

City of Mt. Pleasant, Michigan

# CONTRACT DOCUMENTS

For

**New DANKO XL Skid Unit with a 250 gallon Defender Poly Tank**



**KATHLEEN L. LING**

Mayor

**Nancy Ridley**

City Manager

Prepared By:  
Mt Pleasant Fire department

**Rick Beltinck**

Fire Chief

February 2016

City of Mt. Pleasant, Michigan  
**TABLE OF CONTENTS**

**New DANKO XL Skid Unit with a 250 gallon Defender Poly Tank**

**Bidding Information**

Notice to Bidders

Instructions to Bidders

**Contract Documents**

Proposal

**Specifications**



THE CITY OF  
**MT. PLEASANT, MICHIGAN**

**CITY HALL**

320 W. Broadway • 48858-2447  
(989) 779-5300  
(989) 773-4691 fax

**PUBLIC SAFETY**

804 E. High • 48858-3595  
(989) 779-5100  
(989) 773-4020 fax

**PUBLIC WORKS**

1303 N. Franklin • 48858-4682  
(989) 779-5400  
(989) 772-6250 fax

## NOTICE TO BIDDERS

### **New DANKO XL Skid Unit with a 250 gallon Defender Poly Tank**

The City of Mt. Pleasant, Michigan, is requesting sealed bids at the Office of the City Clerk, City Hall, 320 West Broadway Street, Mt. Pleasant, Michigan 48858, until 1:30 p.m. (local time), on Tuesday, March 8, 2016, at which time and place the bids will be publicly opened and read. All bids shall be submitted in a sealed envelope, plainly marked "**New DANKO XL Skid Unit with a 250 gallon Defender Poly Tank – March 8, 2016**". Bidders must include manufacturer's specifications and the City's specifications sheets, indicating ability to comply, with the bid proposal.

Proposals are solicited on a lump sum basis, for the following:

### **New DANKO XL Skid Unit with a 250 gallon Defender Poly Tank**

No bid deposit or bond is required with this bid.

To view and download complete Plans and Specifications at no charge, visit the City of Mt. Pleasant website at [www.mt-pleasant.org](http://www.mt-pleasant.org) and navigate to the Bids and Quotes page.

The City of Mt. Pleasant reserves the right to accept or reject any or all bids, to waive any irregularities in the bids, and to select the bid considered most advantageous to the city.

Rick Beltinck  
Fire Chief  
(989) 779-5152

Jeremy Howard  
City Clerk

City of Mt. Pleasant, Michigan  
**INSTRUCTIONS TO BIDDERS**  
FOR MATERIALS

1. **Proposals**

Proposals must be made upon the forms provided, therefore, with the Bid amount both written and shown in figures, and all other data required submitted.

The Proposal, bound together with all Proposal Documents, must be enclosed in a sealed envelope marked as specified in the Notice to Bidders for such Bid and clearly indicating the name and address of the Bidder and must be received by the City Clerk, City Hall, 320 West Broadway Street, Mt. Pleasant, Michigan 48858, no later than the time and date specified in the Notice to Bidders. At such specified time, Proposals shall be publicly opened and read aloud.

2. **Basis of Proposals**

Proposals are solicited on the basis of unit price(s) and/or lump sum(s), as specified on the Proposal form.

The City of Mt. Pleasant, (also referred to as "Owner"), reserves the right to accept any Bid, to reject any or all Bids, and to waive any irregularities in the Bids, and to select the Bid considered most advantageous to the city.

3. **Comparison of Bids**

In comparing Bids, consideration shall be given to the time proposed for completion of the Contract, qualifications of Bidder, price differentials, alternate Proposals for the alternate items listed in the Proposal (if applicable), and any other pertinent factors. **The City of Mt. Pleasant grants a preference to businesses located within the Mt. Pleasant City Limits. The preference given is a differential above the low bid if the low bid is not from a City of Mt. Pleasant bidder. The differential allowed is 3% of the total for bids between \$5,000 and \$9,999 and 2% of the total for bids over \$10,000. The maximum credit allowed is \$1500.00.** The Owner reserves the right to make an award to the Bidder whose Proposal is deemed to be in the best interest of the Owner.

4. **Time**

Time is of the essence in the performance of the Contract, and each Bidder, by submitting a Proposal, certifies his/her acceptance of the time allowed by the Contract for the completion of the work specified.

5. **Indemnification**

The Contractor shall save and hold harmless the city and its employees from and against all claims, damages, losses, or expenses, including attorney's fees, arising out of or resulting from the performance of the work; provided that any such claim, damage, loss or expense is caused in whole or in part by any negligent or willful act of omission of the

contractor, subcontractor, employee, or anyone under their direction. The Contractor shall at his/her own expense, defend any and all such actions and shall pay all attorney's fees, costs, and expenses pertaining thereto.

## **6. Interpretation of Documents**

If any Bidder is in doubt as to the true meaning of any part of the Plans, Specifications or any Contract Document, he/she may submit to the Owner a written request for an interpretation thereof.

Any interpretation made in response to such query shall be made only by Addendum, duly issued, and a copy of such Addendum shall be mailed or duly delivered to each prospective Bidder. The Owner shall not be responsible for any other explanation or interpretation of the Contract Documents.

## **7. Execution of Bid Proposal**

A Bid Proposal which is not signed by the individual making it should have attached thereto a Power of Attorney evidencing authority to sign the Bid Proposal in the name of the person for whom it is signed.

A Bid Proposal, which is signed by a partnership, shall be signed by all of the partners or by an Attorney-in-Fact. If signed by an Attorney-in-Fact, there should be attached to the Bid, a Power of Attorney evidencing authority to sign the Bid Proposal in the name of the partnership and such Power of Attorney shall be signed by all partners of the partnership.

A Bid Proposal, which is signed for a corporation should have the correct corporate name thereof and the signature of the President, or other authorized officer(s) of the corporation, manually written below the corporate name and on the line indicating "By:\_\_\_\_\_." If such Bid Proposal is manually signed by an officer other than the president of the corporation, a certified copy of the Resolution of the Board of Directors evidencing the authority of such officer(s) to sign the Bid Proposal should be attached thereto. Such Bid Proposal should also bear the attested signature of the Secretary of the corporation and an impression of the corporate seal.

## **8. Delivery**

The successful Bidder shall deliver equipment and/or materials as specified to the City of Mt. Pleasant, Fire Department, 804 E High Street, Mt. Pleasant, Michigan, 48858, or as specified in the proposal. The proposal amount should include delivery F.O.B. Mt. Pleasant. All equipment, literature, manuals, warranty papers, and any other items listed in the specifications of the equipment or materials, must be delivered before payment in accordance with this contract.

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February 12, 2016

City of Mt. Pleasant, Michigan  
**New DANKO XL Skid Unit with a 250 gallon Defender Poly Tank  
PROPOSAL**

TO: Office of the City Clerk  
City Hall  
320 West Broadway St.  
Mt. Pleasant, MI 48858

BID DATE: March 8, 2016  
TIME: 1:30 p.m.

In accordance with the specifications and other bid requirements heretofore provided, the undersigned agrees to provide the below listed bid items at the price(s) set forth below. This is a firm bid and not subject to withdrawal or change for a period of sixty (60) days.

<u>BID ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>TOTAL</u>
New DANKO XL Skid Unit with a 250 gallon Defender Poly Tank ,per bid specifications, delivered			
		<b>TOTAL</b>	<b>\$ _____</b> (figures)

\_\_\_\_\_  
(Written) \_\_\_\_\_ and \_\_\_\_/100 Dollars.

**Estimated delivery date to City of Mt. Pleasant:** \_\_\_\_\_

Respectfully Submitted,

COMPANY: \_\_\_\_\_ DATE \_\_\_\_\_

ADDRESS : \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP+4 \_\_\_\_\_

TELEPHONE \_\_\_\_\_ FAX \_\_\_\_\_

AUTHORIZED SIGNATURE \_\_\_\_\_

PRINT OR TYPE NAME & TITLE \_\_\_\_\_

EMAIL \_\_\_\_\_

City of Mt. Pleasant Michigan  
**New DANKO XL Skid Unit with a 250 gallon Defender Poly Tank**

**SPECIFICATIONS**

The Mt. Pleasant Fire Department is requesting sealed bids for **one (1) New DANKO XL SKID UNIT 250 Gallon Defender Poly Tank**. This request outlines the specifications for the vehicle. Included in this bid will be the installation of all equipment as specified, all processing/applicable fees, and delivery to Mt. Pleasant, Michigan. It will be the obligation of the bidder to state specifically any bid requirement that is not met by its proposal. Questions regarding these specifications may be directed to Rick Beltinck, Fire Chief, at (989) 779-5152, or via email to [rbeltin@mt-pleasant.org](mailto:rbeltin@mt-pleasant.org).

Completed Skid Unit shall be delivered to the City of Mt. Pleasant – Fire Department, 804 E High Street, Mt. Pleasant, Michigan, between the hours of 8:00 a.m. and 3:00 p.m., Monday through Friday.

**Specifications of SKID UNIT:**

**FIRE PUMP**

A Waterous 2515-LE pump shall be provided and bolted directly to the specified engine and capable of the following performance:

Max Pressure - 75	@	135 PSI
Max Flow - 150	@	90 PSI

*NOTE: The above manufacturer performance rating is based on maximum full throttle with a flooded suction prior to the installation of associated piping.*

The impeller shall be high strength corrosion resistant bronze, fully enclosed, double hubbed to balance hydraulic thrust, and mechanically balanced to eliminate vibration.

The volute body and head shall be made of high strength aluminum alloy, anodized for superior corrosion resistance. A drain valve shall be located on bottom of the pump volute.

The pump shall have a two (2) year warranty.

The pump shall be firmly mounted to the skid frame or platform behind the water tank.

**PUMP ENGINE**

A Honda GX630 20.8 HP engine shall be supplied and mounted to the pump. This engine shall be an air cooled 4-stroke OHV 90° V-twin style, constructed of Dura-Bore cast iron cylinder sleeves, and featuring an automotive-style lubrication system with a high-pressure trochoid pump and cartridge-style air filter, advanced breather design and 3-piece oil ring.

The engine is equipped with a rev limiter to prevent damage from over revving. A hemispherical combustion chamber, inspired by Honda's racing technology, offers the highest V-twin compression on the market. This chamber increases efficiency and provides more power to your application.

*Note: No manual recoil is provided.*

The engine controls shall be mounted directly on the engine and consist of a keyed electronic

start/stop ignition, manual choke, and throttle control.

The engine shall have a two-year warranty.

### **DISCHARGE PRESSURE GAUGE**

There shall be one (1), discharge pressure gauge installed in line with the plumbing. The gauge shall be a minimum of 2-1/2" in diameter with a white face and black text.

### **PUMP ENGINE OIL DRAIN**

An engine oil drain valve shall be provided and installed utilizing a Fumoto oil drain valve with 3/8" NPT nipple and 1/2" Parker Push-Lok® multi-purpose synthetic rubber hose.

### **PUMP ENGINE FUEL TANK**

A five (5) gallon outboard fuel tank shall be supplied for the pump engine and mounted near the pump. The fuel tank shall be constructed of black high-density polyethylene (HDPE) and connected to the pump engine with an in-line carbon canister to provide low evaporative emissions in order to meet both the California Air Resource Board and EPA.

### **EXHAUST PRIMER**

A combination exhaust primer and a spark arresting muffler shall be supplied with the fire pump. Exhaust priming shall be accomplished by a rotating quarter-turn wafer in the muffler exhaust pipe and activated with a push/pull knob located on the pump engine.

### **APPARATUS PUMP SYSTEM CERTIFICATION**

The pump shall be tested after the pump and all its associated piping and equipment have been installed on the skid unit by the apparatus manufacturer.

### **PLUMBING**

Plumbing shall be a combination of 300 PSI hose and heavy duty stainless steel pipe and fittings with a polished natural mill finish.

All discharges and intake adapters shall be chrome plated brass.

### **DISCHARGE MANIFOLD**

A stainless steel welded pipe manifold shall be attached to the pump discharge with four (4) 1/4" bolts to facilitate all outlets and reduce friction loss. The manifold assembly shall be constructed of 2" round tubing and capable of accommodating up to two (2) 1" discharges and three (3) 1-1/2" discharge outlets.

### **SUCTION MANIFOLD**

A stainless steel welded pipe manifold shall be attached to the suction side of the pump with a Victaulic clamp for easy removal for service and maintenance. The manifold shall have a tee to facilitate a 2" tank to pump and 2-1/2" intake.

All valves, unless otherwise specified, shall be brass Watts full flow quarter-turn valves.

### **TANK TO PUMP**

The tank to pump shall be equipped with a 2" Watts full flow, quarter turn ball valve with a flexible hose to reduce vibration of the pump engine.

### **PUMP TO TANK/RECIRCULATE VALVE**

One (1) 1" tank fill/recirculate line with a 1" Watts full flow, quarter turn ball valve shall be plumbed directly from the pump discharge to the tank with a flexible hose to reduce vibration of the pump engine.

### **INTAKE**

One (1) 2-1/2" male intake shall be mounted to the pump inlet. The intake shall terminate with a chrome plated 2-1/2" NPT female x 2-1/2" NH male bushing. A zinc screen will be provided to prevent foreign objects from entering the pump.

### **CAP WITH CHAIN**

One (1) 2-1/2" NH vented chrome plated cap with chain shall be supplied for the intake.

### **1-1/2" DISCHARGE**

One (1) 1-1/2" NH discharge shall be provided with a 1-1/2" Watts full flow, quarter-turn valve. The discharge shall terminate with a chrome 1-1/2" NPT male x 1-1/2" NH male fitting and be directed to the rear.

### **CAP WITH CHAIN**

One (1), 1-1/2" NH vented chrome cap with chain shall be supplied for the discharge.

### **BOOSTER REEL**

One (1), Hannay model EF4040-17-18 steel electric booster reel(s), with a capacity of 150' of 1" booster hose shall be supplied. The reel(s) shall be painted graphite in color. A 1" Watts full flow, quarter turn valve shall be plumbed from the pump discharge and connected to the booster reel with a flexible hose to reduce vibration from the pump engine.

The booster reel(s) is equipped with a standard 1" 90 degree ball bearing swivel joint with 1" female NPT threads and a standard outlet with 1" male NST threads.

The reel(s) shall be capable of withstanding pressures to 1000 psi and temperature ranges from -60° F to 250° F.

One (1), set of chrome guide rollers shall be mounted high on the left side of the hose reel. The rollers shall provide assistance in pulling the hose off from the reel and guiding it on after use.

One (1), booster reel rewind switch shall be supplied and mounted at the rear of the skid unit.

One (1), 1" x 150' section(s) of 300 lb. working pressure rubber booster hose coupled with 1" NH couplings shall be supplied for the booster reel(s).

The booster reel shall be mounted crosswise above the water tank and deploy to the rear of the apparatus.

## OPEN STORAGE COMPARTMENT

There shall be an internal storage compartment built integral with the water tank and located on the left rear side of the tank. The compartment shall be open from the top of the water tank and be approximately 29" long x 11" wide x 9" deep with two (2) 1/2" drain holes.

*NOTE: This compartment may be converted to a 12-gallon foam cell.*

## WATER TANK

The water tank shall be a UPF Danko Defender XL Series tank with a capacity of 250 US gallons. (Approximate tank dimensions: 60L x 46W x 25H)

The tank shall have a LIFETIME WARRANTY as supplied by the tank manufacturer.

The tank shall be constructed of 1/2" thick UPF PT-2E polypropylene sheet stock with AccTuff resin. The material shall be of a certified, high quality, noncorrosive, stress relieved thermo plastic, black in color, and UV stabilized for maximum protection.

All joints and seams are to be fully nitrogen welded and electronically tested for maximum strength. The unit shall incorporate transverse partitions manufactured of 3/8" UPF PT2E polypropylene (natural in color) which shall interlock with a series of longitudinal partitions constructed of 1/2" PT2E polypropylene (black in color). All swash partitions shall be so designed to allow for maximum water and air flow between compartments and are fully welded to each other as well as to the inside of the tank.

The passenger's side rear wall of the tank shall have a standard built in sight gauge 2" in width, natural in color, and 70% transparent.

The tank shall be equipped with a combination vent/overflow and manual fill tower. The fill tower shall be an 8" round by 6" high with a blue, molded cover. The cover shall be fastened to the tower with a tether to prevent loss. The tower shall be located in the rear passenger's side corner. There shall be a vent/overflow installed inside and to the extreme rear of the fill tower approximately 2" down from the top. This vent/overflow shall be schedule 40 polypropylene pipe with minimum ID of 3" and piped internally to exit out the right side tank wall.

The tank cover shall be constructed of 1/2" thick PT2E polypropylene, black in color, UV stabilized, and flush mounted. The cover shall incorporate as standard two (2) mounting blocks that shall be to accommodate two (2) each sliding nut fasteners. These mounting blocks shall be welded to the cover running crosswise.

The sump shall be milled into the tank floor and measure approximately 8" diameter and 1/2" deep. The sump shall not be visible from or protrude through the bottom of the tank.

There shall be three (3), standard tank connections located in the rear wall of the tank. One (1), 2" NPT female tank to pump suction fitting, one (1), 1" NPT female tank fill/recirculate fitting with flow deflector, and one (1), 3/4" NPT female drain opening.

### **TANK FLOOR PLATFORM BASE**

There shall be a full-width skid base manufactured of 3/4" PT2E polypropylene welded to the bottom of the tank. This base shall be 48" wide x 93" long and shall extend 31" past the tank in the rear to allow for pump mounting.

The pump mounting area shall be supported by 1/2" PT2E polypropylene gussets 19" high by 29" long. The gussets shall be equipped with 2" lifting holes to assist in lifting the unit. The base shall have a mounted tab at the front and two (2) 1/2" drilled holes at the rear of the platform to secure directly to a truck bed without the need for any skid framework underneath.

### **TANK DRAIN**

There shall be a 3/4" FNPT female tank drain located on the rear tank wall with a 3/4" stainless steel plug.

### **VISUAL WATER TANK SIGHT LEVEL GAUGE**

There shall be a standard built in visual sight gauge, natural in color, and 70% transparent located in the wall of the tank in clear view of the operator.

### **12-VOLT ELECTRICAL**

All electrical components of the unit shall be wired to a terminal stud block with high temperature, copper, multi-strand, crosslink-coated wire enclosed in a protective loom.

### **WORK LIGHT**

One (1), 12-Volt LED work light shall be mounted on the tank to light up the work area. An ON/OFF switch shall be located at the rear of the skid unit.

### **BASIC LIMITED WARRANTY**

Danko Emergency Equipment Company shall warrant to each original purchaser that the apparatus is free of defects in material and workmanship for a period of one (1) year.

### **STAINLESS STEEL PLUMBING WARRANTY**

Danko Emergency Equipment Company shall warrant to each original purchaser that the apparatus stainless steel plumbing shall be free of defects for a period of ten (10) years.

### **SHIPPING**

The skid unit shall be crated at the factory and shipped via freight to the specified purchaser's address.

### **ADDITIONAL BID SPECIFICATIONS**

**Operating and Maintenance Instructions:** Two (2) complete sets of operating and maintenance/repair manuals and parts lists shall be furnished at or before the time of delivery.

**Warranty:** The manufacturer's warranty for the complete unit shall be submitted in writing with the bid. The warranty shall provide for the replacement of all defective parts during the warranty period. Such replacement shall be performed at no cost to the City.