



**Invitation to Bid #24-BID-017  
Wise County, Texas**

**Bid Title:** Purchase of Truck with Roll- Off Hoist and Tarping System

**Sealed Bids Will Be Received Until:** 10:00 a.m. central time, Thursday, October 5, 2023

**Return Bids To:**

Wise County Asset Control Office  
400 W Walnut, Decatur, or  
P.O. Box 952, Decatur, TX 76234

All bids must be submitted in a sealed envelope on the enclosed bid form and received on or before the time specified above. The bid envelope must have a return address in the upper left hand corner and the bid name and number in the lower left hand corner.

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**Scope**

Wise County is now accepting formal sealed bids for a contract for a Truck with roll off hoist and tarping system for Public Works.

This contract may be canceled with 30 days written notification by either party to the other.

**Specifications**

It is the intent of these specifications to describe a truck with roll off hoist and tarping system suitable for use by the Public Works Department.

Any catalog, brand name, or manufacturer's reference used in describing an item is merely descriptive and not restrictive unless otherwise noted, and is used only to indicate type and quality of material. Bidders must state exactly what they intend to furnish. If bidder takes no exception to specifications or reference data, he will be required to furnish items as specified in the bid.

The vehicles must be 2022 or newer new truck.

These specifications are for vehicles with the specifications as outlined on the bid forms.

The bidder must respond to each individual item with a "check mark" if the specification is met.

All vehicles must be delivered on or before the delivery date quoted by the bidder.

## **Estimated Quantities**

Wise County may purchase one or more of these vehicles.

The County has included the option to purchase more than one vehicle, but may purchase only one vehicle at a time. Therefore, a date must be included on the bid for the length of time the bid will apply without change.

Wise County will in no way be bound to purchase any predetermined amounts under this contract. All purchases will be based on the county's actual needs.

## **General Contract Terms and Conditions**

The contract price for this service must include all ancillary costs associated with the service.

The bidder reserves the right to charge any price desired as long as it does not exceed the bid price.

All invoices will be paid on a net 30 basis. No late fees or interest charges are to be assessed against the county.

**Invoices must show the address and department where the service was required and the bid number. Each department/precinct must be invoiced separately.**

Invoices must be sent to:

Wise County Auditor's Office  
P.O. Box 899  
Decatur, TX 76234  
940-627-5744  
asstauditor@co.wise.tx.us

**A copy of the invoice must be sent to the Wise County Asset Control Office at P.O. Box 952, Decatur, Texas 76234 or via email to [asset@co.wise.tx.us](mailto:asset@co.wise.tx.us).**

**The bidder must deliver to the County Treasurer's Office, located at 207 N. Church St., Decatur, Texas, in a timely manner, the title or certificate of ownership (also referred to as an MSO), a Form 130-U entitled "Application for Texas Certificate of Title--Seller/Donor/Trader's Affidavit" with an odometer statement and inspection.**

The address on all of these forms should be as follows:

***Wise County, Texas***  
P.O. Box 554  
Decatur, Texas 76234

Delivery point will be Wise County Asset Control 400 W Walnut, Decatur, TX 76234.

Funds for payment on this contract have been provided through the Wise County budget approved by Commissioners' Court for this fiscal year only. State of Texas statutes prohibit the obligations and expenditure of public funds beyond the fiscal year for which a budget has been approved. Therefore, anticipated orders or other obligations that may arise past the end of the current Wise County fiscal year shall be subject to budget approval. The fiscal year for the County extends from October 1<sup>st</sup> of each calendar year to September 30<sup>th</sup> of the next calendar year.

The bidder must provide pricing (unit or lump sum) as requested on the bid form. Prices quoted shall remain firm for the period of the contract and shall include the cost of installation if required in the specifications, shipping, and delivery of item to the designated point unless pickup is required and stated in the bid and shall not include Federal or State of Texas sales, excise and use taxes.

The undersigned affirms they have familiarized themselves with the local conditions under which the work is to be performed and have satisfied themselves of matters that may be incidental to the work before submitting a bid.

Bidders must submit their bids on the attached forms and they must be originally signed.

Bids not submitted on these forms will be summarily disqualified. **No ring binders.**

**Faxed or emailed bids will not be accepted.**

By submitting and signing the attached bid forms, each bidder is indicating that he has read and understood the instructions, terms, conditions, specifications, and invitation to bid and agrees to comply with and be bound by its precepts. Submission of a bid form shall constitute an offer on such terms that shall remain open and irrevocable until such time as a bid submitted on same has been accepted by the Commissioners' Court of Wise County, Texas. Acceptance of same by the Court shall create a contract between the parties based upon the instructions, terms, conditions, specifications, invitation to bid, and the bid forms. Any additional terms and conditions submitted by bidders will be considered invalid. Only terms and conditions listed in the Wise County bid documents apply. Any changes to Wise County terms and conditions may result in disqualification of the bid.

**Award notice will include information on form 1295 disclosure that must be completed and returned prior to any bid award being considered final, contract being signed by Wise County, any Purchase Order being issued by Wise County, or any notice to proceed with work being issued by Wise County. Wise County cannot advise on the form 1295. If you have questions, the Texas Ethics Commission implemented the law and generated the form so we would suggest calling them at 512-463-5800 or <https://www.ethics.state.tx.us>.**

**By signing this document, your company will be providing the written verification if required by Texas Government Code Section 2270.002 that the company (1) does not boycott Israel; and (2) will not boycott Israel during the term of the contract.**

Continuing non-performance of the vendor in terms of specifications shall be basis for termination of the contract by Wise County. Wise County shall not pay for work, equipment, or supplies that are unsatisfactory. Vendors will be given a reasonable opportunity before termination to correct the deficiencies. However, this shall in no way be construed as negating the basis for non-performance termination.

A Conflict of Interest Questionnaire and explanation has been included with this bid packet. If you have any questions about compliance, please consult your own legal counsel. Compliance is the individual responsibility of each individual, business, or agent who is subject to the laws filing requirements. If you are required to file a Conflict of Interest Questionnaire, the original signed questionnaire should be filed with the County Clerk's Office. **Do not include this form with the bid packet. It will not be filed by Asset Control.**

Wise County Clerk  
P.O. Box 359  
200 N Trinity  
Decatur, TX 76234  
940-627-3351

The bid analysis will include compliance to bid specifications, past performance with vendor, warranty, delivery time, and the overall cost to Wise County. Wise County reserves the right to consider deviations from these specifications. All bids meeting the intent of this invitation to bid will be considered for award. Bidders taking exception to the specifications, or offering substitutions, shall state these exceptions in the section provided or by attachment as part of the bid. The absence of such a list shall indicate that the bidder has not taken exceptions and shall hold the bidder responsible to perform in strict accordance with the specifications of the invitation. Wise County Commissioners' Court reserves the right to accept any and all or none of the exception(s)/substitution(s) deemed to be in the best interest of the County.

Award, if any, will be made to the responsible bidder(s) submitting the lowest and/or best bid price(s) for the item(s) as specified and meeting all the requirements of the invitation to bid. All information required by the bid form must be furnished. To be determined will not be considered an answer. It should be understood by all bidders that Wise County reserves the right to award a contract to a qualified local bidder within three percent of the lowest bid. It should be understood by all bidders that Wise County reserves the right to reject bid submissions that do not meet the requirements of the invitation to bid and that do not contain all of the documentation detailed below.

1. Bid form completed in its entirety and originally signed
2. Specifications Checklist
3. Affidavit

Wise County reserves the right to accept and/or reject any and all bids or proposals for any reason whatsoever.

All bids that have been submitted shall be available and open for public inspection after the contract is awarded except for trade secrets and confidential information contained in the bid and identified as such.

Any and all terms and conditions offered by Wise County in this document or as part of individual purchase orders issued in connection to this agreement shall supersede any and all terms and conditions of the vendor and shall in fact govern the contract and agreement. This contract is governed by and construed in accordance with the laws of the State of Texas, and venue shall lie in Wise County, Texas.

Wise County reserves the right to waive any minor technicalities.

### **Additional Notice to Bidders**

By resolution passed on February 23, 2004, the Wise County Commissioners' Court reserves the right to refuse to consider any bid submitted by any person or entity that is currently indebted to Wise County.

### **Applicable Dates and Times**

The bids will be received in the Wise County Asset Control Office at 400 W Walnut in Decatur, Texas, until 10:00 a.m. central time, Thursday, October 5, 2023.

The Wise County Asset Control Office will date and time receive stamp all bids upon their receipt.

The County assumes no responsibility for the timely delivery of any bid by anyone or any entity.

Those bids that come in after the time set for bid opening will be summarily disqualified and will be left unopened unless it is necessary to open the bid envelope to return a bid bond or check.

No modifications may be made to bids after the time set for the bid opening. Bids may be withdrawn up to, but not after, the time set for bid opening.

The bids will be opened and publicly read in the County Asset Control Office at 10:00 a.m. central time, Thursday, October 5, 2023.

Bids will be considered for award in Wise County Commissioners' Court at the next regularly scheduled Commissioners' Court at the location posted on the agenda. All bidders are encouraged to be present at the bid opening and the bid awarding to defend and answer questions about their bid.

If due to inclement weather or any reason beyond our control the Asset Control Office is closed on the scheduled bid opening date or time, the bid opening date and time will be the same time on the first day the office is reopened for business. Should this be after the original Commissioners' Court date set for award, the award will be considered in the next scheduled Commissioners' Court after the opening.

Any explanation desired by a bidder regarding the meaning or interpretation of the invitation for bids, drawings, specifications, etc., must be requested in writing and with sufficient time allowed for a reply to reach bidders before the submission of their bids. Any interpretation made will be in the form of an addendum of the invitation for bids, drawings, specifications, etc., and will be furnished to all prospective bidders. Receipt of all addenda must be acknowledged by the bidder by signing and returning the addenda with the bid. All addenda will be bound with and made a part of the contract documents. Oral explanations or instructions given before the award of the contract will not be binding. Written requests shall be emailed to: Diana Alexander at [Diana.alexander@co.wise.tx.us](mailto:Diana.alexander@co.wise.tx.us).

## **Title**

The bid must be submitted in a sealed envelope with the following written on the outside lower left-hand corner of the envelope

### **Purchase of Truck with Roll Off Hoist and Tarping System, Bid #24-BID-017**

The bid envelope must also have the bidder's complete return address in the upper left-hand corner of the outside of the envelope.

**Wise County, Texas**  
**Purchase of Truck with Roll Off Hoist and Tarping System**  
**Bid #24-BID-017**

Bidder's Name: \_\_\_\_\_

Address: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Phone Number: ( ) \_\_\_\_\_ Fax Number: ( ) \_\_\_\_\_

Email Address: \_\_\_\_\_

Person to Contact: \_\_\_\_\_

**Base Purchase Price: \$ \_\_\_\_\_ Each**

Year/Make/Model \_\_\_\_\_

Estimated delivery date: \_\_\_\_\_

Time Price Guaranteed: \_\_\_\_\_ (months)

**Purchase Price must include any and all charges. Any extraneous fees or charges that will or may be invoiced to the County must be disclosed on this form. This includes, but is not limited to freight, fuel or travel surcharges, overtime rate, etc.**

Signature: \_\_\_\_\_

Typed Name and Title: \_\_\_\_\_

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

**Bid: Purchase of Truck with Roll Off Hoist and Tarping System, 24-BID-017**

State of Texas (

County of Wise ( **Affidavit**

**Before me**, the undersigned authority, a Notary Public in and for the State of Texas, on this day personally appeared \_\_\_\_\_ known to me to be the person whose name is subscribed to the following, who, after having first duly sworn, upon oath, did depose and say:

That the foregoing bid submitted by \_\_\_\_\_ hereinafter called "Bidder" is the duly authorized agent of said company and that the person signing said bid has been duly authorized to execute the same. Bidder affirms that they are duly authorized to execute this contract, that this company, corporation, firm, partnership or individual has not prepared this bid in collusion with any other Bidder, and that the contents of this bid as to prices, terms or conditions of said bid have not been communicated by the undersigned nor by any employee or agent to any other person engaged in this type of business prior to the official opening of this bid.

I am the affiant in the above-mentioned bid. I have personal knowledge of the facts contained in the foregoing statement and they are true and correct to the best of my knowledge and belief.

**Further Affiant Sayeth Naught.**

**Name and Address of Bidder:**

**Bidder:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Telephone:** \_\_\_\_\_

**Affiant signature:** \_\_\_\_\_

**Printed Name:** \_\_\_\_\_

**Title:** \_\_\_\_\_

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

Sworn to and Subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Notary Public in and for the State of Texas



**Truck with Roll Off Hoist and Tarping System  
Bid 24-BID-017**

**Truck Chassis Minimum Specifications:**

\_\_\_ 2022 or newer new truck

**Cab and Hood**

- \_\_\_ Conventional type cab with fiberglass tilting front hood
- \_\_\_ Galvanized steel cab shell with welded seams
- \_\_\_ Bug screen mounted in front of radiator
- \_\_\_ Halogen type headlights with replaceable bulbs
- \_\_\_ Air suspension type rear cab mounting
- \_\_\_ Integral heater and air conditioner combination unit with R134a refrigerant
- \_\_\_ Rubber floor mats
- \_\_\_ Gauges to include: speedometer w/odometer, tachometer w/hour meter, oil pressure, coolant temperature, volt meter, air pressure indicator, and fuel level
- \_\_\_ Safety tinted side and rear windows
- \_\_\_ Grab handles for cab access
- \_\_\_ Dual air horns
- \_\_\_ Padded interior door panels with a storage pouch mounted on driver's door
- \_\_\_ Heated West Coast style mirrors with convex mirrors mounted on mirror bracket below West Coast mirror.
- \_\_\_ AM/FM radio w/antenna and speakers and hands free phone/bluetooth
- \_\_\_ Mounting plate and binding posts on top of dash for two-way radio
- \_\_\_ Air suspension type drivers seat w/vinyl covering
- \_\_\_ Stationary passenger seat w/vinyl covering
- \_\_\_ Adjustable tilt and telescopic type steering column
- \_\_\_ Exterior sun visor
- \_\_\_ RH and LH interior sun visors
- \_\_\_ Intermittent windshield wipers
- \_\_\_ Paint fleet white

**Frame and Frame Equipment**

\_\_\_ C-Channel type frame rails with a 300mm x 90mm x 9.5mm cross section with an inside frame reinforcement

- \_\_\_ **Frame to be 120,000-psi yield strength with a RBM rating of 3,500,000 in lbs per rail**
- \_\_\_ **Cab to center of tandem axles to be 176” to 190” usable frame for installing the hoist and tarping system**
- \_\_\_ **Steel front bumper**
- \_\_\_ **Heavy duty type crossmembers**
- \_\_\_ **Towing devise mounted on front of frame**
- \_\_\_ **Dual steel fuel tanks with steps 110 gallon total capacity**

**Engine and Engine Equipment**

- \_\_\_ **Electronically controlled diesel injected with programmable features**
- \_\_\_ **Minimum 425 horsepower**
- \_\_\_ **1400 lb ft torque**
- \_\_\_ **18.0 CFM air compressor**
- \_\_\_ **Heavy duty radiator with a replaceable type coolant conditioner/filter**
- \_\_\_ **Engine block heater**
- \_\_\_ **Single or dual exhaust with a diesel particulate filter and side outlet type diffuser**
- \_\_\_ **Poly V-Belt with automatic tensioner**
- \_\_\_ **Engine Brake**

**Transmission, Clutch, and Drivelines**

- \_\_\_ **automatic transmission, Allison or equivalent**
- \_\_\_ **Minimum 1810 Series main driveline**
- \_\_\_ **Minimum 1710 series inter-axle driveline**

**Front Axle Equipment and Tires**

- \_\_\_ **18,000 lb capacity**
- \_\_\_ **Heavy duty front springs w/shock absorbers**
- \_\_\_ **16.5”x6” S-Cam type front brakes with automatic slack adjusters**
- \_\_\_ **Outboard mounted brake drums**
- \_\_\_ **Manufacturers hydraulic power steering**
- \_\_\_ **22.5x9.0 steel hub piloted 10 hole front wheels painted white**
- \_\_\_ **385/65R22.5 20 ply front tires**

### Rear Axle Equipment and Tires

- \_\_\_ Rear end gear ratio 370
- \_\_\_ 44,000 lb capacity
- \_\_\_ Dual reduction type gearing
- \_\_\_ Air controlled power divider lockout
- \_\_\_ Ratio to allow truck to run appx 65 MPH or greater
- \_\_\_ 16.5"x7" S-Cam type brakes with automatic slack adjusters
- \_\_\_ Outboard mounted brake drums
- \_\_\_ Four double diaphragm type 30 spring brake chambers
- \_\_\_ Heavy duty spring or spring and walking beam type suspension, four spring type suspension not acceptable
- \_\_\_ 8.25x22.5 steel hub piloted 10 hole rear wheels painted white
- \_\_\_ 11R22.5 14 ply tires with traction type tread design

### Air Brake System

- \_\_\_ Anti-lock brakes system
- \_\_\_ Dual air brake system with (2) dash mounted control valves-trailer supply & tractor-trailer park
- \_\_\_ Full trailer connection package with trailer supply and emergency hoses w/couplers and 7-way light cord extended to the rear of the frame, break away safety valve and hand control valve
- \_\_\_ Desiccant type air dryer with 12-volt heater
- \_\_\_ Manual drain valves with lanyard cable on all tanks

### Electrical

- \_\_\_ 12-volt negative ground system
- \_\_\_ 12-volt batteries with a minimum of 660 CCA each
- \_\_\_ 12-volt 100 amp alternator
- \_\_\_ 12-volt starter
- \_\_\_ Steel battery boxes with plastic battery box covers
- \_\_\_ Electrical circuits protected by circuit breakers
- \_\_\_ All lighting required by state and federal laws

### Safety Equipment

- \_\_\_ 5lb fire extinguisher mounted in cab for easy access
- \_\_\_ Triangular reflector kit

**Roll Off Hoist Minimum Specifications:**

**Tilt Frame Construction**

- \_\_\_\_\_ The tilt frame rail shall be constructed of 4"x8"x1/2" one-piece structural steel tube, the width shall be 35-1/2" O.D. and shall be designed to carry roll-off containers with rail widths of 37" I.D. straddle mount, the hoist frame shall carry a 22" container with no overhang
- \_\_\_\_\_ There shall be 5 rail rollers with bronze bushings on each rail, outside mounted, 4" O.D.x3" long for a total of 10 rail rollers
- \_\_\_\_\_ A stabilizer roller shall be provided at the rear most extremity of the tilt frame rails, the roller shall be 6-5/8" diameter, 25" wide and rotate on a 2" diameter cold roll steel shaft, the roller shall have bronze bushings and zerk fittings for lubrication
- \_\_\_\_\_ A body prop for maintenance of tilt hoist shall be provided, two total, one per side
- \_\_\_\_\_ The tilt frame shall be a self contained drop-on unit, containing its own sub frame constructed of 4"x3"x1/4" structural one piece steel tubing
- \_\_\_\_\_ The tilt angle of the frame must be at least 50 degrees from horizontal when the tilt frame rails are in the full raised position
- \_\_\_\_\_ The forward end of the tilt frame rail structure shall be equipped with a main cable sheave having a minimum diameter of 10", this sheave shall rotate on a 1018 CRS shaft with a minimum diameter of 2", Sheave shall be case hardened and shall be bronze bushed, and be provided with a zerk fitting for lubrication, each side of said sheaves shall be supported on 2 points.
- \_\_\_\_\_ Front container hold-downs shall be provided using minimum of 1-1/4" thick plate
- \_\_\_\_\_ The tilt frame rails are to have an automatic container locking safety latch that shall prevent rearward movement of container during transit, two total, one per side
- \_\_\_\_\_ All frame rail rollers shall have a minimum 1/2" plate support on both sides of roller shaft for supporting heavy container loads, these rollers shall be appx 4" diameter 4" wide with bronze bushing and rotate on a 2" cold roll (1018) shaft with recessed zerk fitting
- \_\_\_\_\_ Crossmembers shall be welded between frame rails as required for strength
- \_\_\_\_\_ Rear container locks shall be provided on both tilt frame rail members, construction to be ratchet type with 4" reinforced nylon strap and hook, two total, one per side
- \_\_\_\_\_ Steel covers on winch cylinders shall cover the top area of the extended cylinder rods to prevent debris from falling on them, covers shall be minimum 3/16" plate steel, welded construction
- \_\_\_\_\_ The main hinge of the tilt frame shall be of one piece cast steel construction, the tilt frame rails shall hinge on a 2" diameter cold roll C1018 steel shafting
- \_\_\_\_\_ The fenders shall be formed of a minimum 7 gauge steel with a formed edge mounted on rubber insulators
- \_\_\_\_\_ Rear ICC bumper with 4" x3" x5/16" tube, automatic folding type constantly under pressure to prevent vibration, bumper to fold up automatically without the use of chains or linkages, bumper cannot float free
- \_\_\_\_\_ Two 6 1/4" inside diameter 80" stroke cylinders with 4 3/4" diameter hard chrome rods shall be inboard mounted between the frame rails and shall be rated at 2500 PSI minimum capacity
- \_\_\_\_\_ The Reeving cylinders shall be equipped with an adjustable rod seal stuffing box

- \_\_\_ The Reeving cylinders shall move in guide rails on slide blocks
- \_\_\_ The Reeving shall be accomplished by winding the 7/8"x75' long, 6x37 domestic IWRC, EIPS steel wire rope cable over five 10' case hardened sheaves, the cable shall be supplied with a case steel end fitting with swage connections, complete with cast steel hook
- \_\_\_ A steel toolbox shall be provided and mounted on passenger side

### Hydraulic System

- \_\_\_ Generally describe this shall be all pumps, cylinders, valves, hosing, fittings, and reservoir as required for operation
- \_\_\_ Hydraulic power shall be by a heavy duty cab controlled air operated PTO, mounted to the chassis transmission and connected by a direct mount type hydraulic pump, a rear support bracket is to be installed on hydraulic pump
- \_\_\_ The pump shall be a continuous duty gear type with a capacity of no less than 27 GPM at 1200 RPM and operating at a pressure of 2100 PSI, pump shall have a 2 1/2" gear
- \_\_\_ The two spool control valve shall have a built in pressure relief valve, factory set and sealed at 2100 PSI, rates at 40 GPM
- \_\_\_ The inside controls for the spool valve shall be air operated and located inside the cab to the driver's right, a duplicate set shall be supplied street side adjacent to the driver's door
- \_\_\_ Lift of the tilt frame rails shall be by two hydraulic cylinders and that shall be not less than 6 1/4" inside diameter x 80" stroke with 4 3/4" diameter hard chrome rods, cylinder shall mount to pins with a minimum of 2 1/2" diameter (no exception), the lower shaft shall be spaced apart by 4" O.D. and 3 5/16" I.D. seamless steel tubing 35" long
- \_\_\_ The 60 gallon oil reservoir shall be constructed with a return line filter assembly with replaceable filter cartridges, the filter element shall be 25 micron minimum with a 15 PSI pressure bypass, the filler opening of the reservoir shall have a filter type breather cap 4" intake suction strainer, oil tank shall have a 4" cleanout port
- \_\_\_ All sub frame mounted hydraulic lines shall be schedule 80 A106 pipe, piping shall be bolted in place, not welded
- \_\_\_ Lines which cross under the chassis shall be pipe only
- \_\_\_ Rebuildable high pressure swivels shall be used at the hinge point of the hoist
- \_\_\_ The system shall be delivered to Wise County with hydraulic oil meeting the manufacturers requirements for proper long life operation

### Lighting

- \_\_\_ Turn signals, reflectors, reflective tape, running lights, back-up lights and alarm, also a body-up warning light installed in cab of truck , and all other accessories, as required by ICC and DOT-108 will be provided, wiring shall be factory manufactured plug in wiring harness

### Painting

- \_\_\_ Complete unit shall be cleaned with all weld shag removed, all surfaces to be thoroughly cleaned and primed with one coat of primer and two coats of DuPont Centari or equivalent paint

## Trailer Towing Package

\_\_\_ Full pup trailer towing package for pulling a wet type pup trailer

## Mounting

\_\_\_ The manufacturer or an authorized agent of the manufacturer shall do installation

\_\_\_ Mounting shall be to chassis and tilt frame manufacturers engineering specifications

## Tarping System Minimum Specifications:

### Framework

\_\_\_ Roll Rest-11 gauge C.R.S. fabrication that incorporates a windscreen to prevent “whipping” of the tarp, which results in longer tarp life

\_\_\_ Stationary Legs-to support roll rest 2 ½” square x ¼” wall steel tube, ¾” mounting plates on bottom of legs, installed on angle iron bolted to chassis

\_\_\_ Spring Loaded Roller Assembly-mounted between telescopic pivot arms, 3 ½” OD galvanized steel tube, 1” solid steel shaft, sealed ball bearings

\_\_\_ Telescopic Pivot Arms-“Low Arm”-hydraulically adjustable in length, 30” of adjustment, cylinder enclosed inside of base arm, Base arm-3”x2”x1/8” A500B steel tube, Low Arm Extension-1 ½”x2 ½”x1/8” A500B steel tube with fixed 60 degree angle

\_\_\_ Rack and Pinion Assemblies-fabricated weldment, Base Tube-2 ½” sq. x ¼” steel tube, Rack Gear- T1 abrasion resistant steel pinion gear moving parts are fully protected and guarded

\_\_\_ Chassis Mounting Tubes- fabricated weldment 2 ½” sq. x ¼” steel tube

### Hydraulics

\_\_\_ Flow Diverter- 1 GPM constant flow from control port side

\_\_\_ Cover Control Valve-Open center configuration, triple manually operated 4 way valves, adjustable pressure relief valve

\_\_\_ Flow Divider/Combiner- To keep arms synchronized front to rear as well as in and out, cartridge type 50/50 division of flow, accurate to + or - 4% of flow

\_\_\_ Pressure Relief Valve- Mounted upstream of flow diverter for protection of pump

\_\_\_ Arm Movement Cylinders (Rack and Pinion)- 2 ½” bore x 1 ¼” Rod x 16” stroke, double acting, chrome rod, welded and rebuildable

\_\_\_ Telescopic Arm Cylinders-4” Bore x ¾” Rod x30” Stroke, double acting, chromed rod, welded and rebuildable

\_\_\_ Gantry Lift Cylinder Adjustable Type- 2” bore x 1 ¼” rod x 36” stroke, double acting, chrome rod, welded and rebuildable

\_\_\_ Flow Controls- Adjustable and lockable to fine tune the covering and uncovering speed

\_\_\_ Hoses & Fittings- aero quip or approved equivalent

**Cover (Tarp)**

- \_\_\_\_\_ **Fabric- mesh with reinforcing front and rear, must be adjustable cradle**
- \_\_\_\_\_ **Construction-reinforced 6 feet on both ends, shock cords on both sides allow the extra wide (9 ½") tarp to be rolled up onto the roller assembly, reversible tarp can be turned end for end for longer life**

**Miscellaneous:**

- \_\_\_\_\_ **All brackets etc. are fabricated steel weldments**
- \_\_\_\_\_ **Paint black**
- \_\_\_\_\_ **Low oil auto kill**
- \_\_\_\_\_ **high temp auto kill**