

January 5, 2018

Fall Creek Fire Department

2018 Dodge 5500 Regular Cab - **DIESEL**
Flatbed w/ Trans.
Rollup Doors
24.8 HP Kubota **Diesel** Powered Hale Pump

(1) Supply a 2018 Dodge 5500 4x4 Regular Cab chassis (144.5" wb) 60" CA with the following:

6.7L I6 CUMMINS TURBO DIESEL	6-SPD AUTO AISIN HD TRANS
FLAME RED CLEAR COAT	SIRIUSXM SATELLITE RADIO
HD VINYL 40/20/40 SPLIT BENCH	BLACK/DIESEL GRAY
CHROME APPEARANCE GROUP	AMBULANCE PREP GROUP
DUAL ALTERNATORS	POWER & REMOTE ENTRY GROUP
HEAVY DUTY FRONT SUSPENSION GROUP	COLD WEATHER GROUP
TRANSFER CASE SKID PLATE SHIELD	TRAILER BRAKE CONTROL
UPFITTER ELECTRONIC MODULE	EXTERIOR BACKUP ALARM
BACKUP CAMERA IN RADIO SCREEN	5.0 SCREEN W/ BLUETOOTH
4.44 AXLE RATIO	19,000 GVW
ENGINE BLOCK HEATER	225/70R19.5G ALL POSITION FT,RR
WHEELS 19.5" X 6.0" STEEL	

(2) Supply and install a set of Polished Stainless Steel wheel covers.

(3) Supply and install a set of Polished Stainless Steel Nerf Bars under the cab doors.

Rearview Camera

(4) Mount the Backup camera prep kit on the rear of the body in the best location as time of installation. The backup camera will display in the rearview mirror in the cab.

Winch

(5) Supply and install a Warn 12,000 lb. winch with a Black Powder Coated Steel Warn winch carrier, headlamp guard and grille guard mounted to the front bumper of chassis using the Warn specification. This will have a 12 ft. remote control cable and 125 ft. of 3/8" diameter wire cable.

Flatbed

(6) Supply and install a totally aluminum flatbed mounted on chassis of the following design, 83" long x 96" wide:

- A) Two 4" 6061 aluminum channel main rails 110" long
- B) Five 3" 6061 aluminum channel cross member 96" long
- C) Two sheets of 3003 .125 thick diamond aluminum formed to make floor and side rail of bed.
- D) Supply and install two brake, turn and tail red LED rear DOT lights. Also supply and install a tag light and seven LED marker lights, and necessary reflectors.
- E) Supply and install two clear sealed beam backup lights.
- F) Supply and install a .125 smooth aluminum cover or skirt to cover the rear frame work at the rear of bed and chassis. This panel will be the area for the rear tail lights to mount. There will also be 6" wide chevron red/yellow stripes on this panel.
- G) Supply and install a rear ICC bumper that will be constructed of 3" steel channel and connected to the chassis frame and bed frame, painted black
- H) Supply and install a 2 1/2" square tube receiver for a trailer hitch along with a female trailer plug receiver.
- I) Supply and install two Cast Product lighted fold down steps above the ICC bumper to allow easy access to the Skid Unit.
- J) Supply and install one lighted Hansen lighted grab bar (red on the front side and clear on the back side) mounted on the end wall of the driver's side compartment just above the preconnect flip up lid. The white light will be wired to the pump panel light toggle switch. The red light will be controlled by the marker lights.

(7) Supply and install two black mud flaps with ATP anti-sail bars behind rear chassis wheels.

Warning Lights

- (8) Emergency Warning Equipment includes the following:
- A) There are two Whelen ION Series (#WIONSMCR) Red Super LED lights mounted in grille of chassis with chrome housing.
 - B) Two Whelen ION series (#WIONSMCR) Red Super LED lights with chrome trim mounted in front fenders of chassis
 - C) Two Whelen 500 TIR6 Red LED lights (#50R03ZRR) mounted with rubber grommets (#5GROMMET) in the side rail of the flat bed towards the rear.
 - D) Two Whelen 600 Series Red Super LED lights, one amber (#60A02FAR) and one red (#60R02FRR) w/chrome trim (#6EFLANGE) mounted on the rear tail skirt.
 - E) One Whelen JUSTICE LED bar light with four corner red Linear LED's, six front facing (four red, two white) and four rear facing (two red, two amber) mounted on the top of the chassis cab.
 - F) One Able 2 8-way switch box (#05.8040.X00) with the first switch as master switch for the remaining 7 switches.
 - G) One Able 2 Siren control (#ABL31.2515.000) mounted on dash of chassis. The amplifier to be mounted behind the driver's seat.
 - H) One 100 watt Cast Products Speaker mounted through the front bumper D/S.

- I) Master Switch
 - a. Supply and install a heavy continuous duty solenoid switch that will be activated when the ignition switch is in the ON position. This will be the master switch for all of the emergency lights and sirens.
 - b. This will be wired to the chassis 12 volt system through the necessary sized wiring cables and breakers and/or relays.
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Scene Lighting

(9) Supply and install two (2) 12 volt Fire Research LED telescopic scene lights with aluminum tread plate protective covers, one on the driver's side front corner of the transverse compartment and one on the curb side front corner of the transverse compartment. The lights shall be controlled by a Ford Upfitter switch and a switch on each light head.

Console

(10) There will be a full console between driver and passenger seat for all emergency light switch boxes, siren control head, radios, relays, breakers, master switch, gauges, etc. There will also be a function ID sheet mounted to the inside of the console. The console will have a lift-up lid in order to gain access to breakers, control head, relays, wiring, etc. There will also be a one section open top container for clip boards, maps, etc. This console will be constructed of 1/8" thick smooth aluminum and will be painted.

Battery Charging System

(11) Supply and install a Super Kussmaul 12H0 charging system complete with an auto eject on the driver's side. The charger will be mounted in the best location for ventilation and weather protection. The shore line will eject when the chassis engine is in the start mode.

Wiring

(12) All wiring will be function or color coded and will be protected by wire loom with a temperature rating of 345 degrees Fahrenheit. Rubber grommets are inserted in all areas where wires pass through walls or panels. The complete electrical system is separated from the chassis wiring system except for a power supply connection at chassis battery. It is also protected by bolt-on type automatic circuit breakers.

Tank and Pump

(13) The 300 gallon skid unit that is a part of this unit includes:

- A) 300 gallon poly tank with an integrated 5 gallon foam tank. This tank has a lifetime warranty.
- B) Supply and install a Hale Pump series **HPX200-KBD24** Diesel motor pump with the following:
- a) **Kubota**, 24.8 HP, Model HPX200-KBD24, Super Mini Series D902-E3B
 - b) Emission Regulation: Tier 4
 - c) Vertical, 4-cycle liquid cooled diesel
 - d) Horsepower: 24.8 hp @ 3600rpm
 - e) Combustion System: IDI
 - f) Intake System: Naturally Aspirated
 - g) Starting: Electric
 - h) Control: Manual with electric shut-off
 - i) Air Filter: Dry type with cyclone pre-cleaner
 - j) Priming: Complete with 12-volt DC ESP primer, shipped loose
 - k) Shaft seal: Self-lubrication, self-adjusting mechanical seal for low maintenance and dependability. Easy and economical to maintain.
 - l) Impeller: Bronze enclosed type, fully machined and balanced, Bronze impeller has high strength and will not rust or corrode. Smooth waterways increase efficiency.
 - m) Body and Head: black hard coat anodized aluminum with gloss black paint, corrosion resistant with smooth waterways for maximum performance.
 - n) Electric Start
 - o) Mounting feet
 - p) Single gauge instrument panel
 - q) 12 volt 40 amp alternator
 - r) Weight: 355 lbs.
 - s) Performance:

280 GPM @	50 PSI
205 GPM @	100 PSI
175 GPM @	120 PSI
130 GPM @	150 PSI
 - t) Features & Benefits:
 - Diesel Compatibility – Refueling convenience with today’s apparatus
 - High Capacity Model – Flows to 290 GPM
 - Exclusive Band Clamp Design – Quick and easy access for maintenance and repairs
 - Configured for easy installation by truck builders
 - Ideal for pump and roll applications
 - Tier 4 compliant engine
 - u) Pump fuel supply will be from the chassis fuel tank and the 12 volt power is from the chassis batteries.
- C) Full instrumentation
- D) Lighted pump panel with ATP cover
- E) Exhaust tail pipe with ATP exhaust shield

- F) Fuel supplied from the trucks fuel tank
- G) Tank sight gauge
- H) Custom built 4" x 4" x 1/4" steel manifold painted Black
- I) Supply and install a Hale 501-3090-01-0 ESP with PVG oil less 12 volt electric priming pump with control at the pump panel
- J) Supply and install a MC Products four light Tank Level Gauge on pump panel.
- K) Supply and install an aluminum Hannay Power Fire reel SBEF 20-30-31-10.5 LT mounted on right rear corner of flat bed. This reel will have an electric rewind button mounted on the reel and will have a stainless steel roller mounted on the rear. This reel will carry 200 ft. of 1" hose and will have high pressure hose crimped on the ends from the valve to the reel.
- L) 200 ft. of lightweight 1" booster hose.
- M) Akron valves included:
 - a) One 2½" tank to pump w/ remote.
 - b) One 2½" discharge with 2½" to 1½" chrome reducer, 30 degree chrome turn down along with chrome 1½" cap and chain.
 - c) One 1" hose reel valve.
 - d) One 1 ½" tank fill or bypass valve.
 - e) One 1 ½" discharge valve
 - f) One 2 ½" suction, 30 degree turn down with chrome NSTF swivel along with the chrome plug and chain.
 - g) All valves are Akron and within easy reach.
 - h) Color coded labels.
 - i) Schedule 40 galvanized piping painted black.
 - j) All flex hose used is high pressure hose with crimped hose end fittings.

Foam System

(14) Supply and install a Blizzard Wizard Foam system. There will be a 5 gallon foam tank integrated into the water tank with sight gauge.

Compartments

(15) Supply and install a 1/8" thick diamond aluminum transverse compartment mounted directly behind the cab. This compartment will be 30" wide X 60" high X 23" deep on each side with a 16" step-up to clear the chassis frame and is 50" wide across the frame. The compartment has a total side to side width of approximately 96". This compartment will have one adjustable tray that is 89" long X 27 ½" wide X 2" deep. This compartment will have a HANSEN INTERNATIONAL rollup door, one on each side with a brushed aluminum finish. There will be an LED strip light on one HANSEN door track that will be activated when the HANSEN doors are open. This compartment will have the necessary vents.

(16)

- A. On the curb side compartment fabricate and install a 1/8" thick diamond aluminum compartment mounted on the flat bed curb side of the skid tank. This compartment will be 48" long X 40" high X 21 1/2" deep. There will be a HANSEN INTERNATIONAL rollup door with an LED strip light on one HANSEN door track that will be activated when the HANSEN door is open.
- B. Supply and install one adjustable tray in this compartment complete with adjustable tracks. This tray will be approximately 20" wide x 45" long x 2" deep and will be fabricated from 3/16" thick smooth aluminum.
- C. There will be two vents in the rear wall of this compartment, one in the upper section and one in the rear section.

(17)

- A. The driver's side compartment will be a 1/8" thick diamond aluminum compartment mounted on the driver's side of the skid tank. This compartment will be 78" long X 40" high X 21 1/2" deep. There will be a HANSEN INTERNATIONAL rollup door with an LED strip light on one HANSEN door track that will be activated when the HANSEN door is open.
- B. Supply and install one adjustable tray in this compartment complete with adjustable tracks. This tray will be approximately 20" wide x 75" long x 2" deep and will be fabricated from 3/16" thick smooth aluminum.
- C. Note: This tray will be used as a divider floor between the bottom hose lay and the storage area on top of the tray.
- D. There will be two vents in the rear wall of this compartment, one in the upper section and one in the rear section.
- E. Cut an opening in the rear wall of this compartment in the hose storage area of approximately 19 1/2" wide x 8" high in order to deploy the preconnect hose at the rear of this compartment without raising the compartment side door.
Fabricate and install a 3/16" thick diamond aluminum raise up door complete with stainless steel hinge, paddle latch and rubber door seal. The door will have a notch on the right lower corner in order for the 1 3/4" hose to extend through and be connected to the 1 1/2" valve on the manifold. There will be a rubber seal added at the notch in order to help prevent moisture from the entering the compartment.

Hard Suction Hose Storage and Hose

(18) Supply and install a three section hard hose storage area fabricated from 1/8" smooth aluminum material approximately 89" long x 4" high x 12" wide complete with two divider walls to create the three sections. This hard suction hose storage will be mounted under the adjustable tray on the back wall of the transverse compartment, vertically.

(19) Supply and install three sections of custom length hard suction hose that fit in the hard suction hose storage compartment.

Open Door Alarm

(20) Supply and install a door open alarm system for both the side compartment doors and both transverse compartment doors that will be activated when the park brake of the chassis is in the released position and there is a compartment door open.

This alarm system will be both visible and audible at the center console along with the necessary ID tags.

Striping

(21) This unit has 4" white reflective stripe with ¼" black pin stripe above and below on cab and on the rollup doors with a stripe transition on the transverse rollup door compartments. There will also be a 4" white reflective on the flatbed frame rails.

Lettering

(22) Supply and install up to forty-six 3" letters / number with black outline and heavy drop shadow and eighteen 1" letters with black outline in simulated engine turn fill printed on reflective material on the cab doors and fenders.

FALL CREEK (semi arch)

--- **Volunteer** --- (straight line)

FIRE DEPT. (straight line)

4401 (on fenders)

(23) Supply and install one **4401** on a mirrored stainless tag mounted on the end of the compartment at the rear of the truck, driver's side.

NFPA Reflective

(24) Supply and install 3M red/white conspicuity DOT tape on the front of all the trays.

(25) Supply and install at least 96 square inches of reflective material on each cab door interior door card. This allows visibility of the unit when the door are in the open position and the reflective stripe on the outside of the door can't be seen.