



## Shop Order

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<p><b>Sales Rep:</b>          Ryan Stacey          Metalfab Ltd.</p> <p><b>Drawing #:</b> FT-10810  <b>Est. Delivery Date:</b> / /  <b>Customer PO #:</b>  <b>Customer #:</b> 983  <b>QPF #:</b></p>	<p><b>Terms:</b>          Chassis Net 10 days          Body and Equipment COD</p> <p><b>Penalty:</b>          None</p>
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**Quote No:** 10007-0020  
**Job/Order No:** 19657  
 09/14/2017

PART NO	QTY	DESCRIPTION
	1	== <i>Metalfab Pumper - NFPA 05/13 - 0.000</i> ==
	1	<b>CHANGE ORDER B</b>
00-10-1500	1	Metalfab Pumper <span style="float: right;">E</span>
00-20-1000	1	Company Profile <span style="float: right;">E</span>
00-20-1500	1	Standard Body Warranty
00-20-1550	1	Metalfab Limited Ten (10) Year Paint and Corrosion Warranty
<b>00-20-1700</b>	<b>1</b>	<b>Hale Pump Warranty - 5 years</b>
00-20-1900	1	UPF Polytank Lifetime Warranty
00-20-2000	1	Plant Visits - unlimited at customer expense
00-20-3000	1	No Bonding Required
00-20-3500	1	Certification for Fusion Welding of Aluminum
00-20-4000	1	Quality System registered to ISO 9001:2008
00-20-4500	1	Fire Apparatus Manufacturers' Association Membership
	<b>1</b>	<b>GENERAL INFORMATION</b>
10-11-0000	1	Intent <span style="float: right;">E</span>
10-11-0110	1	Vehicle data recorder included with chassis
10-11-0500	1	NFPA 1901-2009 Compliance
10-11-2000	1	UL Testing 1901
<b>10-11-2100</b>	<b>1</b>	<b>Maximum length 378"</b> <b>Maximum length is 378" (no maximum height)</b>
10-11-2200	1	Maximum height not specified <span style="float: right;">E</span>
<b>10-11-2400</b>	<b>1</b>	<b>Overall length is 30' or more</b>
10-11-2410	1	Overall height is 119" or more
10-11-2500	1	General Construction
<b>10-11-3000</b>	<b>1</b>	<b>Manuals - two copies</b> <b>***Two copies of manuals are required.</b>
<b>10-11-3600</b>	<b>1</b>	<b>Delivery - FOB Fire Department - By K&amp;T</b>
10-11-4000	1	Payment Terms - Chassis Net 10 days, Balance COD

PART NO	QTY	DESCRIPTION
10-20-1100	1	Hose bed capacity - standard NFPA Pumper
10-20-2100	1	Equipment carrying capacity - standard NFPA Pumper
	1	<b>CHASSIS INFORMATION</b>
<b>20-11-0500</b>	<b>1</b>	<b>Customer Chassis - International 7500 SBA 6x4</b>
		<b>54,000 lb GVW 14,000 lb front axle 40,000 lb rear axle</b>
		<b>217" Wheelbase 149.9" Cab to axle</b>
		<b>Cummins L9 380 HP @ 1900 rpm, 2100 governed rpm, 1250 lb-ft torque @ 1400 rpm</b>
		<b>Allison 3000 EVS automatic transmission, 325 Amp alternator</b>
		<b>50 US gallon fuel tank</b>
		<b>Cab and wheels painted 2303 red</b>
20-11-1500	1	2013 Emission chassis modifications
20-21-0500	1	Fluid capacity plate
20-21-0600	1	Pumping test plate
20-21-1000	1	Maximum riders sign - 2 persons
20-21-1500	1	Seat belt warning labels - 2 door chassis
20-21-1520	1	Helmet warning label - do not wear helmet
<b>20-21-1540</b>	<b>1</b>	<b>Tire Pressure Indicators - Tandem Axle</b>
20-21-1600	1	Apparatus Information Label
		An information label is provided in the chassis cab, visible to the driver, stating:
		"When manufactured, this vehicle was:
		** m high
		** m long
		** kg GVW
		Changes in height since the apparatus was manufactured shall be noted on this plate by the Fire Department"
20-21-2000	1	Non removable key
20-21-2500	1	Shifter lock not required E
20-21-3500	1	Rear step warning label
20-21-3800	1	Front mudflaps
20-21-4000	1	Rear mudflaps - Metalfab Logo
20-31-0200	1	Fuel fill label -Ultra Low Sulfur Diesel only
<b>20-31-0500</b>	<b>1</b>	<b>Alum tread fuel tank trim, Conv - 2 door</b>
		Vertical trim only, OEM cab steps remain
<b>20-31-1900</b>	<b>1</b>	<b>Chassis cab painted by Navistar - single color red</b>
<b>20-31-7010</b>	<b>1</b>	<b>SS nut covers, hub caps and high hats - tandem axle</b>
<b>20-31-7500</b>	<b>1</b>	<b>Console in cab</b>
		<b>Install switch panel, siren, door ajar light, and pump shift in console.</b>
		<b>Storage area with hinged cover and lift and turn latch provided at rear of console.</b>
		<b>Gray Zolatone finish</b>
20-41-0600	1	Intake air shutoff for engine not required
20-41-1100	1	Transmission programming - Allison WT
		***Includes "Pump Engaged" light next to pump shift on chassis instrument panel.
20-41-1500	1	Extend exhaust pipe - RS front of rear wheels E
		Engineering to specify exhaust pipe material as required by the chassis manufacturer.
		Engineering to sign off on the exhaust configuration to make sure it meets the chassis manufacturer's emission specifications.
<b>20-41-1801</b>	<b>1</b>	<b>Battery boost terminals not required - batteries accessible</b>
20-41-2000	1	Chassis batteries remain in OEM location
20-41-2510	1	Fuel fill at step fuel tank under cab
20-41-2600	1	Chassis fuel tank remains in OEM location
<b>20-41-5010</b>	<b>1</b>	<b>Rear Tow Hooks - through rear of body E</b>
		<b>Flat bar tow hooks through rear of body under dump (2)</b>
		<b>***Spartan style***</b>

<b>PART NO</b>	<b>QTY</b>	<b>DESCRIPTION</b>
20-51-0700	1	<b>Master Battery Disconnect included with chassis</b>
20-51-2500	1	<b>Back up alarm included with chassis</b>
20-51-3400	1	Protection valve installed for air operated accessories
20-51-4000	1	<b>Auto eject for air inlet - LS</b> Located on left side pump panel
20-51-5600	1	<b>Flashing headlights w/ chassis</b>
20-51-6200	1	<b>120 volt 20 A shore line connection in chassis cab</b> Standard 5-20R duplex receptacle in chassis cab, not fused For battery conditioner to plug into - mount on back of console minimum 12" from floor
20-51-6510	1	<b>Kussmaul Autocharge 35/10 battery conditioner w/battery saver</b> Located on back side of console
20-51-7100	1	Electric System Manager
20-51-7500	1	<b>Super Auto eject for 120 v - 20 A with sealed enclosure</b> Located on left side pump panel
20-51-8500	1	Engine compartment lights (pair) One required each side to light up complete engine compartment Switched with pump panel lights
20-51-9001	1	<b>Air horns and control supplied with International chassis</b> Air horns on cab hood controlled with a center lanyard
20-52-3000	1	Chassis steering wheel lined up by others
20-52-4000	1	<b>Rear View Camera system</b> Rearview Systems STM5600 with 5.6" colour monitor in cab mounted center of dash within easy view of driver
20-60-0400	1	Chassis wheelbase does not change
	1	<b>PUMP AND PLUMBING</b>
30-11-8200	1	<b>Hale QMAX 1500 USGPM single stage pump</b>
30-12-3400	1	<b>Packing for Hale QMID/QMAX/QTWO pumps</b>
30-15-0104	1	<b>Plumbing - Hale manifold pump SM SS</b> E
30-20-0500	1	Valves and controls - side mount panel
30-20-1002	1	<b>Akron valves specified</b>
30-20-1600	1	<b>Piping stainless steel - general</b>
30-20-1700	1	<b>1-1/2" thread specifications - NPSH</b>
30-20-1800	1	<b>2-1/2" thread specifications - NST</b>
30-20-2000	1	Piping hydrostatic test
30-20-2500	1	<b>Anodes in suction and discharge piping</b> Install one anode on discharge side of pump, one anode on suction side of pump - do not use teflon tape or thread sealant. Paint flange silver and mask brass anode before painting for visibility.
30-21-5560	1	<b>Tank to Pump SS 3" w/ check valve manifold pump</b>
30-22-0520	1	<b>Tank Fill valve 2" SS</b>
30-31-4010	1	<b>Suction - 6" not gated each side manifold pump</b>
30-32-7530	1	<b>Suction - 2-1/2" left side SS, bleeder, Hale manifold pump</b>
30-32-8030	1	<b>Suction - 2-1/2" right side SS, bleeder, Hale manifold pump</b>
30-41-2020	1	<b>2-1/2" RS discharge SS, bleeder, Hale manifold pump</b>
30-41-2520	2	<b>2-1/2" LS discharge SS, bleeder, Hale manifold pump</b>
30-43-1520	2	<b>2-1/2" rear discharge SS, plumbed 2-1/2", bleeder</b> One each side as shown on the proposal drawing
30-44-0520	2	<b>1-1/2" crosslay (each) SS, 2" valve, bleeder</b> Front most and center crosslay above pump house. Each to have capacity for minimum 200 ft of 1-3/4" hose and nozzle. Stainless steel rollers on each end

PART NO	QTY	DESCRIPTION
30-44-3520	1	<b>2-1/2" crosslay SS, plumbed 2-1/2", bleeder</b> Rear most crosslay above pump house. To have capacity for minimum 200 ft of 2-1/2" hose and nozzle. Stainless steel rollers on each end
30-44-6520	1	<b>Piping for monitor SS, plumbed 3", bleeder</b> Behind Crosslays for an Akron 3423 Monitor, offset to right as shown on the proposal drawing.
30-51-0500	1	<b>Pump shift-Midship air</b> ***Includes "Pump Engaged" and "OK to Pump" indicator lights on chassis instrument panel ***Includes "Throttle Ready" indicator light on Pump operating panel
30-51-0700	1	Pump Gearbox mounted manual over ride for pump shift
30-51-6800	1	<b>FRC InControl Governor/Throttle engine display with throttle knob</b>
30-51-7000	1	Suction side relief V/V, manifold pump
30-51-7711	1	<b>Trident Air Primer 3 barrel single location</b>
30-51-8100	1	<b>Heat exchanger included with chassis</b>
30-52-1000	1	Master drain V/V, 12 port
30-52-2000	1	<b>Drain valve for foam system header</b>
30-52-4010	1	<b>Foam System - Hypro FoamPro 1600</b> All Mattydale preconnects (2 x 1-3/4", 1 x 2-1/2") are foam capable
30-52-9100	1	<b>Foam concentrate label at foam tank fill</b>
30-52-9200	1	<b>Foam System Instruction Plates</b>
30-52-9400	1	<b>NFPA Foam System certification test</b>
30-99-2000	1	<b>5" right discharge SS, plumbed 3", Hale manifold pump</b>
	1	<b>WATER AND FOAM TANKS</b>
40-11-2000	1	Polytank IIE water tank (US gallons)
40-11-2200	1	Water tank capacity certification (tank manufacturer)
40-11-7100	1	<b>Tank capacity 2500 US Gallons</b>
40-12-4600	1	<b>Foam cell - 20 US gallon</b>
40-21-0500	1	<b>3" tank to pump connection</b>
40-22-0500	1	<b>2" tank fill connection</b>
40-23-0500	1	<b>1" water level gauge connection</b>
40-23-1040	1	<b>4" direct fill connection</b>
40-23-1060	1	<b>10" Newton dump connection</b>
40-30-0400	1	3" plug in sump box
40-30-1100	1	<b>Water Fill Box middle left side</b>
40-31-4500	1	<b>10" rear Newton dump, painted steel</b>
40-31-4700	1	<b>Newton dump, top mount manual operation</b> Lock open device is required
40-31-5000	1	<b>Newton dump - 36" telechute painted steel</b>
40-31-5600	1	<b>Rotating dump chute for Newton dump painted steel</b>
40-31-5800	1	<b>Support for rotating dump chute if necessary</b> Engineering to determine if this support is required
40-99-8000	1	<b>5" Storz rear gated fill (3" valve)</b> Install 5" rear fill with 3" ball valve as low as possible in the rear lower right side of the newton dump valve
	1	<b>ELECTRICAL</b>
50-11-0450	1	<b>Base electrical system - International Diamond Logic multiplex</b>
50-11-0600	1	Warning Light Certification
50-11-0700	1	Low Voltage Electrical system test
50-11-0800	1	Low Voltage Electrical System Documents As required by ULC and NFPA standards
50-11-0900	1	<b>Rocker switch panel with master warning switch</b> ***Rocker switch assignments:

PART NO	QTY	DESCRIPTION
		<b>MASTER</b>
		-LIGHT BAR RED
		-LIGHT BAR CLEAR
		-FLASHING HEADLIGHTS
		-REAR BEACONS
		-FLASHING WARNING
		-LEFT SCENE
		-RIGHT SCENE
		-REAR SCENE
		-REAR FLOODS
		-GROUND LIGHTS
50-11-1400	1	Federal PA300 100 watt siren
50-11-1625	1	<b>Siren speaker, 100 watt, behind chassis grille</b>
50-11-2600	1	<b>Siren to be accessible to driver and officer</b>
50-11-5809	1	<b>Federal LPX53DS - NFPA LED light bar red/white</b>
50-11-6501	1	Rear Directional Light not required E
50-11-9015	1	<b>Federal Navigator NVG10 Mini Lightbars/beacons (Pair)</b> Mounted on rear as shown on the proposal drawing. Both red in color. SOPT 1063
50-12-5040	1	<b>Front LED flashers (pr) - red Federal IMPAXX</b>
50-12-5150	1	<b>Rear LED flashers (pr) - red Federal IMPAXX</b>
50-12-5230	1	<b>Front side intersection lights (pr) - red Federal IMPAXX</b> Mounted on side of hood to meet NFPA
50-12-5340	2	<b>Body side intersection lights (pr) - red Federal IMPAXX</b>
50-21-1500	1	Rear floods (pr)-Unity Note that these lights are also used as rear step lights and cannot be managed
50-21-2525	2	<b>FRC telescoping SPECTRA LED 12V flood (ea)</b> <b>SPA530-Q15-ON-SR</b> Mounted on front of pump house, one each side Light is switched on light head Wired to the electric system manager to shed
50-21-5100	1	Compartment lighting - LED tube lights in each compartment (rollup doors)
50-21-5500	1	Door Ajar warning light Warning label in cab to read: "Do Not Move Apparatus when Light is on"
50-21-5550	1	<b>Equipment rack not stowed warning light</b> Warning label in cab to read: "Do Not Move Apparatus when Light is on"
50-21-8001	1	<b>Step lights for body steps - 4" LED</b>
50-21-8200	1	<b>Step lights for chassis steps - LED</b>
50-21-8600	1	LED clearance lts and reflectors
50-21-8800	1	<b>LED intermediate turn signal/clearance/reflector length &gt;30'</b>
50-22-0800	1	<b>Federal 4 QuadraFlare LED tail/brake-turn-backup-warning module (pr)</b>
50-31-6007	6	<b>Akron Revel scene lites</b> One at each upper corner of body left side, switched in cab One at each upper corner of body right side, switched in cab One at each upper corner back of body switched in cab and also wire to activate when in reverse. Akron Revel ELRE-SLDC - 14K lumens (9.1 Amp)
50-31-6010	2	<b>Scene light boxes (pr) - tread plate</b> E Note any special requirements

PART NO	QTY	DESCRIPTION
50-31-6550	1	<b>Ground lighting (LED Lumabar) - 2 door chassis</b>
50-31-6570	1	<b>Ground lighting (LED Lumabar) - side mount body</b>
50-35-0560	1	<b>VHF antenna with base - commercial chassis</b> Cable run to the console area and clearly labeled For Kenwood tk716oh
50-35-0570	1	<b>UHF antenna with base - commercial chassis</b> Cable run to the console area and clearly labeled For Kenwood tk8160h
	1	<b>BODY</b>
60-10-1600	1	<b>Tandem axle extruded aluminum body</b> Right side of hose bed notched for PTS as shown on the proposal drawing.
60-10-4100	1	No "beavertail" rear step supports
60-10-4600	1	Painted fender surround E
60-10-4700	1	Integral aluminum fender trim
60-10-5400	1	Diamondback pumphouse steps
60-10-5430	1	Diamondback 19" rear step
60-10-6000	1	Extruded rub rail
60-11-0300	1	<b>Front left side compartments full height</b> E
60-11-0700	1	<b>Front right side compartments full height</b> E
60-11-1000	1	<b>Rear left side compartments full height</b> E
60-11-1400	1	<b>Rear right side compartments full height</b> E
60-11-2000	4	<b>High side compartment (over 18") each</b> Two right side and two left side
60-11-3100	1	<b>No rear compartment</b> E
60-11-5500	4	<b>Rollup door - standard height</b> Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5520	4	<b>Rollup door - full height</b> Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5650	8	<b>Roll up door pull down strap (ea)</b> SOPT 694
60-31-4100	1	Extruded aluminum handrails Minimum 2" clearance from handrail to any surface
60-31-5500	1	<b>Steps at rear of body (folding)</b> Maximum height between steps is 18" LS rear only to intermediate full width step- RS steps are deleted
60-31-5600	1	Steps and grab handles at front of body next to pump panel Maximum height between steps is 18"
60-31-5800	1	<b>Special step over rear dump</b> Full width step above rear suction hose and ladder tube storage
60-31-6500	1	Compartment matting-Turtle tile
60-31-8000	4	<b>BA bottle compt (ea)-fender well</b>
60-31-8700	4	<b>Sliding tray (ea) - 400 pound capacity with gas strut</b> All mounted at floor level in the following compartments; Tray #1 - Left side front compartment Tray #2 - Left side rear compartment Tray #3 - Right side front compartment Tray #4 - Right side rear compartment Reflective stripe is applied on the exposed edge for visibility when the compartment door is

PART NO	QTY	DESCRIPTION
		open
60-31-9600	5	<b>Adjustable shelf (ea)</b> All shelves are shallow depth mounted in the following compartments; Shelf #1 - Left side front compartment Shelf #2 - Left side rear compartment Shelf #3 - Right side front compartment Shelf #4 - Right side front compartment Shelf #5 - Right side rear compartment Reflective stripe is applied on the exposed edge for visibility when the compartment door is open
60-32-3550	1	<b>Two adjustable hose divider (each)</b> Hand hold required in end
60-32-7500	1	Hose bed - aluminum
60-33-0000	1	<b>Paint exterior - Imron Elite</b> *** Paint code and color red to match cab
60-33-0200	1	Undercoat vehicle with KROWN rust protection
60-33-0500	1	Paint chassis wheels job colour with silver trim E
60-33-1000	1	Paint pump and plumbing job colour
60-33-1500	1	Buffed finish compartment interior
60-33-2200	1	<b>Lettering - 80 letters up to 3" tall - 3 colour</b> *** Vinyl letters, Fire Department to provide details on location and text.
60-33-3100	1	<b>Reflective stripe - 6" white</b> 50% of perimeter each side and 25% of perimeter front
60-33-3310	1	<b>Reflective stripe - red and yellow chevron at rear</b> Minimum 50% of rear vertical surface
60-33-3500	1	<b>Tarp over hose bed - black</b> A hosebed cover will be provided and secured to top body flanges by quarter turn snaps at front of hosebed and Velcro on each side edge of the cover. A weighted flap will be furnished at the front of the cover, and Velcro straps will be provided on the rear of the cover to tie around the rear handrail. Color to be black.
60-33-3600	1	<b>Reflective stripe - inside entry doors</b> 96 square inches minimum inside each cab entry door
60-33-4600	1	<b>Aluminum cover over crosslays - with end tarps (black)</b> Small tarps with 1/4 turn fasteners and Velcro straps to enclose each end are provided.
60-40-5500	2	<b>Suction hose tube for two 6" x 14' long hoses with door</b> For the 6" x 14' suction hoses 80-11-5001. Rear Access, left side, smooth painted door with "D" handle. Switch required for door ajar.
60-40-9000	1	<b>Tube mount for ladders, with rear door</b> For 24' two section (80-14-0500) and 14' roof (80-14-5500) ladders Rear Access, right side, smooth painted door with "D" handle. Switch required for door ajar.
60-41-1015	2	<b>Pike Pole tube in suction hose tube 60-40-5500</b> Tubes are 2" inside diameter x 12' long - for Customers pike poles.
60-41-1500	1	<b>Attic ladder tube integrated to 60-40-5500</b> For 10' attic ladder 80-14-8500

PART NO	QTY	DESCRIPTION
60-41-6005	1	<b>Zico horizontal electric portable tank rack</b> Right side as shown on the proposal drawing for Customers portable tank. To be wired so only operable when park brake is engaged. Flashing lights and reflective tape required at front and rear to indicate any areas that protrude beyond the body. Customer portable tank frame dimensions: Folded Length - 142" Folded height - 30" Folded depth - 7" 2500 gallon Water King Industries Inc 515 332 3265
60-41-6010	1	<b>ZICO PTS switched at rear above tail light</b> Switch is located on same side as electric rack - right side
	1	<b>INSTRUMENTATION</b>
70-11-0000	1	Warning Label on Pump Operator's Panel
70-11-0500	1	Side mount instrument panel No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position
70-11-1500	1	Stainless steel instrument panels
70-11-3200	1	<b>Colour coded tags</b> Mattydale preconnects to be color coded as below: #1 - 1-3/4" ORANGE #2 - 1-3/4" RED #3 - 2-1/2" YELLOW
70-11-4000	1	Stainless steel side panel hood right side
70-11-4100	1	Stainless steel side panel hood left side
70-11-5000	1	Standard cover over rear top of pump house - no storage
70-11-5500	1	Right side tread plate pump access door <b>No opening dimension less than 18"</b>
70-11-7500	1	Heat pan-aluminum
70-11-8100	1	Heater in pump compartment not requested
70-20-1000	2	4-1/2" compound gauge - PSI only 0-600 To be within 8" of each other - edge to edge
70-20-2000	10	<b>2-1/2" pressure gauge - PSI only 0-600</b> Gauge to be no more than 6" from edge of the gauge to the center of the control.
70-20-2500	1	<b>Primer control</b>
70-20-3300	1	<b>FRC InControl Governor Control</b> Throttle can be no lower than 42" and no higher than 72" from operator's standing position.
70-20-3510	1	<b>Electric water level gauge on pump panel and at rear, Class One</b>
70-20-6500	1	Test gauge panel Mount below the compound gauges for proper draining
70-20-7500	1	<b>Heat exchanger control valve</b>
70-21-1600	1	<b>Electric Foam Level gauge not required</b>
70-21-5500	1	<b>Panel readout for Battery Conditioner</b> Located on left side pump panel
	1	<b>ACCESSORIES</b>
80-11-0999	1	<b>K &amp; T Supplied Accessories</b>
80-11-5001	2	<b>6" X 14 ' HARRINGTON SUCTION HOSE</b> Supplied and installed/mounted by K&T
80-12-2600	1	<b>6" box strainer</b> Supplied and installed/mounted by K&T



