350 kg) GAWR

Intermediate

16,661 lb (1,618 kg) GAWR

Rear

16,661 lb (1,618 kg) GAWR

Locker

Automatic, Detroit Style, Rear Axle

Carrier

Single Reduction, Ambiod-Gearing

Wheel End

Bevel Wheel End Reduction, Ratio 2:1

Final Gear Ratio

Standard: 7.80:1

(Optional: 6.14:1 Available)

Front Axle

35°

Steering Angle

Power Assisted, Recirculating Ball, Adjustable Tilt Wheel

Steering Suspension

Parabolic-Tapered Leaf Springs with Hydraulic Twin-Tube Shock Absorbers

Brakes

Primary

Dual-Circuit, Four-Channel Air, Anti-Lock Braking System (ABS)

Supplement

Air-Actuated, Driver Controlled Exhaust "Jake" Brake

Tires

46 in Military Grade Tires

Spare

Ships loose in body

Central Tire Inflation System (CTIS), Dana/Eaton - Optional

General

Cab--Mounted Electronic Controls, Operable While Driving in Highway, Cross-Country, Sand/Mud/Snow, and Emergency Modes

Pressure Range

17-85 PSI (1.1-6.6 Bar)

Electrical

System

Dual Voltage, 12/24 VDC, Central Power Distribution

Alternator

24 V/185 A Alternator, 24V-12V/50A Converter/Battery Charge Controller

Starter

24VDC, Waterproof

Batteries

(4) 6TL Commercial Batteries, 3000CCA, 480 CA (Combined)

Cab

General

Extended Cab-Over Design

Trim

Commercial-Grade Trim Package, Heavy Duty Heat and Sound Insulation

Entertainment	AM/FM/DVD 6.2" Touchscreen Stereo
Seating	2-Person, Adjustable, High-Back, Air-Ride Seats (3-Person Optional)
Mechanical Access	Hydraulic Tilt
Power	(2) 2.1A USB Power Ports, (1) 12VDC Cig. Style Plug
HVAC	47,000 BTU/Hr (13.8 kw) Heating Capacity 29,900 BTU/Hr (8.8 kw) Cooling Capacity Airflow 334 SCFM 9.5 m/min

Additional Chassis Options

- High Speed Gearing
- Deep Water Fording Kit
- Safety Style Entry Steps
- (2) NMO Style 2-way Radio Antenna Mounts, Pre-Wired
- Safety Style Entry Steps
- Back-Up Alarm
- Back-Up Camera
- Upfitter Auxiliary Dash Switch
- PIAA driving Lights
- Front Winch
- Kussmaul 120V/15 A Battery Charger with Auto Eject
Kussmaul Air Auto-Eject System

Whelen Standard Light Package

- Zone A Upper 72" Freedom IV Duo WCX Lightbar, Red/White, Full Blood
- Zone A Lower (2) M6 Duo Red/White, Chrome Flange
- Zone B Upper (Aft) (1) M6 Red, Chrome Flange
- Zone B Lower (Fwd & Aft) (2) M6 Red, Chrome Flange
- Zone C Upper (2) M7 Amber/Red
- Zone C Lower (2) M7 Red/Amber
- Zone D Upper (Aft) (1) M6 Red, Chrome Flange
- Zone D Lower (Fwd & Aft) (2) M6 Red, Chrome Flange

Siren

- CenCom Core Siren Controller, Remote CCTL6 Control Head
- 100W Speaker

FireTech/HiViz Standard Scene Light Package

- (4) FireTech Guardian Junior Scene Lights, L & R Sides on Upper Body- Chrome
- (2) WL-X-5 (Black) Scene Lights on Rear Body

Brow Light Package

- Fire Tech 46", Black, Mounted 36 LEDS. 19,008 LM. Spot/Flood/Scene. BLACK. L-Shaped Mounting Kit

Under Body Light Package Tecniq E10 x 8

- Eight (8) Tecniq E10 under body lights, switched in the cab (total of 8 lights)

Custom Flood Rescue Body Specifications

- Custom 20' x 8.5' aluminum high-water/flood rescue body
- Integrated staircase with handrails and flip-down seating - front and right-side water tight aluminum seat boxes with cushions
- OSHA-compliant safety gate at top of stairs
- LED lighted stepwell
- 46" aluminum bulkhead and sidewalls
- Fold-down aluminum seating (seats approximately 26 people)- bench style seating across the forward portion of the truck bed
- (6) Flush-mount heavy-duty cargo tie-downs in bed floor
- Non-skid bed liner applied to bed floor
- (1) Set, Q-Straint wheelchair tie-down anchors and straps, w/strap storage bags, instructional poster (*additional wheelchair tie downs available)
- Safety placards
- LED bed work lights - Blue interior lighting perimeter of bed
- LED rear scene/reverse lights
- LED marker/clearance/STT lighting
- Mudflaps and brackets
- Vertical exhaust stack, stainless steel and chrome
- Spare tire rack delete (Spare tire ships loose) Tuck-away-style 3,000 Lb. liftgate with 60" x 84" aluminum platform
- Red/lime chevron pattern on stowed liftgate and rear bumper
- Stationary Vinyl Canopy with front panel window zipper need to have 1/4 turn commonsense snap on outside
- Liftgate rails - 42-inch high (OHSA minimum) will drop into pockets located on the liftgate platform, street and curbsides. Rails will stow on rear of truck when not deployed.
- There is an additional camera in the body, facing rearward. A dash-mounted switch allows the operator to toggle between the primary (reverse) camera and the secondary (body) camera.
- Four (4) 12V, IP55-rated 150 CFM 3-speed marine fan - mounted to body
- Firecom System - 4-position Firecom wireless system. This setup includes all necessary component to communicate hands free in and out of the cab
- Pre-wire for 650-gallon Skid

Pre-Construction meeting held virtually

On-Site Final Inspections

Final inspection in Bozeman, Montana, for two (2) Venice Fire Representatives. Includes coach airfare, hotel and rental car for two (2) nights and three (3) days.

On-Site Training

Two Day On-Site Training with Acela Technical Trainer - Up to 40 Participants at Venice Fire location

650-GAL Slip-In Spec

QTY	DESCRIPTION
1	650 Gallon Water Tank 96 OAL x 54 OAL x 58
1	Honda GX340 Engine (Electric Start)
1	CET PP1-002 Centrifugal Pump
1	Manifold Outlet
1	1" Tank Fill, Fire-Style Ball Valve
1	1 1/2" Discharge, Fire-Style Ball Valve with Cap and Chain
1	Suction Inlet: Two (2) 2 1/2" Fire-Style Ball Valves
1	Hannay Electric Rewind Hose Reel 1" x 150' (ESF20-30-31-RT), Chrome Outriggers with 3-Way Rollers, 150-Feet 1" Fabric Booster Hose
1	Poly Pre-Connect Hose Tray, Holds 200-Feet 1 3/4" Hose, 90- Degree 1 1/2" Swivel



80 Shire Trail
Bozeman, MT. 59718
(406) 924-3535 (800) 940-0540

QUOTE

XXXXXXXXXXXXXXXXXX

Contact
Venice Fire & Rescue

Sales Person

Quote Creation Date
Quote Valid Until
Estimated Delivery Date
Paint Code

Item & Description

1100 - 6x6 Acela Monterra GL Chassis Cab (SWB)

1039 - GVWR 44,650 Lbs. (20,253 kg) Package - 6x6

Front GAWR: 13,000 lbs. (5,897 kg), Int. GAWR: 16,661 lbs.
(7,557 kg), Rear GAWR: 16,661 lbs. (7,557 kg), GCWR: 65,650 lbs.
(29,778 kg)

1032 - High Speed Gearing (6x6 Models)

High-Speed Gearing (6x6 Models) Provides final gear ratio of 3.07:1 and top speed of 68MPH

1036 - Deep Water Fording Kit (6x6)

Increases water fording capabilities from 30 inches (762 mm) to 50 inches (1,168 mm) - 6x6 Chassis

1053 - Safety-Style Cab Entry Steps

Includes MSHA-compliant exterior entry steps

1209 - New Tires - GoodYear Brand New - Fire Market 6x6

Max speed 68 Miles per hour

1239 - Center Console

Includes Universal 20-Inch (8-Inch Sloped and 12-Inch Horizontal) Console Located Between Driver and Officer Seats. Includes (1) Cigarette Power Port and Faceplates for Radio (Specify), Siren Controller (Specify), Cup Holder and Large document/Notebook Storage Area. All Other Slots are Filled with Blank Faceplates. Console is Pre-Wired with 12VDC Power to a 6-Position Fused Power Distribution Block. If Vehicle is Ordered with NMO Antenna Mount(s), Siren Controller and/or Upfitter Switch Option Packages, Each Will Be Located in Console. Deletes Center Seat.

1037 - Back-Up Alarm

Includes 100db waterproof commercial back-up alarm (temporary-mounted for custom body placement).

1057 - Back-Up Camera System

Includes infrared commercial back-up camera, 70-feet of cable, 6.2-inch monitor (temporary-mounted for custom body placement).

1047 - Upfitter Auxiliary Dash Switch Pre-Wire

Provides eight (8) backlit rubber push buttons on instrument panel, each programmable to On/Off or Momentary action. Remote 12VDC power module is pre-wired with three (3) fused 10A outputs and five (5) 0.2A outputs.

Item & Description

1062 - Custom Exterior Paint Color

Match cab paint color to customer specification.

1096 - Whelen NFPA Lighting Package Chrome

Whelen NFPA -1901 Compliant warning light/siren/Chevron package, light bar frame and surface- mount light bezels (detailed list on specification).

1017 - PIAA Driving Lights

Includes (2) PIAA LP550 5-3/16-Inch Round LED Driving Light Lamps, Mounted in Bumper. Requires Option 1047, Upfitter Auxiliary Switches

1056 - NMO-Style 2-Way Radio Antenna Mount, Pre-Wired

Includes (2) NMO-style antenna base installed on cab roof, non-terminated RG58 cables run to dash area. Priced each.

1048 - Front License Plate Bracket

License plate bracket permanently mounted to front grille.

1261 - Custom 6x6: Standard High Water Flood Rescue Body with Liftgate - Sarasota

includes front storage bench seating.

1194 - Stationary Canopy for 6x6

Vinyl Canopy with zippered windows

1193 - FireTech/HiViz Standard Scene Light Package

(2) FireTech Guardian Junior Scene Lights, L & R Sides on Upper Body (Designate Black or Chrome Bezels), (2) WL-X-5 (Black) Scene Lights on Rear Body

1094 - Flood Rescue Body Paint

Paint body to customer specification

1069 - Front Winch

Includes front-mounted Sherpa “Steed” 17,000 lb. winch with 6.6HP motor coupled with a 3-stage planetary gearbox. Winch has 90-feet of synthetic rope and aluminum hawse, wireless remote control, neoprene cover and 5-year manufacturer’s warranty. Custom winch housing attaches to forward shackle mounting points.

1050 - Custom Feature on Monterra

(4) 12V, IP55-rated, 150CFM 3-speed marine fan - mounted in body.

1240 - Secondary Camera

Additional camera in body, facing rearward. Dash mounted switch allows operator to toggle between primary (reverse) camera and secondary (body) camera

1050 - Custom Feature on Monterra

Firecom Package

1050 - Custom Feature on Monterra

Custom Graphics

1200 - Kussmaul 120V/15A Battery Charger with Auto-Eject (Yellow Housing), Mounted Driver Side of Cab

Kussmaul 120V/15A Weatherproof Auto Eject 24V Battery Charge Controller Kit with LED Charge Indicator, Cab Mounted, Driver Side, Yellow Housing

1201 - Kussmaul Air Auto-Eject System (140PSI), Blue Weatherproof Adapter Kit

Kussmaul Air Auto Eject System, 24V, Mounted Driver Side Aft of Cab, Blue Housing (Includes Station-Side Supply Line Quick-Connect Fitting)

Item &	Description
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2804 - 650- Gallon Slip In Unit

650 gallon tank 96 OAL x 54 OAL

Manifold outlet

1" fire-type tank fill IPO industrial valve

1 1/2" Fire type ball valve service line with cap and chain

Suction inlet

Standard suction with two 2 1/2" fire grade ball valve

Electric rewind hose reel 1" x 150' (ESF20-30-31-RT) Set of chrome outriggers w/ 3 way rollers

1" fabric booster hose (price per feet)

Poly pre-connect hose tray to hold 1 3/4" x 200'

90 degrees 1 1/2" swivel

1002 - On-Site Final Inspection

Final inspection for two (2) Sarasota Fire representatives at Acela factory for in-person

final inspection of a truck in Bozeman, MT. Includes Coach Airfare, hotel, and rental

car for two (2) nights & three (3) days.

1109 - On-Site Monterra Training

One Day On-Site Training with Acela Technical Trainer - Up to 40 Participants

Shipping and Handling outbound - Shipping and Handling

Shipping from Bozeman, MT. to Venice, FL

Total

\$ 412,645.00

NOTES : 50% Deposit Due at Signing or 2% discount applied to total if paid in full at receipt of order.

Terms & Conditions: This Quotation is subject to all terms and conditions found at www.acelatruck.com/terms

(800) 940-0540 | Acela Truck Company | www.acelatruck.com

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REVISIONS

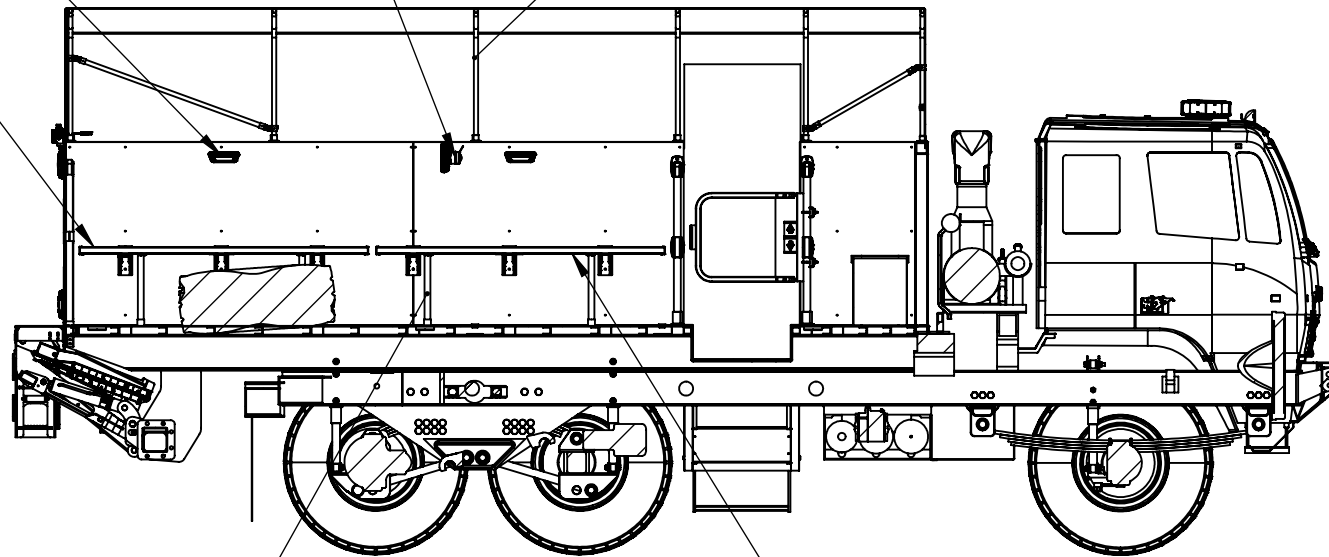
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-	INITIAL RELEASE	6.26.25	PY

KONA 12V FAN 6817209

WHELEN PEL2B
BLUE LIGHT

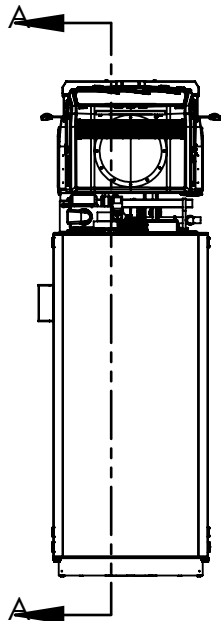
CANOPY BOW

BLEACHER BENCH 1

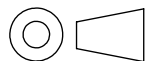


TESTRITE LEG

BLEACHER BENCH 5

SECTION A-A
SCALE 1 : 48

3RD ANGLE PROJECTION



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NONE

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6.26.25

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SARASOTA FLOOD
RESCUE INSTALL

REV

SCALE: 1:128

SHEET 1 OF 15

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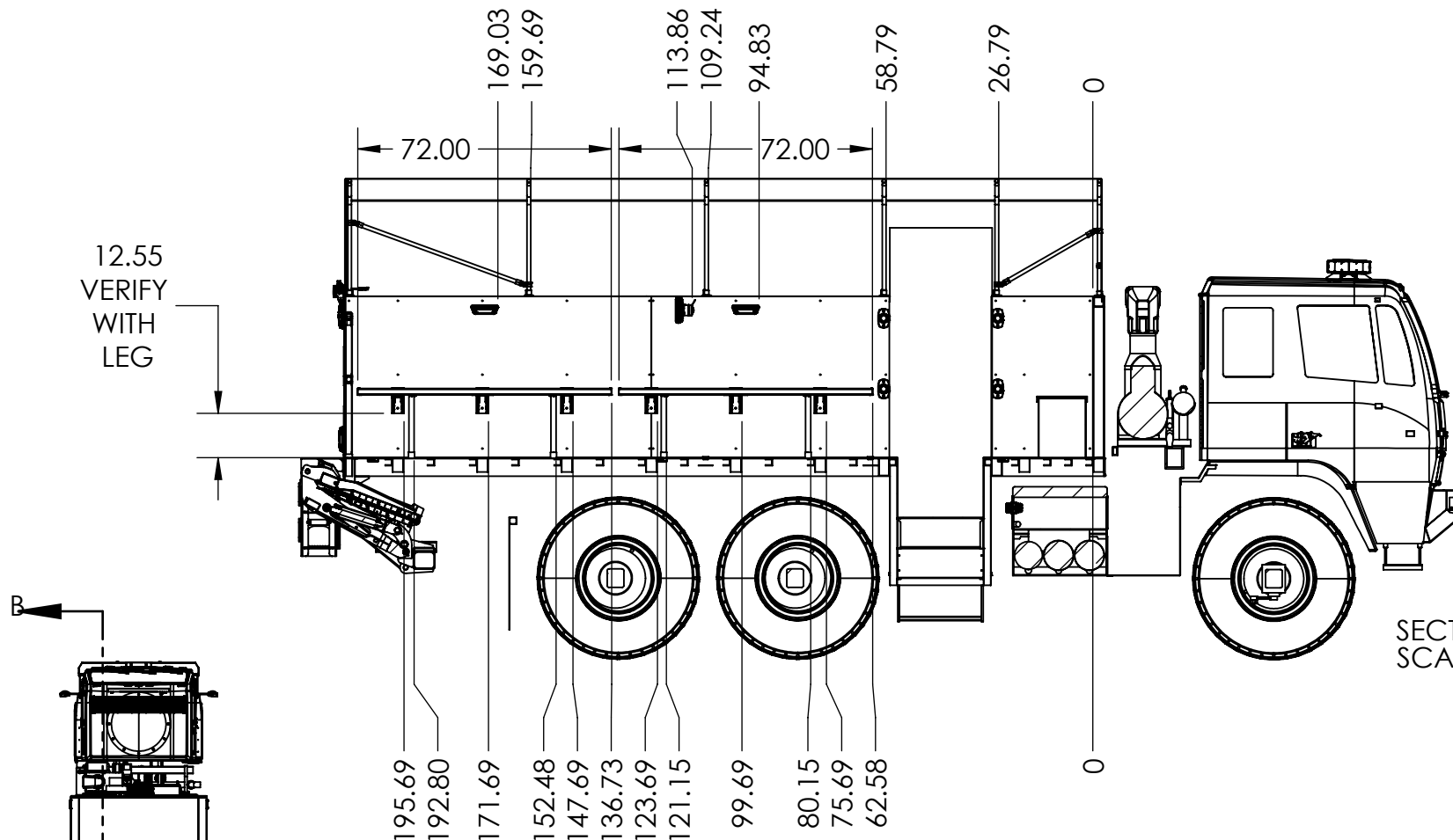
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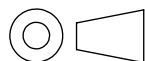
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REVISIONS

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3RD ANGLE PROJECTION



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ACELA
TRUCK COMPANY

DESCRIPTION:

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RESCUE INSTALL

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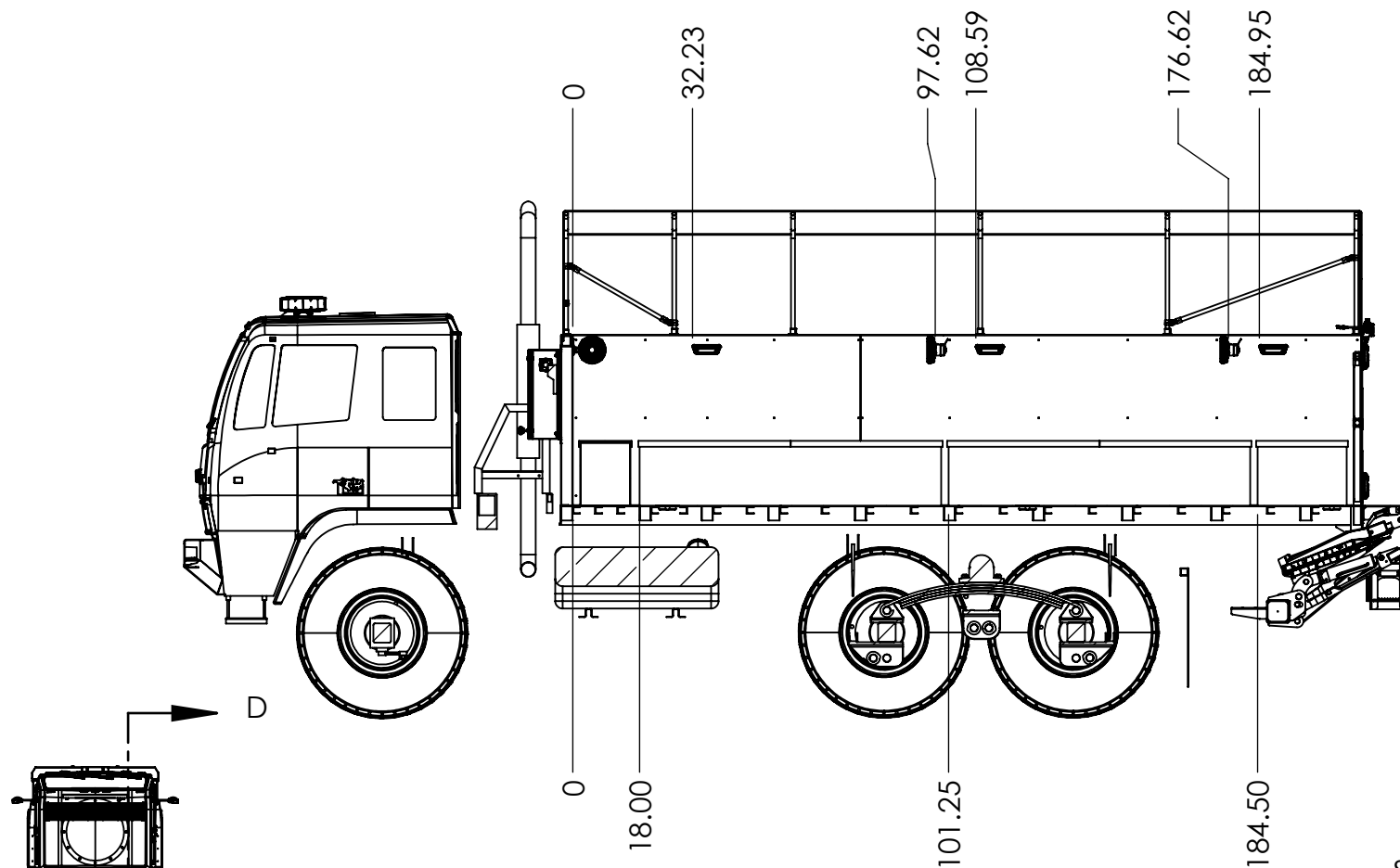
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SHEET 2 OF 15

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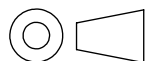
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SECTION D-D
SCALE 1 : 48

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SARASOTA FLOOD
RESCUE INSTALL

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SCALE: 1:128

SHEET 5 OF 15



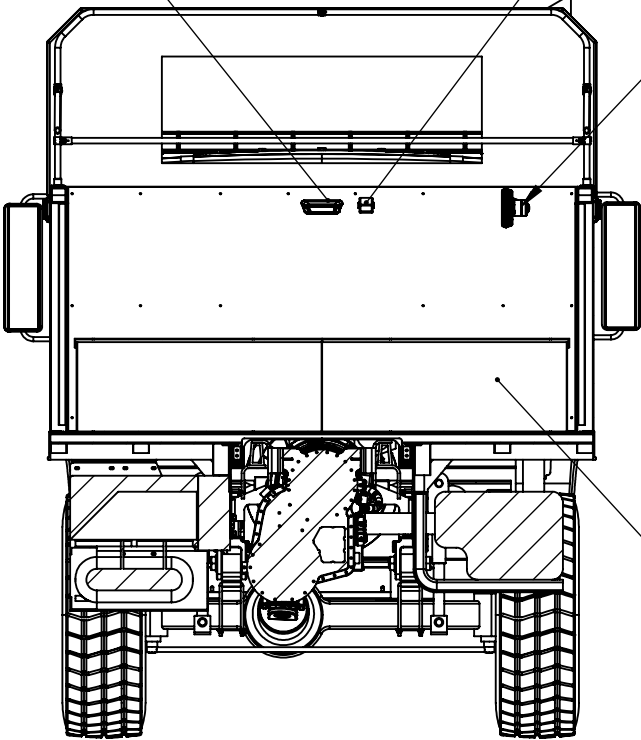
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WHELEN PEL2B BLUE LIGHT

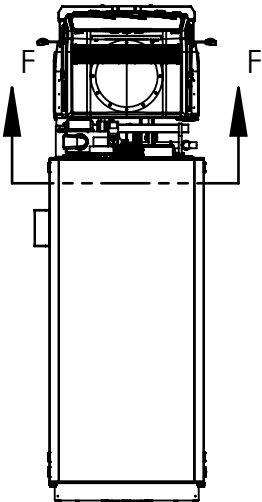
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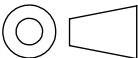
KONA 12V FAN 6817209

UNDER SEAT BOX

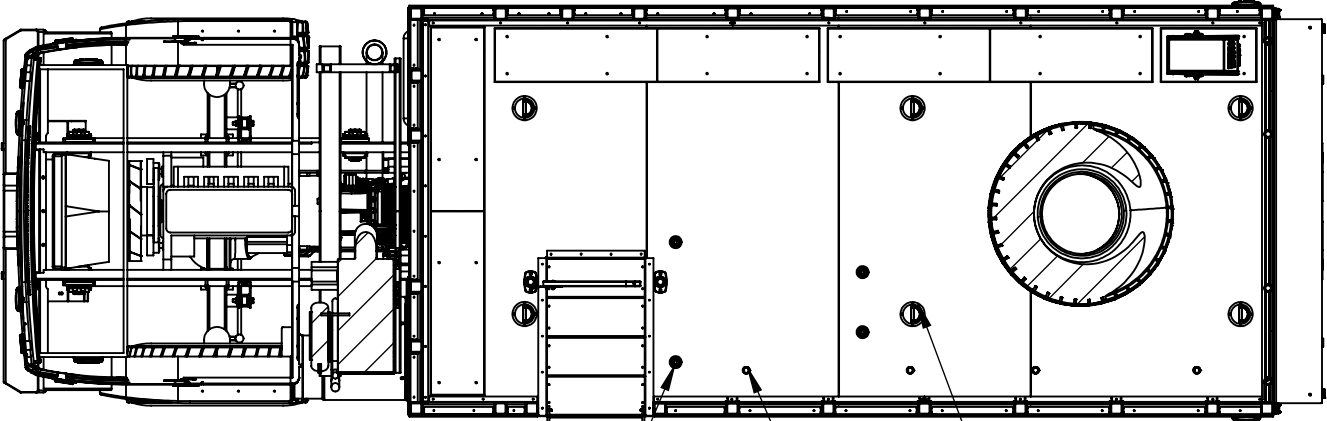


SECTION F-F
SCALE 1 : 36



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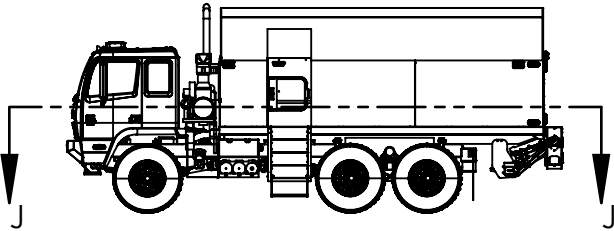


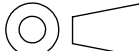
SECTION J-J
SCALE 1 : 48

Q-STRAINT BRACKETS

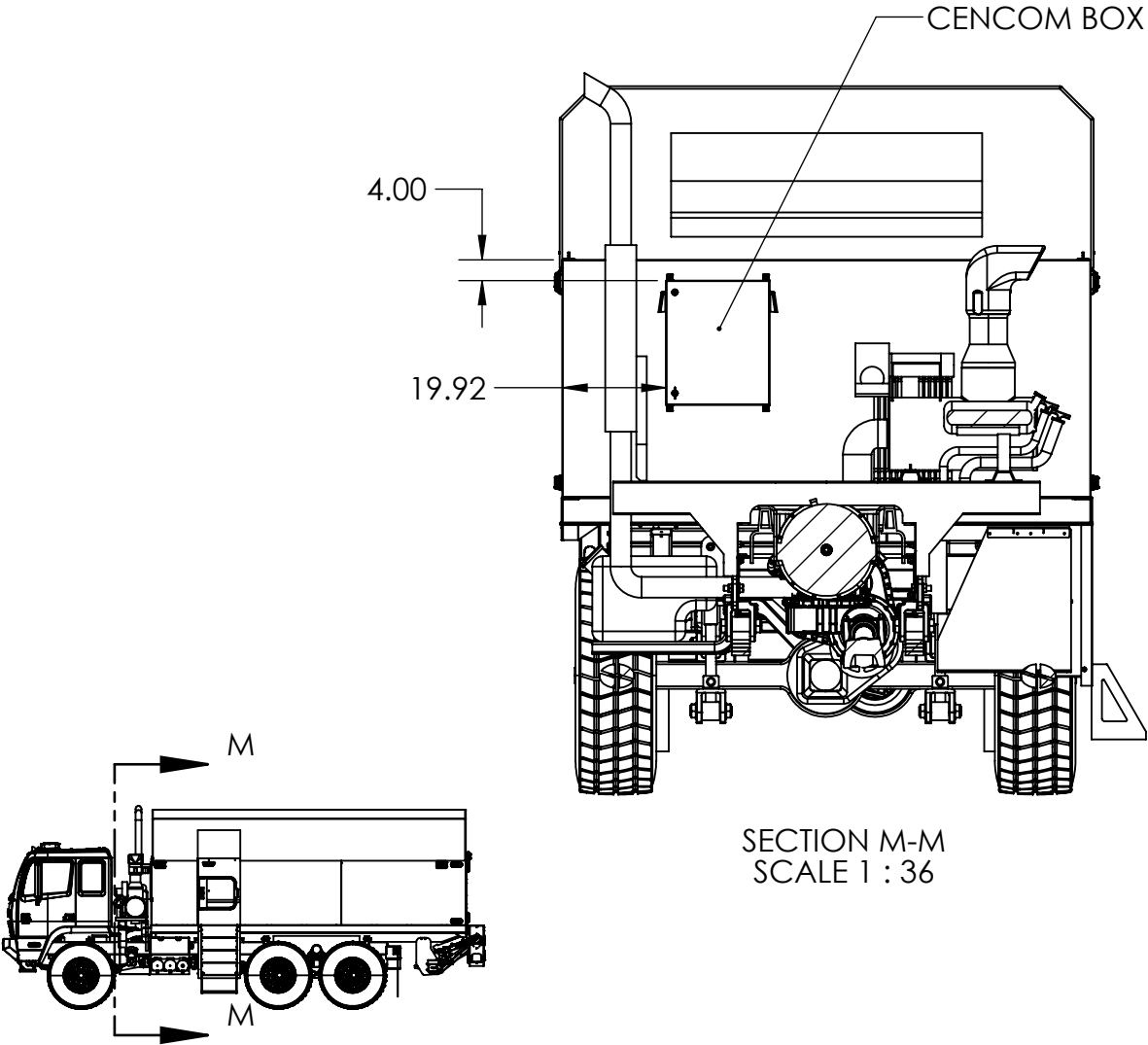
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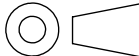
TESTRITE LEG - DISREGARD



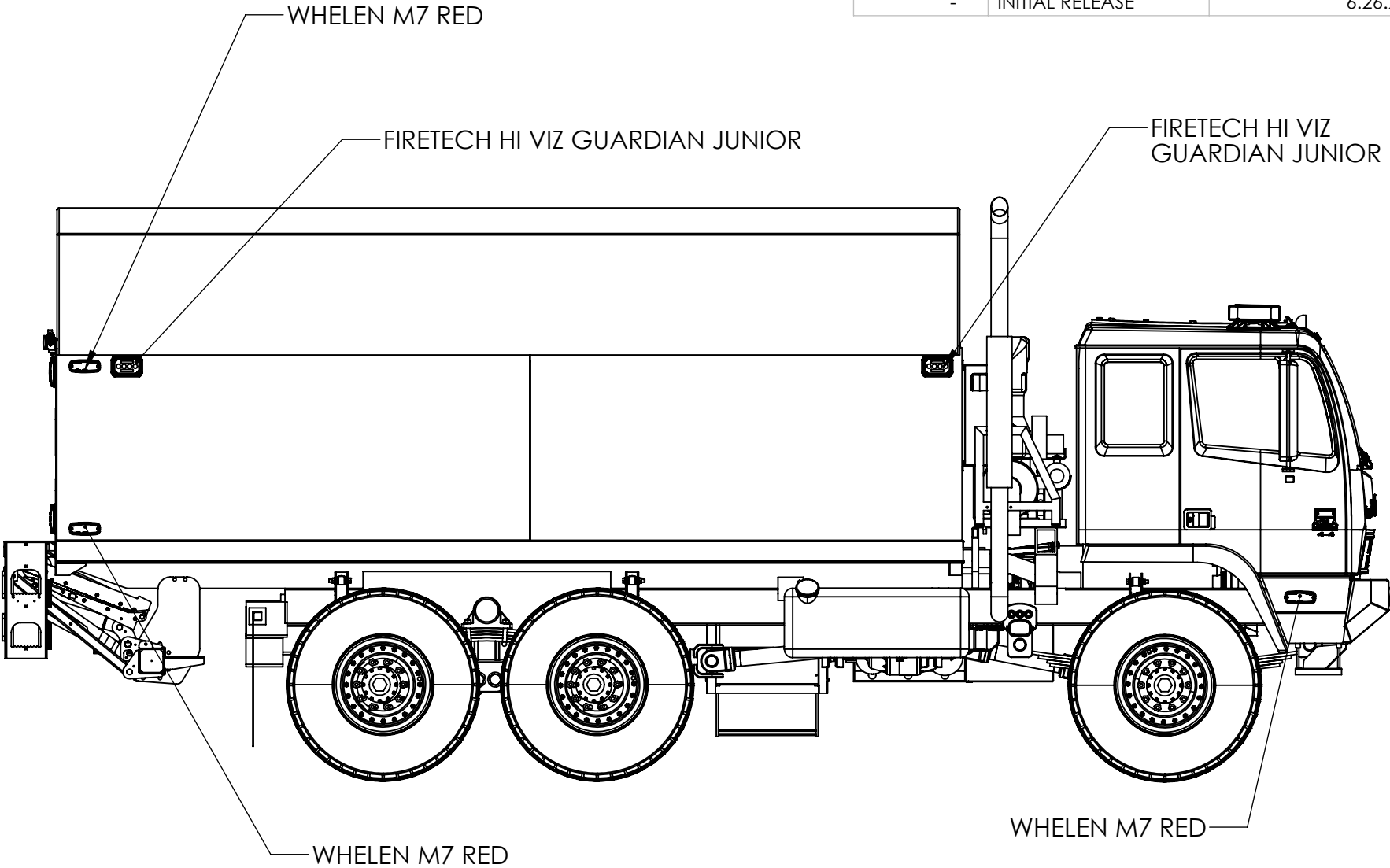
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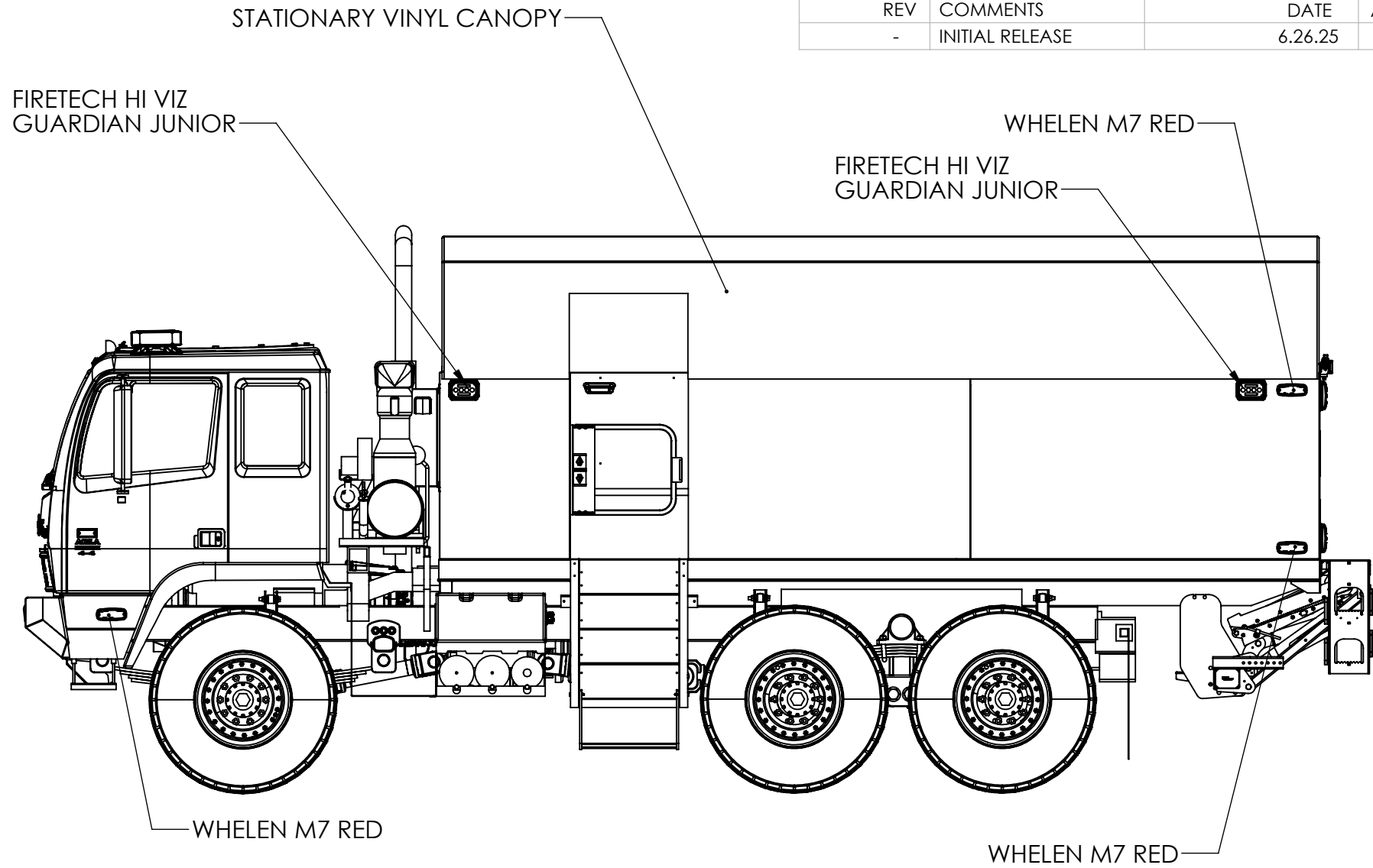
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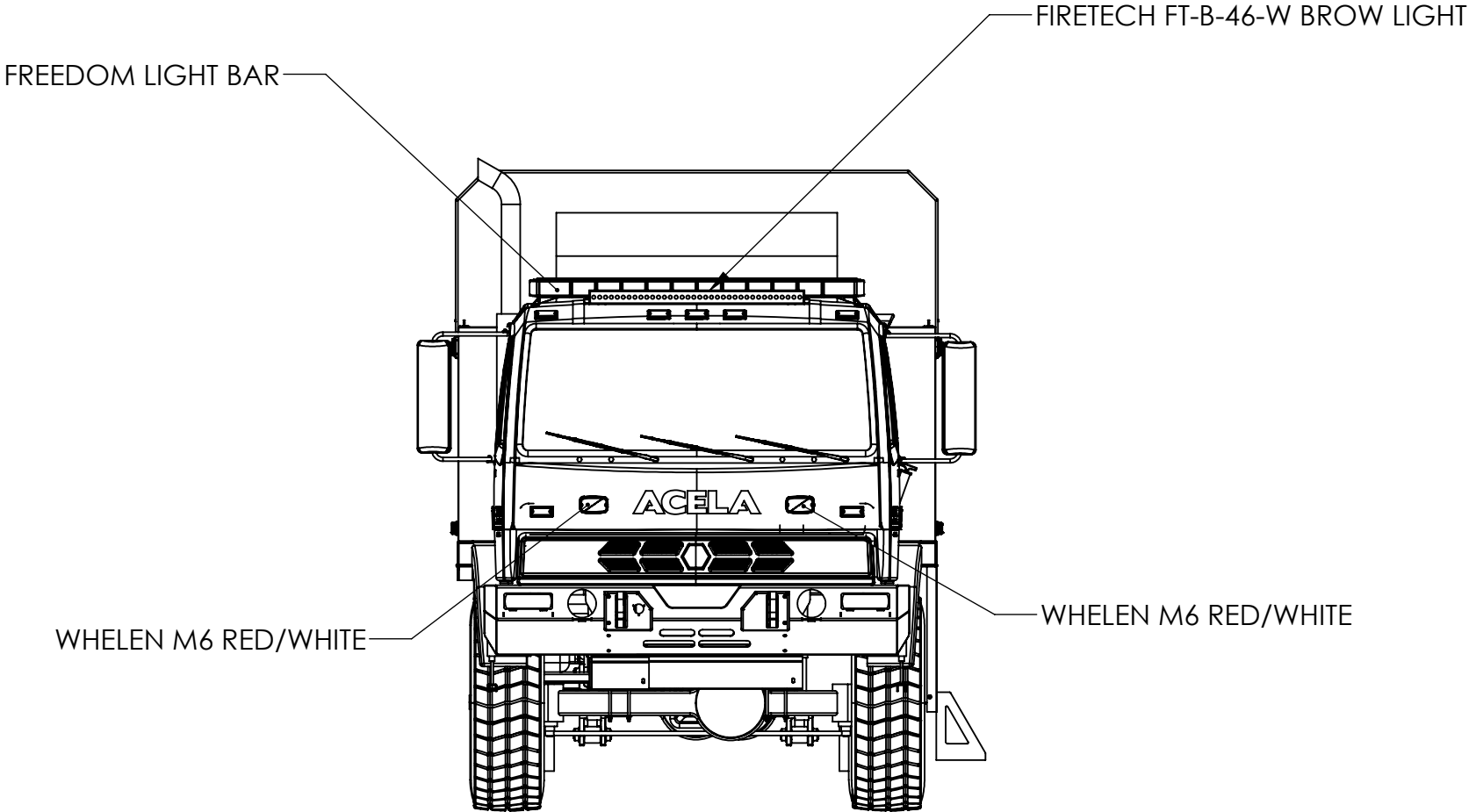
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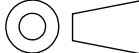


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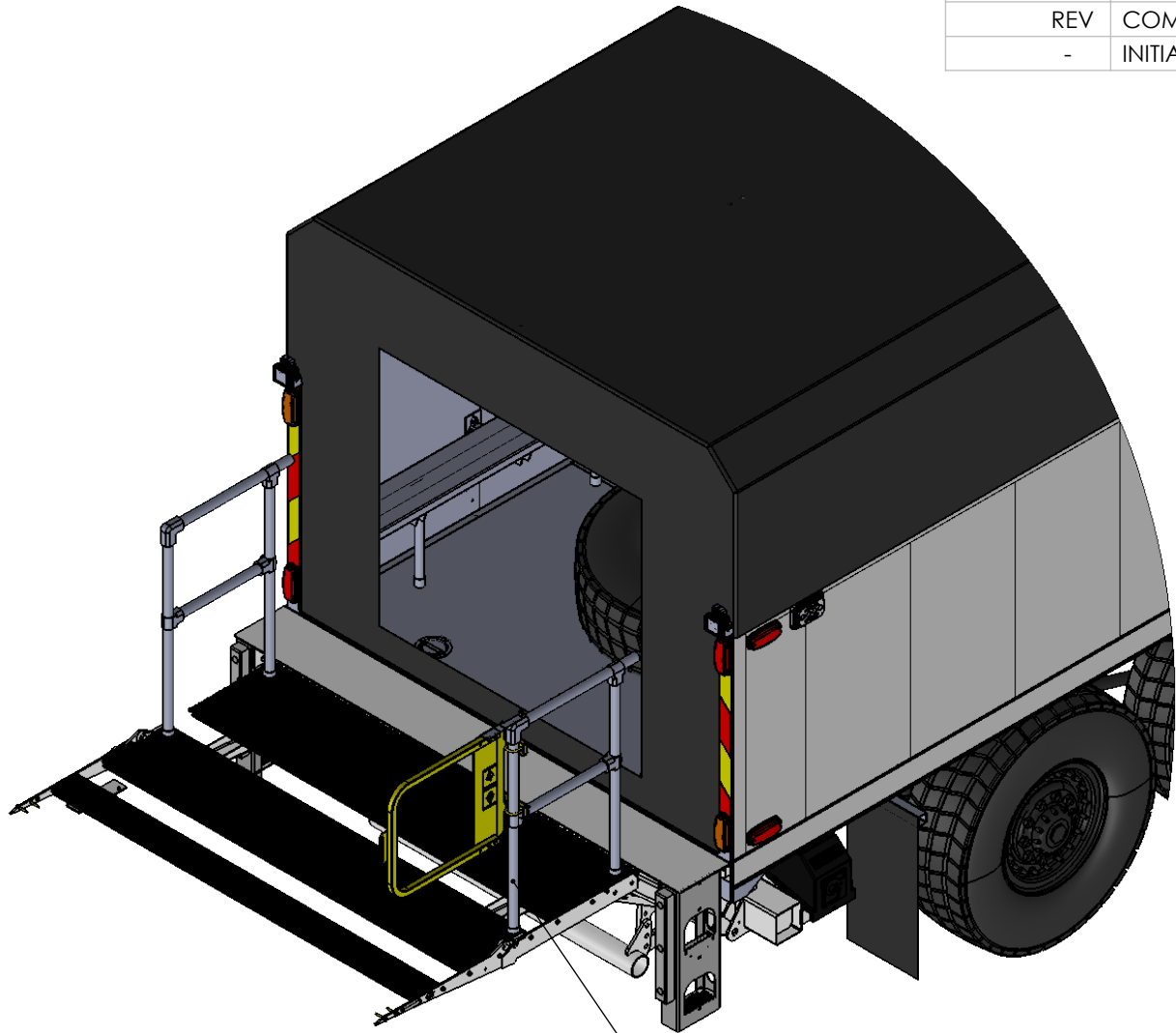


3RD ANGLE PROJECTION 	UNLESS OTHERWISE SPECIFIED:		NAME	DATE	DESCRIPTION:		
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		SARASOTA FLOOD RESCUE INSTALL					
		SCALE: 1:128			SHEET 14 OF 1		

N/A
NONE



SARASOTA FLOOD
RESCUE INSTALL



REVISIONS			
REV	COMMENTS	DATE	APPD
-	INITIAL RELEASE	6.26.25	PY

LIFT GATE HANDRAILS
DETAILS IN SEPARATE DRAWING

3RD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED: 0.X ± 0.1 0.0X ± 0.01 0.00X ± 0.005 ANGULAR ± 1°		NAME	DATE	DESCRIPTION:	
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	MATERIAL					
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		PART NO.		REV		
		SARASOTA FLOOD RESCUE INSTALL				
		SCALE: 1:128		SHEET 15 OF 15		











Proprietary High Water Fording Kit Explained

Understanding The Original LMTV and FMTV Military Truck Water Fording Capability

When the LMTVs and FMTVs were originally manufactured the water fording capabilities were quite limited and maintenance intensive. According to the US Army Technical Manuals: "The vehicle can ford water up to 30 in. deep for 15 minutes without damage or requiring maintenance before operation can continue."

If vehicle will be operating in water 30 in. or of unknown depth, flywheel housing vent plug must be installed. Failure to comply may result in damage to equipment.

- (1) Remove flywheel housing vent plug (1) from stowage mount (2).
- (2) Install flywheel housing vent plug (1) in flywheel vent hole (3).

Lubrication After Fording -If a fording operation occurs, lubricate all fittings below fording depth and check submerged gear boxes for presence of water.

What Happens to the Truck If I Don't Have High-Water Fording Capability

If a truck does not have a high water fording kit and it is necessary to ford up to 30" of water, the driver will have to stop, crawl underneath the truck, remove and fit a plug into the flywheel housing, limit the fording to 15 minutes or damage the vehicle, remove and replace the flywheel housing plug when finished fording and then manually check all gear boxes (up to 9) and lubricate all submerged fittings.

Fording over 30 inches (without the Acela Monterra fording kit) will introduce water into all gear boxes, the fuel tank, the transmission, the CTIS system and the brake system which can lead to a catastrophic failure in the field.

What Does Acela's High Water Fording Kit Provide:

The Acela Monterra high-water fording kit increases the FMTV's fording capabilities from 30" to 50". We achieve this by extending all the axle vents, brake vents, fuel tank, transmission and CTIS vents to a manifold that sits 85" inches off the ground.

When the water fording switch is engaged it not only kills power to the engine fan and the transmission cooler fans on a 6x6, it also kills the air conditioner condenser fans and closes the drain valve on the transmission bell housing.

The Monterra High Water Fording Kit takes out the manual operation of originally designed trucks and allows for fording of additional 20".



CERTIFIED RESET PROGRAM™



Like-New Vehicle at a Fraction of the Cost

Acela's rigorous and proprietary Certified Reset Program™ is no make-over. We perform over 300 key inspections, full drivetrain diagnostics, provide a total cab and chassis teardown, prep and paint every vehicle component and upgrade or replace over 600 new OEM-certified parts according to strict, vetted processes, ensuring that our clients receive a like-new vehicle at a fraction of the cost of new.



- *More than 300-point tests and inspections including full OEM computer diagnostics*
- *The replacement of over 700+ parts.*
- *Our certified Reset Program is backed by our limited warranty.*
- *Certified Acela Truck Mechanics and Technicians.*
- *Our trained technicians work in a strictly controlled, process driven manufacturing environment utilizing lean manufacturing principles to eliminate errors and to meet the highest standards of quality.*
- *Genuine OEM parts from Caterpillar, Allison, Meritor, Goodyear, Dana, Parker, Donaldson and more.*

1. *Inspection/Evaluation*

We start by diagnosing every system and component on the vehicle through an exhaustive 300-point inspection process. Major components are scanned using state of the art diagnostic equipment. Any mechanical issues are addressed and sub-standard parts are replaced with new.



2. *Tear-Down*

During the tear-down process, trucks are disassembled for complete overhaul. The cab and nearly all frame-mounted parts are removed, inspected and carefully cataloged. Cabs, chassis and take-off parts are then moved down the production line to our Paint, Electronics, Driveline, Axle and Finishing Shops for further breakdown, inspection and rehabilitation.

3. *Paint and Body*

As part of our standard reset process, each cab is completely dismantled down to sheet metal. All seals, glass, doors, door componentry, interior and dash components and electrical harnesses are removed. Cabs and cab components are meticulously rehabilitated using state of the art body repair and painting techniques and equipment. Cabs are then reassembled in a “white glove” environment for installation of all new interior seating, floor mats, heat and sound insulation, paneling, lighting, electronics, digital instrumentation, etc. Chassis and take off parts go through a similarly intensive process to ensure that they perform and look like new.

4. *Rebuild*

Once each department has refurbished all components, all hoses, belts, seals, gaskets, knobs, switches and gauges are replaced. Other parts are inspected and measured against strict ATC and/or OEM guidelines. All parts that are out of specification are replaced. All fluids are flushed and replaced with new OEM-certified fluids. Wheels are completely rebuilt and mounted with new tires. In total, more than 600 parts are replaced in every Monterra.



5. *Performance Testing*

Quality control during the entire Certified Reset Process is paramount. All critical torques, clearances and pressure settings are set to specification, and recorded during the reset process. After re-assembly is complete, we put our “like new” trucks through a battery of quality assurance, diagnostics and road tests.

6. *Exceptional After-Sales Support*

Your satisfaction is always our number one priority, that's why your team is key to the final step. The ATC Certified Reset Program is not complete until you are satisfied with the performance of your truck in its working environment.

Our AcleaCare After Sales Support program is committed to maximizing the productivity of every truck in your fleet by offering 24/7 maintenance support and next day delivery on virtually every part. Acela Truck Company has partnered with some of the largest automotive and defense companies in the world to ensure our customers have the right parts at the right time.



TAKING YOU FURTHER

CONTACT US

◆ (800) 940-0508

◆ support@acelatruck.com

