



# Smeal Fire Equipment Co., Inc.

Box 248 • Snyder, Nebraska 68664  
Toll Free (800) 228-9014 / Fax (402) 568-2278

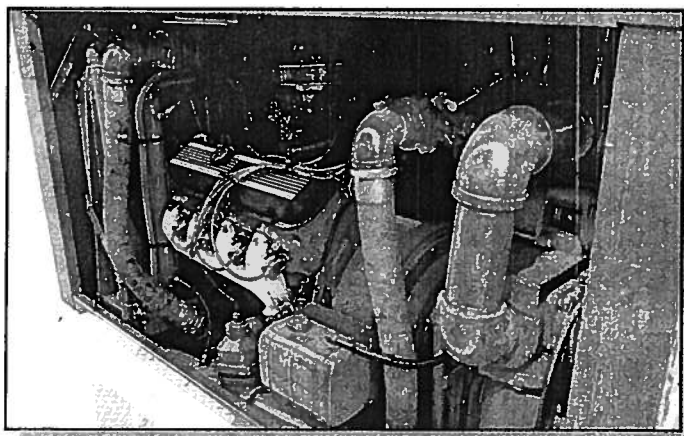
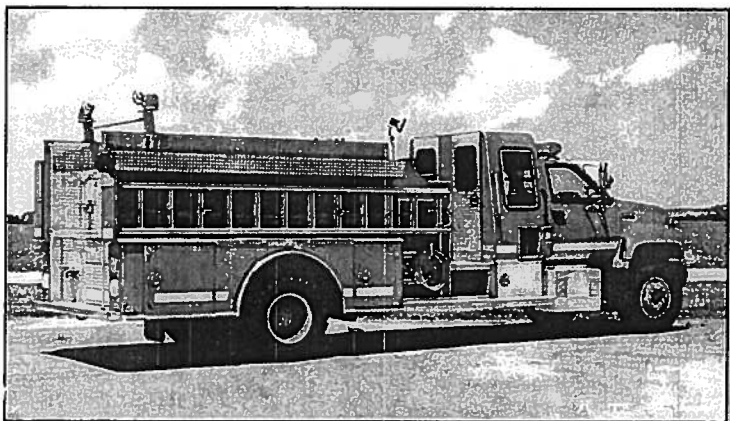


S.O. #1243

## Smeal "Vanguard Series" Crossmount Pumper

GMC TopKick C7H042 Chassis - 427 Cu. In. Engine - Waterous 1,000 GPM Pump - 900 Gallon Tank

- Meets all NFPA Pamphlet 1901 (Latest Edition)
- Body Design Provides Extra Cubic Feet of Storage
- Designed for Rural America Fire Fighting
- Body Constructed of Galvaneal Steel or Aluminum
- Wide Choice of Compartment Styles
- Durable Polyurethane Enamel Paint



- A Pump Driven by a Separate Industrial Engine Allows Recirculation While in Motion
- Pump and Roll Capability with a Separate Aux. Engine
- Single Stage Class "A" Rated Waterous Pumps
- Available w/750 - 1,000 - 1,250 - 1,500 GPM Rated Pumps
- Available with Gasoline or Diesel Aux. Engine
- Vinyl or Stainless Steel Operators Panel

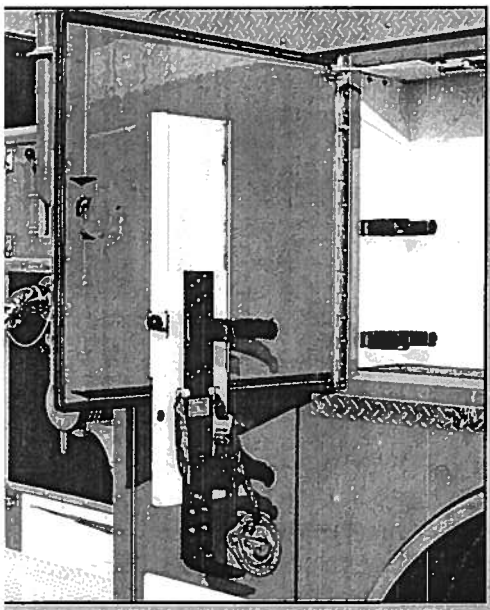
**THE HARDER YOU LOOK - THE BETTER WE LOOK!!**

# SMEAL "VANGUARD" FEATURES

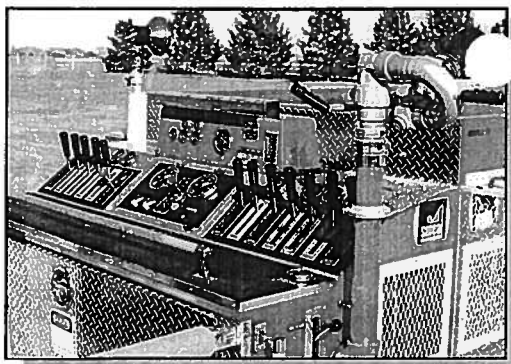
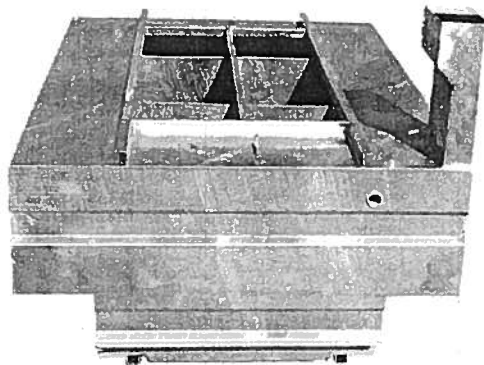


Totally Enclosed 3 Man Crew Compartment  
Easy Loading Crosslay Hosebeds  
Lower Storage Compartments on Each Side  
Sliding Windows on Side and Rear Doors  
Access Grab Rails on Each Side of Cab  
Breathing Apparatus Brackets in Back Rests

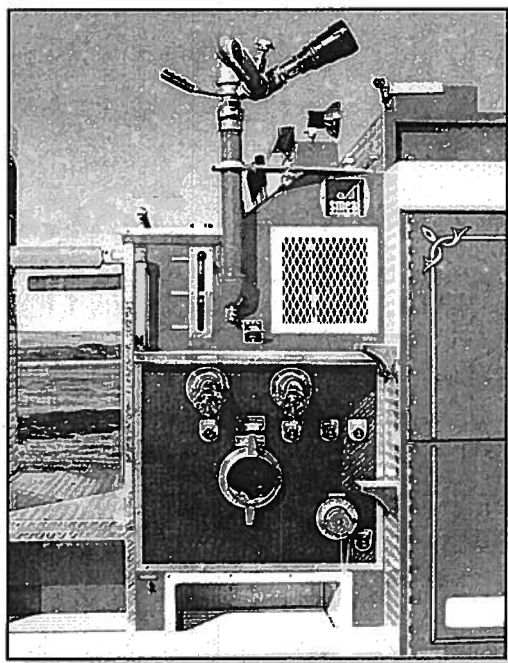
Double Panel Aluminum Doors  
Drop Down SCBA Brackets on Doors  
Sweep-Out Compartments  
Imron Splatter Paint in all Compartments  
Single Point Double Catch Latch on Doors  
Automotive Type Door Seal



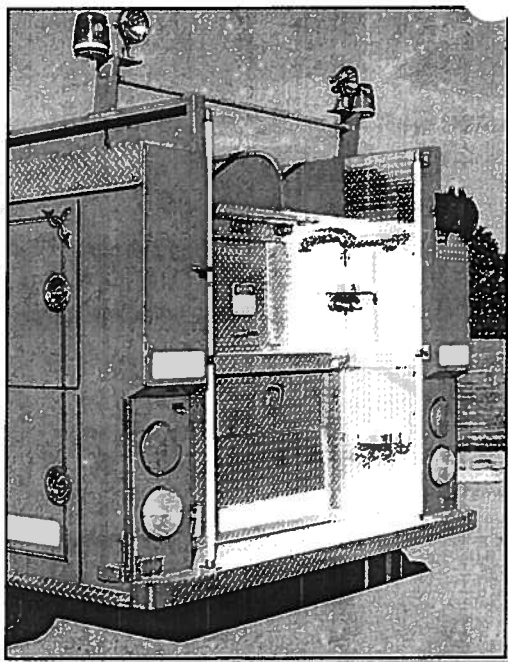
- Standard Hot Dip Galvanized Tank
- Full 20 Year Warranty
- Easily Removable Inspection Cover
- Steel Rails Built Integral with Bottom of Tank
- Fill Riser 8" X 8" with Lid
- 3" x 6" Overflow Behind Rear Wheels
- NFPA 1901 Baffled Tank
- Polypropylene or Fiberglass Tanks Available



- Easy to Operate Topmount Controls
- All Gauges and Controls Color Coded
- All Wiring Function Coded
- Demountable Deck Gun
- Optional 12 Volt Spot / Flood Lights
- Large Access Door to Pump in Walkway



- Overlay Aluminum Diamond Plate
- Rear Extinguisher Compartment
- Access Steps w/Lights on Each Side
- Rub Rails Under all Lower Side Doors
- Rear Hard Suction Hose Compartment
- Tail Light and Backup Lights 8 In.-Dia.



- Easy Access to Deck Monitor
- Permanent or De-Mountable Monitor
- Standard Vinyl Control Panels
- Stainless Steel Control Panel Available
- Heavy Duty Access Steps
- Overlay Aluminum Diamond Plate
- Preconnect Hose Compartment



**smeal**  
THE BEST KEPT SECRET IN THE  
FIRE SERVICE FOR 29 YEARS



**THE HARDER YOU LOOK - THE BETTER WE LOOK!**

AUG 01 '95 02:08PM DANKO EMERGENCY EQ 402 568-2279

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## F O R D T R U C K S

Time: 12:52 PM

Page 1 of 1  
08/01/1995

Sapp Bros Trucks, Inc.  
I-80 and Hwy 50  
Omaha Ne 68138  
402-895-4333 FAX: 402-895-5011

DANKO EMERGENCY EQUIPMENT CO  
DEMO FOR MARK  
115 ASH STREET  
SNYDER, NE 68664  
402-568-2288 FAX: 402-568-2279

PREPARED BY: A. KENT KUHN

PREPARED FOR: MR. MARK KREIKEMEIER

QUOTE ID: DEC9602  
NO. OF UNITS: 1

S U M M A R Y Q U O T A T I O N  
( Price Level = 601 Model Year = 1996 Version = v1.88U.0.0 )

Model ..... F700 Conventional - Gas  
Wheelbase ..... WB=238 CA=168 AF=130 OAL=403  
Engine ..... Ford Gas 7.0L H.O. 236 HP 3600 RPM  
Transmission ..... Allison MT-643 4-Speed Automatic  
Front Axle ..... 12000 lb Front Axle  
Rear Axle ..... 23000 lb Rockwell RS-23-160 Steel 1S  
..... Axle Ratio 6.83  
Paint ..... Candyapple Red  
GAWR: Front: 12000/Rear: 23000 GVWR: Frame: 37600/Total: 35000  
Total Weight ..... Front: 6001/Rear: 4886

Base Price .....  
Option Content .....  
Miscellaneous .....  
Freight .....  
Factory Fuel .....  
Factory Prep & Conditioning .....  
Total Vehicle Price with Freight .....  
Customer Discount .....  
Total Equipment Price (Excluding Taxes and Title) .....  
Net Trade Allowance .....  
Total Price to the Customer .....

Comments:

A. Kent Kuhn 8/01/95  
Dealer Signature Date

\_\_\_\_\_  
Customer Signature Date





# Smeal Fire Equipment Company

P.O. Box 248  
Snyder, Nebraska 68664-0248  
(402) 568-2288

## PROPOSAL FOR FIRE APPARATUS

August 2, 1995

TO: CITY OF SOUTH HUTCHINSON  
South Hutchinson, Kansas

Dear Sirs;

We hereby propose and agree to furnish, after your acceptance of this proposal and the proper execution and approval of the accompanying contract, the following apparatus:

<u>1 - Smeal 1000 GPM Crossmount Pumper with Waterous Pump and</u>	
<u>Accessories mounted on</u>	
<u>1 - Ford 1996 Chassis as specifications</u>	
<u>TOTAL</u>	

<u>Addition: If chassis is not paid for on arrival at Smeal</u>	
<u>Add</u>	

All of which are to be built in accordance with the specifications attached, and which are made a part of this agreement and contract to deliver same in \_\_\_\_\_ working days after receipt of chassis; proposal subject to all causes beyond our control, for the sum of:

\_\_\_\_\_ Dollars  
( \_\_\_\_\_ ) F.O.B. \_\_\_\_\_

TERMS: \_\_\_\_\_

The amount named in this proposal shall remain firm for a period of 30 days from the date of same.

Respectfully Submitted,  
SMEAL FIRE EQUIPMENT COMPANY, INC.

James L. Wilson  
Dan Keenan, Equip  
Snyder, Kansas

We agree to accept the  
above proposal.

Date: \_\_\_\_\_

CITY OF SOUTH HUTCHINSON

08/01/95

CROSSMOUNT ENGINE/FIRE PUMP

The fire pump shall be a Waterous CXRT direct drive pump mounted directly to the auxiliary engine bell housing. The pump shall have a pumping capacity of 1000 GPM (3785 LPM).

The pump shall be a single stage centrifugal class "A" rated fire pump, designed specifically for the fire service.

The fire pump shall be tested and certified by Underwriters Laboratories to perform as listed below:

- 100% of rated capacity at 150 pounds net pressure.
- 70% of rated capacity at 200 pounds net pressure.
- 50% of rated capacity at 250 pounds net pressure.
- 100% of rated capacity at 165 pounds net pressure.

The pump shall comply with the applicable requirements of "Standard for Automotive Fire Apparatus" of the National Fire Protection Association Pamphlet 1901, latest revision.

The pump shall be free from objectionable pulsation under all normal operating conditions.

The pump impellers shall be bronze, specifically designed for the fire service and accurately balanced for vibration free running. The stripping edges shall be located on opposite sides of the impellers to reduce shaft deflection.

The impeller shaft shall be stainless steel, accurately ground to size and supported at each end by oil or grease lubricated anti-friction ball bearings for rigid, precise support. The bearings used on the impeller shaft shall be automotive type bearings, easily cross referenced and readily available at normal parts or bearing stores.

The pump shall be equipped with self-adjusting, maintenance free mechanical shaft seals that shall not require manual adjustment. These seals shall be designed

## CITY OF SOUTH HUTCHINSON

in a manner that they will remain functional enough to permit continued use of the pump in the unlikely event of a seal failure.

The pump shall be equipped with replaceable bronze wear rings for increased pump life and minimum maintenance cost. The wear rings shall be designed to fit into a groove in the face of the impeller hubs forming a labyrinth that, as the clearance increases with age, directs water from the discharge side in several directions eventually exiting outward, away from the eye of the hub.

The fire pump shall be powered by an industrial Chevrolet 454 cu. in. 8 cylinder water cooled gasoline engine.

The auxiliary pump engine shall be mounted directly to the crossmount fire pump.

The auxiliary engine electrical system shall be connected to the batteries from the chassis and shall be capable of starting at any time the battery system is switched on.

Auxiliary engine shall have an alternator with a minimum 50 ampere rating.

There shall be an electric fuel pump assembly attached to the main chassis fuel tank for the auxiliary engine.

The priming pump, priming valve and piping assembly shall be included in the pump assembly. The priming pump shall be an electrically driven rotary vane pump mounted firmly within the pump area. When the priming pump is in use, it shall be automatically lubricated internally from the primer oil tank. The pump shall be controlled by a lever on the pump operator's panel. An indicator light on the pump panel shall show when the primer motor is engaged. The pump shall be capable of creating suction and discharging water from a lift of 10 feet through 20 feet of suction hose of the appropriate size, in not more than 30 seconds starting with the pump dry. It shall be capable of developing a vacuum of 22 inches at an altitude of up to 1000 feet.

The discharge relief valve system shall be positive and quick acting, with have instantaneous hydraulic lock-out that does not require the operator to cancel out or disturb the pressure setting. With the pump operating

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from draft and delivering its rated capacity at 150 psi, if lines are shut down, the increase in discharge pressure shall not exceed 20 psi. The relief valve control (Pilot Valve) shall be protected from malfunction due to sand or other sediment in the water by a strainer which may be removed, cleaned and replaced from the operator's panel while the pump is operating and without shutting down the continuous flow of water.

Relief valve indicator lights shall be mounted on the panel adjacent to the pilot valve assembly. The indicator lights shall be Amber, marked Open to indicate the relief valve is bypassing and Green, marked Closed to indicate the relief valve is fully closed.

The auxiliary engine shall have a supplementary cooling system that uses water from the discharge side of the pump to cool the engine coolant through the use of a closed heat exchanger. The water from the pump and the engine coolant shall not be intermixed. This cooling system shall be controlled by a valve on the pump operator's station.

There shall be one 3/8" pump cooling/recirculating line from the pump directly into the booster tank with a quarter-turn ball valve on operators panel to be labeled "PUMP COOLER ON/OFF".

There shall be an Elkhart 40-41 intake relief valve installed on the suction side of the pump. The valve shall be the preset type, adjustable from 50 to 165 PSI, and shall be designed to prevent vibration from altering the setting. The relief outlet shall be directed below the pump with the discharge terminating in a 2-1/2" male NST connection. The discharge shall be away from the pump operator and labeled "Do Not Cap".

A manifold drain valve assembly shall be supplied. This drain shall provide the capability to drain the entire pump by pulling a single control. The valve assembly shall consist of a stainless steel plunger in a bronze body with multiple ports. The drain valve control shall be mounted on the left side pump panel and identified as "Pump Drain".

Two (2), Pump Operation & Maintenance manuals shall be supplied at the time of delivery.

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### STEAMER SUCTION INLETS

There shall be one (1), 5" male steamer inlet on the left side of the apparatus. The suction fitting shall include a removable die cast zinc screen to provide cathodic protection for the pump thus reducing corrosion.

There shall be one (1), NST chrome plate long handle chrome steamer cap on the left side of the pump.

There shall be one (1), 5" Akron style 7950 butterfly valve. The valve shall be controlled by a gear drive with handwheel and shall be located Left Hand side

### GATED SUCTION INLETS

All suction valves shall be brass, quarter-turn, full flow, swing-out type with positive Tork-Lok trunions.

Each valve shall be individually attached to the manifold of the pump with galvanized pipe. The plumbing to the valve shall contain a minimum of elbows to keep friction loss to a minimum.

The valves located in the pump compartment area shall be partially recessed behind the panel with the portion of the valve that contains water protected from the elements.

Each gated intake shall be equipped with a 3/4" quarter turn bleeder valve. The bleeder valve shall be equipped with a chrome plated bar type handle to provide a positive grip while personnel are wearing gloves.

Gated intakes shall have a polished cast aluminum trimplate around the intake valve and fitting. The trimplate shall be easily removable without the need to disturb the valve.

Gated intakes that are 3" or larger with the exception of the tank to pump inlet shall be equipped with a mechanism to prevent changing the position of the valve from full open to full close, or vice-versa, in less than 3 seconds.

## CITY OF SOUTH HUTCHINSON

Intakes shall have a removable or accessible strainer provided inside each external intake.

At least one auxiliary gated intake shall be provided that is controllable at the pump operator's position. The valve and piping shall be of 2-1/2" minimum size and shall be equipped with a female swivel coupling.

There shall be one (1), 2-1/2" gated intake on the left side of the pump compartment with a 2-1/2" NST female chrome swivel. A 2-1/2" chrome plated plug shall be supplied and attached to the bezel by means of a chain.

There shall be one (1), 2-1/2" gated intake on the right side of the pump compartment with a 2-1/2" NST female chrome swivel. A 2-1/2" chrome plated plug shall be supplied and attached to the bezel by means of a chain.

There shall be one (1), soft suction hose compartment with a capacity for up to 50' of 3" preconnected soft suction hose. The floor of this compartment shall be covered with Dura-Dek fiberglass slatted flooring. The compartment shall be located, recessed into the body beneath the steamer inlet on the Left hand side

### PUMP DISCHARGES

All discharge valves shall be quarter-turn, full flow, swing-out type with positive Tork-Lok trunion.

Each discharge, with the exception of the crosslays and hard to access plumbing, shall be equipped with a 3/4" quarter turn drain between the valve and the discharge. A chrome plated bar type handle shall be provided on each drain valve to facilitate use with a gloved hand.

Drain valves shall be located in a row just above the running board on each side of the apparatus pump compartment to reduce clutter in the main pump panel area. Each drain valve shall be color coded to match the appropriate line it is connected to.

Crosslay and hard to access discharges shall be equipped with automatic drains. These drains shall open whenever the pressure in the discharge line drops below 5 PSI. The automatic drains shall be brass with a stainless steel spring and ball. The drains shall be located in areas

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that will allow the entire line to drain effectively. More than one drain shall be used in lines that are uneven along their length.

The outlets of the drain valves shall be extended with hoses to below the chassis frame rails.

All discharges that are 2" or larger shall be equipped with a 45 degree downward pointing elbow.

All discharges, not designated as a preconnect, shall have a chrome cap and chain attached.

Discharges that are 3" or larger shall be equipped with a valve mechanism to prevent changing the position of the valve from full open to full close, or vice-versa, in less than 3 seconds as required by NFPA.

All discharges shall have a polished aluminum cast trimplate and a color coded name tag.

### LEFT SIDE DISCHARGES

There shall be two (2), 2-1/2" NST discharges on the left side of the pump compartment.

There shall be two (2), 2-1/2" x 1-1/2" NST chrome reducers/adapters with 1-1/2" chrome caps and chains.

### RIGHT SIDE DISCHARGES

There shall be one (1), 2-1/2" NST discharge on the right side of the pump compartment.

There shall be one (1), 2-1/2" x 1-1/2" NST chrome reducer/adapters with a 1-1/2" chrome cap and chain.

### REAR DISCHARGES

There shall be one (1), 2-1/2" NST discharge located at the rear of the apparatus. The discharge shall be located Left hand side

There shall be one (1), 2-1/2" x 1-1/2" NST chrome reducer/adapters with a 1-1/2" chrome cap and chain.

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### CROSSLAY PRECONNECT HOSE BED

Mattydale crosslay preconnects shall have 90 degree elbow type swivel on discharge outlets. There shall be fiberglass Dura-Dek flooring installed under the crosslay hose beds for ventilation and drainage.

Three (3) stainless steel rollers shall be installed at each end of the crosslay hose bed to facilitate deployment of hose.

There shall be two (2), 1-1/2" crosslays in the operator's walkway. The crosslays shall have 2" valves and piping with a capacity for 200' of 1-3/4" hose.

### DELUGE MONITOR

One (1), demountable Akron Apollo 3423 deluge monitor shall be installed. The monitor shall allow for 360 degrees of rotation and be able to move 90 degrees above and 15 degrees below the horizontal. The monitor shall be complete with stack tips, stream shaper and a portable siamese ground base with 2-1/2" swivels.

There shall be one (1), 3" riser pipe for a deluge monitor installed Left side at top at pump panel

The riser pipe shall be installed with a 3" valve, controlled from the pump operator's panel.

### GRASS LINE

There shall be one (1), grass fire line on the side of the apparatus in the Visa-Trol walkway with a 1" full flow quarter turn ball valve, controlled from the operator's panel. The discharge shall be located on the Right hand side

One (1), 1" ID x 10' grass line hose with 1" chrome couplings shall be supplied. The hose and nozzle bracket shall be included. The hose shall be located Right hand side

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### BOOSTER REEL

There shall be one (1), Hannay steel fabricated electric rewind booster reel with a capacity of 200' of booster hose. The reel shall have a 1-1/2" quarter turn ball valve controlled from operator's panel and piping connected with 1-1/2" flexible hose. An automatic brake and an auxiliary manual rewind crank shall be supplied. The booster reel shall be equipped with vertical and horizontal hose guide rollers. The booster reel shall be located Rear compartment

One (1), 150' x 1" section of 800# test booster hose coupled with 1" NST chrome plate coupling shall be supplied.

### WATER TANK

The water tank shall have a capacity of 900 U.S. gallons

The water tank shall be constructed of 10 gauge hot rolled steel with a bolt-on removable top for inspection and clean out. The removable lid shall be fastened with screws on the outside of the tank so they are never in contact with the tank water. The opening in the top of the tank shall be large enough to allow access to all tank compartments for inspections and maintenance.

The tank bottom shall be reinforced by welding square steel tubing onto it where the tank rests on the chassis frame rails. This tubing shall run the entire length of the tank and shall be the only part of the tank to come into direct contact with the chassis frame rails.

The tank shall be designed in a tee shape to allow for maximum storage in the lower side compartments. The end and side panels shall have a 1-1/2" groove broken into the plates for additional strength.

The tank shall be built with proper splash baffles that run lengthwise and crosswise throughout the tank to comply with NFPA Pamphlet 1901. The baffles shall be constructed and installed in a manner that prevents rapid shifting of the water while the truck is moving but still allow maximum flows through all connections.

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The tank shall be built entirely separate from the body and shall be removable without requiring any body disassembly.

The minimum dimensions of the overflow discharge shall be 3" x 5". The overflow shall be built up in the fill tower and shall discharge under the tank, behind the rear wheels. The tank sump shall be 10" x 10" x 8" deep. A 3" clean out plug shall be provided at the bottom of the sump.

The fill opening shall be at least 8" x 8" with a hinged lid and pop open release latch so the lid will self open if the tank is filled at an excess rate. A removable screen shall be located in the fill tower to prevent foreign objects from falling into the tank.

After the tank is completely fabricated it shall undergo a five stage dip vat degrease and etching process and then be fully submerged while being hot dip galvanized.

THE TANK SHALL HAVE A NON-PRORATED TWENTY YEAR WARRANTY. The warranty shall require no future purchases on the part of the fire department or visual inspections in order for it to be validated.

### WATER TANK LEVEL GAUGE

There shall be one (1), electronic MC Products 4 light water tank gauge visible from the pump operator's position. The tank sensor shall be a stainless steel cleanable type and shall be able to be removed from the tank without removing the hose bed flooring.

### WATER TANK VALVES AND PIPING

One (1), 1-1/2" tank drain valve shall be provided under the tank sump. The valve shall be operated from the left side of the apparatus and shall have a locking lever to prevent accidental draining of the tank.

There shall be a check valve between the pump suction and the booster tank valve. The check valve shall eliminate back flow into the water tank when the pump is connected to a pressurized source.

## CITY OF SOUTH HUTCHINSON

There shall be one (1), 3" full flow ball valve connected with a flexible hose from the tank to the suction side of the pump.

There shall be one (1), 1-1/2" full flow tank fill valve plumbed with 1-1/2" plumbing from the discharge side of the pump to the tank.

### OPERATOR'S CONTROL PANEL

The top mount "Visa-Trol" operator's control panel shall be above the pump, accessible from the center walkway directly in front of the pump. All valve control levers and throttle shall be on the lower front surface of the panel. The relief valve, bypass valve, heat exchanger valve, and all pressure and vacuum gauges shall be on the rear incline surface of the panel. The electrical instrument module shall be on the upper rear flat surface with all electrical switches, oil pressure, temperature & ammeter gauges, electric tachometer, relief valve indicating lights & booster tank water level gauge neatly arranged on the front side of the module. The top part of the module shall have an extended forward section with four (4), operator panel lights. One (1), of the panel lights shall be wired to come on immediately upon completion of pump shifting to provide light at the panel for night operations.

All valve control levers and instruments shall be neatly arranged for easy access and visibility from the operator's location. All valves shall be the self locking type, activated by a lever control with direct linkage utilizing friction locking bell cranks and universal ball swivels. The slots for the control levers shall have an etched zinc bezel to trim the opening. This bezel shall be color coded and shall be labeled "OPEN" and "CLOSED".

The vertical door ahead and below the operator's control station shall be fabricated of aluminum and shall be easily removable for pump training and service.

The electrical module shall be fabricated from aluminum. A hinge shall be located in front of the module and a quick release closure at the rear to allow the module to flip forward for servicing the electrical panel.

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The operator's control panel and the right side pump panel shall be fabricated from 12 gauge galvanized steel covered with heavy duty non-glare vinyl that is capable of withstanding the effects of extreme weather and temperature. The panels shall be retained with corrosion resistant fasteners and shall be easily removable for service.

### INSTRUMENT PANEL

The master pump gauges shall be 4-1/2" diameter, liquid filled, -30-0-600 PSI compound gauges.

There shall be seven (7), Span Instruments individual pressure gauges. Each gauge shall be the liquid filled compound type reading -30-0-600 PSI and shall be a minimum of 2-1/2" in diameter. The gauges shall be

The master pump gauges and individual pressure gauges shall have black faces with white numbers and lettering.

All water carrying gauge lines shall be flexible polypropylene tubing.

There shall be one (1), superior quality vernier type hand throttle, with positive locking quick-center release and a stainless steel shaft controlling the fuel supply to the engine. The hand throttle shall be located so that it can be easily controlled from the pump operators position with all gauges in full view.

The following shall be located at the pump operator's panel:

- One (1), electric tachometer to indicate the speed of auxiliary engine when operating crossmount fire pump.

- One (1), pump revolution adapter drive with cap to check revolutions of fire pump impeller.

- Oil pressure and water temperature gauges for the auxiliary engine with visual and audible warning device to warn of difficulties shall be provided.

- One (1), auxiliary engine voltmeter.

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There shall be sufficient instrument panel lights operated from a panel mounted switch.

Pressure and vacuum test gauge adapter with 1/4" chrome plugs.

One (1), pump cooling and recirculating valve.

One (1), pressure relief valve control with indicating lights.

One (1), auxiliary engine cooling valve.

An electric primer activating lever with indicating light.

Electronic MC Products 4 light booster tank water level gauge.

Auxiliary engine hour meter.

Pumping hour meter.

### BODY CONSTRUCTION/COMPARTMENTATION

The body shall have a five (5) year warranty.

All body compartments and sides shall be fabricated of 12 gauge Galvanneal steel. The complete body shall be of Uni-Body construction using break and bend techniques to form the sheet metal into a strong yet flexible structure. The entire body shall be fabricated using precision holding fixtures to ensure proper dimensions. The body assembly shall be securely bolted to the chassis frame rails with a minimum of six 3/4" bolts in the rear and four 1/2" bolts in the front of the apparatus. All attachment points shall be heavily reinforced.

The under structure of the rear step area shall consist of a framework constructed of 2-1/2" x 2-1/2" x 3/16" steel tubing connected directly to the chassis frame and extending the full length of the rear step. The corners of the rear step area shall be trimmed with cast aluminum corners.

The fenders shall be integral with the sides of the body. Fender wells shall be constructed with full circular

## CITY OF SOUTH HUTCHINSON

innerliners for ease of cleaning and maintenance. Sufficient clearance shall be provided to allow the use of tire chains when the apparatus is fully loaded. The running boards and rear step shall have 3" formed channel edges and shall be fabricated from 12 gauge galvalume steel.

There shall be two (2), polished aluminum rear fenderettes, one each side. The fenderettes shall be bolted to the apparatus body using nylon washers to space them slightly away from the body to reduce build-up of road grime. The fenderettes shall be constructed of .080 polished aluminum.

The side compartments shall have sweep out type floors. All the compartments shall be made to the largest practical dimensions to provide maximum storage capacity.

The lap type compartment doors shall be of double panel construction. The outer panel shall be fabricated of .190, 5052-H32 aluminum and the inner panel of .125, 3003-H14 aluminum. There shall be a heavy duty automotive type extruded rubber molding installed on the overlap area of the doors to insure a weatherproof seal and prevent water from collecting in the door sills. All of the compartment doors shall utilize an offset polished stainless steel continuous hinge connected to both the body and the door with stainless steel bolts and nuts. The hinge shall be designed in such a manner that, when open, the door does not intrude into the door opening area. The hinge pin shall be stainless steel with a minimum diameter of 1/4".

Compartment door handles shall be Hansen 79L stainless steel recessed type with non-directional bent "D" type handles. There shall be an adjustable Eberhard 3-206U single point center latch with double catch furnished on all compartments.

Cleveland spring loaded door holders shall be furnished on all swing-out compartment doors to hold the door open or closed. The spring loaded door holder shall close the door automatically when the door is positioned over center.

Pressurized gas filled cylinders shall be furnished on all lift-up compartment doors to raise and hold the door in the open position.

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On compartments having double doors, the secondary door shall have a latch mechanism to secure the door when the primary door is opened.

Each body compartment shall be properly vented in a manner that will reduce the amount of dirt and water that may enter the compartment. Venting shall be directly to the atmosphere rather than into another compartment which would only spread moisture throughout the body rather than dissipate it. Venting shall be accomplished by punching a series of louvers into the sheet metal prior to forming it, bolt-on vents or welded in vents will not be acceptable.

All compartments, including the pump compartment, shall be furnished with a light mounted on the ceiling of the compartment unless otherwise specified. Each compartment light shall be activated by an automatic door switch.

All compartments, utilizing a horizontally hinged swing-up door, shall have two (2), lights recessed in the door. These lights shall be activated by an automatic door switch.

Four (4), mudflaps shall be installed, two at the front and two at the rear. The mudflaps shall be a minimum of 3/8" thick to prevent "sailing".

All steps shall have a surface area of at least 35 square inches and shall be able to withstand a load of at least 500 pounds. Steps shall be provided at any area that personnel may need to climb and shall be adequately lighted. Each folding step shall have two large open slots to prevent buildup of ice or mud and to provide a handhold when necessary.

Bright dip anodized polished aluminum rubrails measuring 1-1/2" x 3/8" shall be spaced 5/8" from the body using non-corrosive nylon spacers and secured by stainless steel bolts. The ends shall be angled toward the body for safety and a pleasing appearance.

All compartment floors that do not have permanently mounted equipment shall be protected with Dri-Dek tiles. The tiles shall be black with yellow angled leading edges.

## CITY OF SOUTH HUTCHINSON

There shall be one rear tow eye directly below the rear step attached to the chassis frame by a trussed subframe. The subframe shall consist of steel tubing that extends to the outermost edge of the rear step area. The tow eye shall be strong enough and accessible enough to allow chain attachment from a 90 degree angle.

Aluminum scuff plates shall be installed in the bottom sill area of all compartments to reduce paint damage from equipment. The scuff plates shall be attached using a permanent bonding double sided tape.

The rear side compartments shall have no bulkheads to separate them from the low rear compartment thus forming one large compartment at the rear of the apparatus where long tools or bulky equipment may be stored.

### LEFT SIDE COMPARTMENTS

There shall be one (1), low compartment ahead of the rear wheels. This compartment shall have a door opening of approximately 28" high and shall have a usable depth of 23". This compartment shall have a single vertically hinged swing-out door.

There shall be two (2), high side compartments. Each compartment shall have a door opening of approximately 28" high and shall have usable depth of 12-1/4". Each compartment shall have a horizontally hinged lift-up door.

There shall be one (1), low compartment behind the rear wheels. This compartment shall have a door opening of approximately 28" high and shall be transverse. This compartment shall have a single vertically hinged swing-out door.

### RIGHT SIDE COMPARTMENTS

There shall be one (1), low compartment ahead of the rear wheels. This compartment shall have a door opening of approximately 28" wide and shall have a usable depth of 23". This compartment shall have a single vertically hinged swing-out door.

## CITY OF SOUTH HUTCHINSON

There shall be one (1), compartment behind the rear wheels. This compartment shall have a door opening of approximately 28" high and shall be transverse. This compartment shall have a single vertically hinged swing-out door.

### REAR COMPARTMENTS

There shall be one (1), low compartment. This compartment shall have a door opening of approximately 34" wide x 28" high and shall have a usable depth of approximately 30". This compartment shall have a dutch door that is fully removable without the need for hand tools.

There shall be one (1), high compartment. This compartment shall have a door opening of approximately 43" wide and a varying height between 12" - 20" dependant upon the size of the water tank selected. This compartment shall have a horizontally hinged lift-up door.

There shall be a fire extinguisher compartment with bracket on rear left hand side of apparatus. The upper section of this compartment shall have storage for pike poles and folding ladders.

### ADJUSTABLE SHELF

There shall be one (1), adjustable shelf, it shall be constructed of heavy gauge aluminum sheet. The shelf shall be fabricated in such a manner that liquids readily drain when spilled on it. The floor of the shelf shall be covered with Dri-Dek flooring tiles to provide drainage and ventilation of equipment. The shelf shall be installed in lower front compartment on right side

### AIR PACK BRACKETS

There shall be four (4), walk-away type air pack brackets installed on the apparatus. The brackets shall be in top four compartments on left side

### AIR BOTTLE COMPARTMENTS

## CITY OF SOUTH HUTCHINSON

There shall be two (2), three cylinder air bottle compartments constructed using PVC tubing to hold each bottle. The PVC tubes shall be enclosed in a weather resistant box constructed of the same material as the body and angled slightly downward at the rear to keep the bottles from jamming against the door. The PVC tubes shall be removable for cleaning and there shall be a piece foam attached to the area where the base of the cylinder comes into contact with the aluminum. The compartment shall be located one each side of the apparatus. behind rear wheel one on each side

### HOSE BED

The hose bed compartment shall have a minimum of 55 cubic feet of storage space and shall be not less than 67" in width.

The floor of the hose bed compartment shall be constructed of Dura-Dek fiber reinforced plastic material. The flooring shall be fabricated of "T" beam pultrusions in parallel connected with cross slats that are first mechanically bonded and then epoxied, forming a large sheet.

The top portion of each "T" cross section shall measure 1-1/4" wide and 3/16" thick with beaded ends. The vertical portion shall be 3/8" thick, beading out at the bottom to a thickness of 1/2" and tall enough to result in an overall height of 1". The "T" sections shall be spaced 3/4" apart to allow for drainage and ventilation.

Each "T" beam shall be constructed utilizing a core of 250,000 continuous glass fiber strands that are high in resistance to tension, compression and bending. An outer sheath consisting of a continuous strand mat to prevent lineal splitting and shipping shall surround the core. The sheath shall also serve to draw the protective resin to the bar surface. Both reinforcements shall be pulled through an isophthalic polyester resin, treated with antimony trioxide for fire resistance, to form a solid length.

The flooring shall then be protected with a polyurethane coating to screen out ultraviolet rays. This bright white coating shall be baked on and shall provide a pleasing contrast when installed in the apparatus.

## CITY OF SOUTH HUTCHINSON

At the front of the flooring shall be a removable stainless steel cover to provide access to the tank gauge sending unit without the need to remove the flooring.

There shall be two (2), hose bed partitions. The partitions shall be mounted on galvanized slide rails at the front and rear of the hose bed. The slide rails shall allow full movement of the hose partitions along the width of the hose bed providing for different hose load capacities.

### GROUND LADDERS

The ground ladders shall be mounted on the right side of the apparatus, above the low side compartments. Ladder brackets shall have quick release spring loaded chrome latches. The brackets shall be mounted on a slotted plate that will allow adjustment of the brackets vertically and horizontally to accept different ladders with simple adjustments.

The following ladders shall be furnished by body builder at the time of delivery:

One (1), 14' roof ladder. Duo Safety 775A

One (1), 24' Two section extension ladder. Duo Safety 900A

### HARD SUCTION HOSE

There shall be a hard suction hose compartment above the ladders on the right side with rear quick release velcro straps.

The following hard suction hose shall be supplied by body builder at the time of delivery:

Two (2), 5" x 10' lengths of flexible PVC hard suction hose.

### RUNNING BOARDS, WALKWAYS AND OVERLAYS

## CITY OF SOUTH HUTCHINSON

The running boards shall be constructed of structural material that is integral with the body. They shall be overlayed with aluminum treadplate material to provide a slip resistant surface.

Aluminum treadbrite plate overlays shall be sprayed with a clear coat sealer on back side that is pliable and resistant to scratches and chips to provide an insulating barrier between dissimilar metals when it is bolted to the body. After painting and final construction, overlays shall be additionally sealed at the edges with a caulking compound that will stay pliable throughout the life of the apparatus.

Overlays shall be installed with stainless steel bolts that are totally insulated from the overlay with nylon shoulder washers that extend into the hole that is drilled into the aluminum. Nylon cap nuts shall be employed where bolts may damage equipment or cause injury. Treadplate overlays shall be provided in the following areas:

Walkways, running boards, upper intermediate and rear step.

Front compartment vertical areas on both sides.

All rear inside faces and vertical areas below rear intermediate step.

All rear inside faces and vertical areas above rear intermediate step.

Left side upper catwalk and extending down over the compartment doors, then forming a driprail above the doors.

Chassis step and chassis fuel tank.

Right side upper catwalk extending down over the side.

Right side above lower compartments extending down over the body side and then flanged out forming a driprail above compartment doors.

## CITY OF SOUTH HUTCHINSON

### HAND RAILS, GRAB RAILS AND STEPS

Hand rails shall be constructed of ribbed extruded aluminum of not less than 1-1/4" in diameter. All railing escutcheons and brackets shall be stainless steel or chrome plated, and shall be bolted to the body with stainless steel bolts. The lower bracket on all vertical handrails shall have a drain hole drilled in it at the lowest point. Hand rails shall be provided in the following areas:

Grab handle on top of catwalk on the left side of the apparatus in front of the tank fill tower.

Each side entrance to the walkway.

Horizontal hand rail in front of Visa-Trol operator's control levers.

Entrance on each side of pump compartment.

Horizontal intermediate rear hand rail.

Rear vertical hand rail from top of body to rear step, one on each side of body.

Short handrail at the top of the hosebed on left side.

Short handrail at the top of hosebed on right side.

Two (2), chrome folding steps on left front compartment.

One (1), chrome folding step on right front compartment.

Four (4), aluminum corner steps, two on each rear corner of body.

### ELECTRICAL SYSTEM

There shall be two (2), rear Weldon 1010 series combination brake/turn/tail lights flush mounted on the rear of the apparatus, one on each side. The lights shall be 7.12" in diameter.

## CITY OF SOUTH HUTCHINSON

Brake lights shall be Weldon 1010 series and shall be flush mounted. The back up lights shall be 7.12" in diameter.

Clearance lights and reflectors to comply with I.C.C. regulations shall be supplied.

Wiring harnesses shall be the automotive type, engineered specifically for the builder's apparatus, and shall meet the following criteria. Under no circumstances shall diodes, resistors, or fusible links be located within the wiring harness. All such components must be located in an easy to access wiring junction box or the main circuit breaker area.

All wire shall meet white book, baseline advanced design transit coach specification and Society of Automotive Engineers recommended practices. It shall be stranded copper wire core with cross linked polyethylene insulation complying with SAE specification J1128 type SXL. Each wire shall be hot stamp function coded every three inches starting one inch from the end and continuing throughout the entire harness. In addition to function coding, each wire shall be number and color coded.

All terminals on the ends of the wiring harness shall be soldered unless a crimping tool or machine is used that gives an even and precise pressure for the terminal being used. All terminals shall be pull tested to insure their integrity.

A main electrical panel shall be located in the rear surface of the left front lower compartment, next to the chassis frame rail. The compartment shall be highly weather resistant and shall not reduce the size of the compartment. The panel shall contain a board with permanent sockets for relays, diode blocks, and automatic reset circuit breakers. The board shall be screwed to the back of the compartment and shall have permanent leads, each one routed to a predetermined pin of the correct main bulkhead connector. The bulkhead connectors shall be physically attached to the bottom of the box. The connectors shall be the advanced automotive type with a bolt in the center to mechanically attach the mating connector in a secure fashion. An "O" ring seal shall be an integral feature of the bulkhead connectors to eliminate the chance of water entering the connection and causing corrosion.

## CITY OF SOUTH HUTCHINSON

A minimum of ten (10), spare circuit breaker sockets shall be supplied. All sockets and equipment shall be clearly labeled.

Any circuit which draws 15 nominal amperes shall be switched through relays. Individual loads shall be wired to individual circuit breakers as much as possible. The circuit breakers shall be sized for the individual load rather than selecting a large circuit breaker and ganging loads on until amperage rating of the circuit breaker is reached.

The main electrical panel shall be fed by three harnesses, one from the cab, one from the pump compartment, and one main harness from the body. The main body harness shall be connected to two individual body harnesses, one for the left side and one for the right side of the body. Each harness shall be equipped with several spare wires from one end of the harness to the other. At any place where the harness or sub-harness pass through metal, heavy rubber grommets shall be installed to protect it.

A complete electrical schematic for the apparatus shall be provided. This schematic shall be specifically prepared for this individual unit rather than a generic schematic designed to accommodate all apparatus.

There shall be lights supplied on the pump operator's panel, side discharge panels, and one (1) light in the pump compartment. The pump operator's panel and side discharge lights shall be activated when the parking brake is engaged and the pump compartment light shall be activated by an automatic switch in the pump compartment access door.

Lights shall be mounted in a manner that illuminates all walkways and steps for safe operation of the apparatus. These lights shall be activated when the parking brake is engaged.

There shall be a switch at the rear of the apparatus to activate the backup lights when the parking brake is set. This switching circuit shall be deactivated when the parking brake is released.

## CITY OF SOUTH HUTCHINSON

An electronic back-up alarm shall be installed and wired so as to alert personnel any time the transmission is shifted into reverse gear.

One (1), 12 volt work light with integral switch shall be installed in the chassis engine compartment.

Lights in the body compartments shall be activated by an automatic door switch.

There shall be a master electrical module on the chassis dash for all emergency light switches, master switches and gauges. The electrical module shall be vinyl covered.

A master emergency light switch shall be installed on the electrical module. This switch shall allow the preselection of emergency lights and siren so they may be energized with the flip of a single switch.

A Southern Vehicle Products "Hot Shot" model 1185H rotating light shall be supplied within the driving compartment to warn of an open compartment or passenger door. The light shall be wired in such a manner that it only will be energized upon release of the parking brake.

A green light shall be supplied on the chassis dash to indicate when the auxiliary engine is running.

There shall be a single battery system with dual batteries. The master battery disconnect system shall have Perko manual roll switch connected to the batteries, eliminating the need for an isolator.

A flush mount quick disconnect 12 volt DC charge receptacle shall be installed at the left side of the chassis cab by the driver's door.

### LIGHTING EQUIPMENT

Two (2), Unity AG-R deck lights shall be mounted high at the rear of the apparatus to illuminate the hose bed loading area. These lights shall be energized by a switch located directly on the lamp heads.

Two (2) Unity model 225 spotlights with halogen bulbs shall be mounted on the cab posts, one on each side, with the control handles inside the cab.

## CITY OF SOUTH HUTCHINSON

There shall be one (1), Collins KS-1 12 Volt telescoping spot/flood light, rated at 750,000 candle power with a current draw of 7.8 amperes on spot and 4.3 amperes on flood . The light shall be located on the right at the pump handle.

### WARNING EQUIPMENT

There shall be one (1), Federal PA300M electronic siren with microphone supplied.

One (1), Cast Products polished aluminum 100 watt speaker shall be recessed in the front bumper.

One (1), Federal 25RQL-Fast Aerotwinsonic light bar shall be mounted on the chassis cab roof. This light bar shall be 52" in length and includes two (2), 95 FPM rotators, two (2), 175 FPM rotators, and four (4), cascade mirrors.

Two (2), Public Safety Force 4 550 beacon lights shall be mounted high at the rear of the apparatus. The warning lights shall be red.

Two (2), Weldon 1020 alternately flashing lights shall be mounted in the front of the chassis cab. The warning lights shall be red.

Two (2), red Whelen MC-100HI intersector lights shall be mounted on the apparatus ahead of the front wheels.

### PAINTING, LETTERING AND STRIPING

After the body and components have been fabricated and assembled they shall then be disassembled prior to painting so when the apparatus is completed there will be finish paint beneath the removable components. The body shall be totally removed from the chassis during the painting process to insure the entire unit is covered. The apparatus body and components shall be metal finished as follows to provide a superior substrate for painting.

All galvanneal steel sections of the body shall undergo a five step degreasing/cleaning process starting with an alkaline cleaner to degrease the metal surface and then rinsed. Next a phosphoric acid rinse shall be performed

## CITY OF SOUTH HUTCHINSON

to begin the etching process. A phosphatizer shall be applied to continue the etching process and deposit a protective film on the metal surface. The last step shall consist of a non chromatic rinse to seal the protective film and rinse off excess solution. All aluminum surfaces shall undergo the last four steps in the cleaning process since degreasing of the metal is not needed.

After the cleaning process the body and it's components shall be primed with an epoxy primer and the seams shall be caulked.

The interior of the compartments shall be finished with splatter type painting to provide a scratch and scuff resistant surface. The splatter paint process shall consist of applying two (2), coats of white polyurethane base then splatter painting the compartments with three (3), different colors.

All bright metal fittings, if unavailable in stainless steel, shall be heavily chrome plated. Iron fittings shall be copper underplated prior to chrome plating.

One (1) pint of touch-up paint shall be supplied.

The apparatus shall undergo a two (2) step undercoating process. The first step shall be a rubberized polyurethane base compound that is applied after the body has been primed. This coat shall be applied to all hidden pockets and surfaces that will not be visible after completion. As a final step, the entire underside of the body shall be coated with a bituminous based automotive type undercoating when the apparatus is completed.

The apparatus shall be painted with PPG Ditzler polyurethane enamel paint.

The apparatus shall be painted red.

The complete outside of the chassis shall be repainted to insure a perfect color match with the body.

The lettering shall be simulated gold leaf adhesive backed letters outlined in black and hand shadowed.

The chassis wheel rims shall be painted and have silver trim around the outer edges.

## CITY OF SOUTH HUTCHINSON

There shall be simulated gold leaf adhesive backed striping, outlined in black, around all compartments.

There shall be a 4" Avery reflective stripe affixed to the perimeter of the apparatus body and chassis cab. The color of the stripe shall be white.

### CENTER WALKWAY

There shall be two (2) Fire Research ManSaver bars installed, one on each end of the walkway.

There shall be two (2), mattydale crosslays with chicksan swivels under the bench seat. Each crosslay shall have a capacity of 200' of 1-1/2" double jacket fire hose. Stainless steel rollers shall be provided on each side. The seat shall be hinged at the rear for easy access to the water connections.

The seat will be sealed around all edges to prevent outside air from entering the cab.

There shall be two (2), compartments below crosslay hose bed, one on each side. The compartments shall extend in depth to chassis frame and have treadbrite aluminum swing-out doors.

There shall be a tool compartment on the left side under the pump operator's walkway. The compartment shall have a vertically hinged swing-open door fabricated from tread plate aluminum with a "D" ring handle. This compartment shall have Dura Dek panel flooring and two (2), drain holes at the rear of the compartment.

There shall be a tool compartment on the right side under the pump operator's walkway. The compartment shall have a vertically hinged swing-open door fabricated from tread plate aluminum with a "D" ring handle. This compartment shall have Dura Dek panel flooring and two (2), drain holes at the rear of the compartment.

### CREW CAB EXTENSION

The existing cab shall be modified with an extended and fully enclosed crew cab, capable of seating two persons.

## CITY OF SOUTH HUTCHINSON

Sound insulation shall be provided to meet and exceed NFPA Pamphlet 1901.(Latest Revision)

The extension shall be constructed of the same material as the chassis cab and welded into place.

A center rubber support between the frame and the extension shall be located to carry the additional weight of the enclosure, personnel, and equipment.

The sides of the extension shall be contoured to follow the lines of the cab, while the top shall be raised ten inches to provide additional head room.

Two doors shall be provided, one on each side, opening into the walkway. Each door shall have a full length stainless steel hinge. The doors shall be fabricated of aluminum and be of double panel design with two point "D" ring automotive type hardware. An automatic switch on each door shall be wired into the open compartment light circuit.

A bench seat shall be provided, facing rear, with properly fastened seat belts at both seating positions. The seat back shall be designed to hold two breathing apparatus.

Two (2), 12 volt lights shall be provided on the ceiling.

Dark sliding glass windows shall be located on the sides of the crew compartment and in each door.

### SPECIAL LABELS

A permanent plate shall be mounted in the driver's compartment specifying the quantity and type of the following fluids used in the apparatus for normal maintenance:

1. Engine oil
2. Engine coolant
3. Transmission fluid
4. Pump transmission fluid
5. Pump primer fluid
6. Drive axle fluid

CITY OF SOUTH HUTCHINSON

A permanent plate shall be affixed in the driver's area that states the maximum number of personnel allowed to ride on the apparatus at any time.

All appropriate labels to ensure safe operation of the apparatus shall be permanently affixed in conspicuous locations.

## F O R D T R U C K S

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08/01/1995

Time: 12:50 PM

Sapp Bros Trucks, Inc.  
I-80 and Hwy 50  
Omaha Ne 68138  
402-895-4333 FAX: 402-895-5011

DANKO EMERGENCY EQUIPMENT CO  
DEMO FOR MARK  
115 ASH STREET  
SNYDER, NE 68664  
402-568-2288 FAX: 402-568-2279

PREPARED BY: A. KENT KUEHN

PREPARED FOR: MR. MARK KREIKEMEIER

QUOTE ID: DEC9602  
NO. OF UNITS: 1

## E Q U I P M E N T D E T A I L



( Price Level = 601 Model Year = 1996 Version = v1.88U.0.0 )  
( Weight in Pounds )

DESCRIPTION	CLASS	WEIGHT	
		FRONT	REAR
F700 Conventional - Gas		0	0
AA Vehicle Type	Opt	0	0
Veh Des. Truck	Opt	0	0
Veh Ser. On/Off Highway	Opt	0	0
Veh App. Fire & Emergency	Opt	0	0
Terrain. Max 10% Off-Highway	Opt	0	0
Rd Surf. Typical Highway	Opt	0	0

## F O R D T R U C K S

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08/01/1995

Time: 12:50 PM

PREPARED BY: A. KENT KUEHN

PREPARED FOR: MR. MARK KREIKEMIER

QUOTE ID: DEC9602

NO. OF UNITS: 1

( Price Level = 601 Model Year = 1996 Version = v1.85U.0.0 )  
 ( Weight in Pounds )

	DESCRIPTION	CLASS	WEIGHT	
			FRONT	REAR
WB	Wheelbase WB=238 CA=168 AF=130 OAL=403	Opt	4573	3434
40	Frame 26.5 SM 110,000 PSI Dbl Channel Bolted	Opt	397	637
30	Engine Ford Gas 7.0L H.O. 236 HP 3600 RPM	Opt	0	0
56	Transmission Allison MT-643 4-Speed Automatic	Opt	385	57
11	Rear Axle 23000 lb Rockwell RS-23-160 Steel 1S Axle Ratio 6.83	Opt Opt	0 0	0 395
10	Front Axle 12000 lb Front Axle	Opt	112	0
46	Front Suspension 13200 lb Capacity	Opt	247	0
47	Rear Suspension 24500 lb Capacity w/4500 lb Sgl Leaf Aux	Dsc	0	102
16	Brake Hydraulic Brakes Front Disc Hydraulic Brakes Rear HD	Std Inc	0 0	0 0
13	Axle Equipment/Driveline King Pin Bushings - Bronze Differential(s), Main, Non-Locking Drag Link & Tie Rods, Greaseable	Std Std Std	0 0 0	0 0 0



## F O R D T R U C K S

Time: 12:50 PM

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08/01/1995

PREPARED BY: A. KENT KUHN

PREPARED FOR: MR. MARK KREIKEMEIER

QUOTE ID: DEC9502  
NO. OF UNITS: 1( Price Level = 601 Model Year = 1996 Version = v1.88U.0.0 )  
( Weight in Pounds )

	DESCRIPTION	CLASS	WEIGHT	
			FRONT	REAR
13	Axle Equipment/Driveline (cont)			
	Magnetic Traps - Drain & Fill Plugs	Std	0	0
	Single Power Steering Ross TAS-65	Inc	0	0
	Shock Absorbers, Front Dbl Act Telescopic	Std	0	0
	Wheel Seals Front, Stemco Unitized	Dso	0	0
	Wheel Seals Rear, C.R. Scotseal	Std	0	0
19	Brake Equipment			
	Hydraulic Booster	Std	0	0
	Parking Brake, Spring-Sat Rear Axle	Std	0	0
50	Front Tire Size & Mfg			
	Tubeless Radial 11R22.5-14 12,080	Opt	0	0
	Goodyear Unisteel G159A	Opt	62	0
52	Front Wheel			
	Disc 10H Steel 22.5x8.25 1 pc	Opt	46	0
51	Rear Tire Size & Mfg			
	Tubeless Radial 11R22.5-16 23,200	Opt	0	0
	Goodyear Unisteel G124	Opt	0	152
53	Rear Wheel			
	Disc 10H Steel 22.5x8.25 1 pc	Opt	0	92
22	Cab			
	Standard Interior Trim Med. Opal/Ebony	Std	0	0
23	Exterior Cab Equipment			
	Grille Medium Titanium	Std	0	0
	Grille Surround Molding Bright	Opt	4	0
	Hood Forward Tilting Front End	Std	0	0
	Horns, Dual Electric	Opt	3	0

TRUCKS

## F O R D T R U C K S

Time: 12:51 PM

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08/01/1995

Sapp Bros Trucks, Inc.  
I-80 and Hwy 50  
Omaha Ne 68138  
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DANKO EMERGENCY EQUIPMENT CO  
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PREPARED BY: A. KENT KURHN

PREPARED FOR: MR. MARK KREIKEMBIER

QUOTE ID: DEC9602  
NO. OF UNITS: 1

## W A R R A N T Y C O V E R A G E

( Price Level = 601 Model Year = 1995 Version = v1.88U.0.0 )

Code : 641R00 Standard Warranty Coverage

Model: F700

Component	Time and Mileage*	P & L Covg.
Total Vehicle	0-12 Mo./Unlimited Miles	100%
Engine	0-12 Mo./Unlimited Miles 13-24 Mo./Unlimited Miles	100% 50%
Drivetrain	0-12 Mo./Unlimited Miles 13-24 Mo./Unlimited Miles	100% 50%
Clutch (excluding clutch lining)	0-12 Mo./Unlimited Miles	100%
Frame	0-60 Mo./Unlimited Miles	100%
Air Conditioner	0-12 Mo./Unlimited Miles	100%
Cab Corrosion	0-36 Mo./Unlimited Miles	100%
Cab Structure	0-12 Mo./Unlimited Miles	100%
Emissions	0-12 Mo./Unlimited Miles 13-60 Mo./0-50,000 Miles	100% 100%

\*NOTE: Except where the table shows otherwise, all coverages begin at the time of vehicle delivery to first user and are limited to the indicated number of months or total lifetime vehicle miles, whichever occurs first. Coverages do not include tires, batteries, maintenance items, Allison automatic transmissions, diesel engines not manufactured by Ford, or any equipment not installed by Ford.

For complete warranty details, including specific terms and conditions



F O R D T R U C K S

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08/01/1995

Time: 12:51 PM

PREPARED BY: A. KENT KUBEN

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QUOTE ID: DEC9602  
NO. OF UNITS: 1

W A R R A N T Y C O V E R A G E

( Price Level = 601 Model Year = 1995 Version = v1.88U.0.0 )

of warranty coverage, consult the "Warranty Information" booklet  
delivered with your vehicle.

TRUCKS