

# INVITATION TO BID

## LIFT TRUCK

POSTED: MAY 3, 2019

Bid #: 19-12AA

BIDS DUE: TUESDAY, MAY 21, 2019 @ 2:00 PM



FLEET SERVICES  
4825 Mike Colalillo Drive  
Duluth, MN 55807-2731

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**Purchasing Division**  
City Hall, 411 W. 1st Street, Room 100  
Duluth, MN 55802-1189  
TEL. 218-730-5340  
[purchasing@duluthmn.gov](mailto:purchasing@duluthmn.gov)

## INVITATION TO BID LIFT TRUCK

**BID NUMBER: 19-12AA**

**BID OPENING: TUESDAY, MAY 21, 2019 AT 2:00 PM**

**PROJECT DESCRIPTION:** Crane truck, 2019 or newest model year, complete with 18 ton crane, service body and chassis, including all components, delivered as 100% complete, fully functional and operational. The vehicle is intended for use by the Utility Operations division.

**PREBID MEETING:** A pre-bid meeting will take place on Wednesday, May 8, 2019 at 2:00 p.m. at Fleet Services, located at 4825 Mike Colalillo Drive, Duluth, MN 55807. Interested bidders are encouraged to attend.

**QUESTIONS:** Please submit any questions regarding this project via e-mail to [purchasing@duluthmn.gov](mailto:purchasing@duluthmn.gov). Questions must be submitted no later than close of business on May 9<sup>th</sup>. Responses will be provided to all interested bidders as an addendum to this solicitation.

The selected contractor will be issued a purchase order upon City Council approval, if required.

## INSTRUCTIONS TO BIDDERS

By submitting a bid, Bidders are acknowledging that they have read the City of Duluth General Bid Specifications, which are included in this bid package.

Sealed bids must be received in Purchasing before 2:00 PM local time on the bid opening date specified above. The City Purchasing Agent or her designee will conduct a public bid opening in Room 100 immediately following receipt of the bids.

No alternatives to the specification will be considered unless specifically requested.

The City of Duluth reserves the right to split the award where there is a substantial savings to the City, to waive informalities and to reject any and all bids.

The City of Duluth's standard payment terms are net 30.

**Acknowledgment of Addendum** – any changes to this solicitation will be announced via Addendum. Bidders must indicate that they have reviewed any addendum(s) by initialing and dating on the bid form where indicated. Failure to acknowledge addendum(s) may result in your bid being deemed non-responsive.

The City of Duluth is an Equal Opportunity Employer. Contractor shall comply with all applicable Equal Employment Opportunity laws and regulations.

CITY OF DULUTH

Amanda Ashbach  
Purchasing Agent



## GENERAL BID SPECIFICATIONS

Purchasing Division  
120 City Hall, 411 W. 1st Street  
Duluth, MN 55802-1189  
TEL. 218-730-5340  
purchasing@duluthmn.gov

1. General. This document covers bids requested by the City of Duluth ("City"), including those requested on behalf of its Agents and Authorities. Each authority may issue their own purchase order or contract and will be responsible for it. The City of Duluth Authorities are as follows:

- a. Duluth Airport Authority
- b. Spirit Mountain Recreational Area Authority
- c. Duluth Entertainment and Convention Center
- d. Duluth Transit Authority
- e. Duluth Economic Development Authority
- f. Duluth Housing and Redevelopment Authority

2. Investigation by Bidders. Bidders are responsible for thoroughly reading and understanding the information, instructions, and specifications contained in this Invitation for Bids, and for investigating the site conditions at the Project location(s), if applicable. At the time of the opening of bids, each bidder will be presumed to have read and to be thoroughly familiar with the plans, specifications and contract documents (including all addenda). The failure or omission of any bidder to examine any form, instrument, or document shall in no way relieve the bidder from any obligation in respect to their bid.

3. Bidder Questions. Responses to general questions regarding the Invitation for Bids may be made at the discretion of the City. Every request for such interpretation should be in writing and delivered via e-mail or postal mail to the Purchasing Division before the deadline indicated on the Invitation for Bids, or if no deadline is specified, at least five (5) days prior to the scheduled bid opening. Responses will be issued in writing in the form of an Addenda or e-mail to prospective bidders.

4. Changes, Corrections & Withdrawal of Bids. Erasures or other changes to the bid must be initialed and dated, however no special conditions shall be made or included on the bid form by the bidder.

Bidders may make requests to withdraw/replace their bids by notifying the Purchasing Division in writing prior to the bid opening.

5. Unit Pricing. If the total bid price is based on unit pricing, the City will verify the extended bid price for each item (obtained by multiplying the unit bid price by the bid item quantity). If any item is incorrectly calculated, the City will use the unit bid price to recalculate the extended item price and the total bid price.

6. Sales Tax. The City has a sales tax exemption certificate, which will be provided upon request.

7. Bid Submission. All bids must be complete, signed, and transmitted in a sealed envelope plainly marked with the bid number, subject matter, and opening date.

Bids may be mailed to the Purchasing Office, City Hall, 411 West 1st Street, Room 120, Duluth, MN 55802 or dropped off in person at the same address. Bids must be received by Purchasing before 2:00 PM local time on the date specified. Bids will not be accepted via e-mail unless specifically stated in the Invitation for Bids.

8. Non-Collusion Clause. By submitting a bid, the bidder, their agent and/or employee(s) hereby affirm that the attached bid or bids have been arrived at by the bidder independently and have been submitted without collusion with, and without agreement, understanding or planned common course of action with any other vendor of materials, supplies, equipment or services described in the Invitation for Bids, designed to limit independent bidding or competition

9. Award. Award, if made, will be to the responsible bidder submitting the lowest bid which complies with the conditions of the Invitation for Bids and specifications. A bid summary will be posted on the City website immediately following the bid opening. Awards for construction services and parts /supplies over \$100,000 must be approved by City Council.

10. Bidder Qualifications. Per Sec 41.23(e) of Duluth City Code, price may not be the only consideration for award. The City will make such investigations as deemed necessary to determine the ability, capacity

and skill of the bidder to perform the work and perform it in the time specified without delay or interference, the reputation and experience of the bidder, the quality of the bidder's performance of previous contracts or services, and the sufficiency of the financial resources, equipment available and ability of the bidder to perform the contract. Bidders shall furnish to the City all such information and data for this purpose, when requested.

Minnesota law requires that, in order to transact business in the State, including submitting a response to this request for bids/proposals, a corporate entity of any kind must either be organized under Minnesota law or have a Certificate of Authority from the Minnesota Secretary of State to do business in Minnesota (M.S. 303.03) By submitting this bid/proposal as a corporation, you are certifying that the responding corporation complies with this requirement.

11. Bid Opening. The City Purchasing Agent or her designee will conduct a public bid opening in Room 120 immediately following receipt of the bids. Results will be posted online at <http://www.duluthmn.gov/purchasing/bids-request-for-proposals/> once all bids have been reviewed.

12. Rejection of Bids. The City of Duluth reserves the right to reject any and all bids and to waive any informalities or irregularities in bids received whenever such rejection or waiver is in its best interests.

The City reserves the right to reject any bid if the evidence obtained by the City through such investigation fails to satisfy the City that the bidder is properly qualified to carry out the obligations of the contract and to complete the work as required by the plans and specifications.

13. Liquidated Damages for Failure to Enter into Contract. The successful bidder, upon their failure or refusal to accept a purchase order or execute and deliver the contract, proof of insurance and bonds required within 10 days after receipt of a notice of the acceptance of their bid, shall forfeit to the City, as liquidated damages for such failure or refusal, the security deposited with their bid (if required).

14. Equal Employment Opportunity. Contractor will be required to comply with all applicable Equal Employment Opportunity (EEO) laws and regulations. Affirmative action must be taken to insure that the employees and applicants for employment are not discriminated against because of their race, color, creed, sex or national origin. The City of Duluth is an equal opportunity employer.

15. Quantities. The City reserves the right to increase or decrease the quantities of items within reason, unless otherwise noted.

16. Prevailing Wages. Per Sec 2-26 of Duluth City Code, payment of not less than the prevailing wage and salary rates specified in the contract documents and the conditions of employment with respect to certain categories and classifications of employees is required for all "Public Works" type projects estimated to exceed \$2,000. This does not apply to off-site production and manufacturing of parts and supplies.

17. Validity of Bids. All bids must remain firm for 60 days from the date of bid opening, unless another period is noted in bid documents or if an extension is agreed upon, in writing prior to the end of the 60-day period.

18. Insurance. All vendors doing work on City property, except vendors making routine deliveries, shall submit an insurance certificate verifying insurance coverage as per current city requirements.

19. Reports. Contractors will be required to provide all data required by the city, state or federal funding source(s) for reporting purposes; including, but not limited to job creation and retention data, itemized invoices, payroll records, certifications and licenses.

**BID FORM**  
**BID # 19-12AA**  
**LIFT TRUCK**

ITEM	PRICE
Complete lift truck, including 18 ton crane, service body and chassis, all components installed, and delivered 100% complete and operational.	\$

Specify Model Year of Vehicle: \_\_\_\_\_

\_\_\_\_\_  
TOTAL PRICE IN WRITING

Bid price must be the full price for the vehicle, including delivery and any other costs. Discounts for any pre-payment options must be provided separately.

**ACKNOWLEDGMENT OF ADDENDA**

ADDENDUM #	INITIAL/DATE
ADDENDUM #	INITIAL/DATE

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

Name/Title \_\_\_\_\_

Company Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Tel. \_\_\_\_\_ E-Mail \_\_\_\_\_

If your organization is certified as a Disadvantaged Business Enterprise, please check here: ☐

CRANE	COMPLIES?
Overall Max Height 13 foot	<hr/>
Maximum Lifting Capacity: 18 ton (16.3 metric ton)	<hr/>
Boom: 70 foot (21.3 m), 3-Section Proportional	<hr/>
Rotation 370 degrees non-continuous, front outrigger required	<hr/>
Sheave Height: 80 foot (24.4 m) on base boom	<hr/>
LMAP (Load Moment & Area Protection) System: Hirschmann or equivalent system that includes Rated Capacity Limiter and Working Area Definition Audible Alarm	<hr/>
Set-Points. Includes boom angle, length and rotational position.	<hr/>
Winch: Single speed with burst of speed with line tensioner, 12,000 pound (5,443 kg) line pull on bare or grooved drum, mounted at base of boom and 3rd wrap indicator	<hr/>
Rotation Resistant Wire rope 240' X 9/16 diameter	<hr/>
Lower Winch Control: Located at hook stowage point for ease of unit setup	<hr/>
Winch Drum Rotation Indicator: Provides tactile and visual indication to operator of which motion, speed, and direction.	<hr/>
Anti-Two Block Device	<hr/>
Hydraulic System: Hydraulic pilot operated control valves at the control station	<hr/>
Control Station(s): Curbside and street side walk-through control stations with grab handles for bed access	<hr/>
Foot controls at stand up control stations	<hr/>
Operator Controls: Emergency stop, engine start/stop, and crane/outrigger mode switches	<hr/>
Wireless Remote Control for crane	<hr/>
Outrigger Boom Interlock System to prevent operator from using unit until all outriggers are deployed	<hr/>
Outrigger Motion Alarm that provides an audible alarm when any of the outriggers are in motion	<hr/>

Primary and secondary outriggers are to be properly sized and positioned to meet mobile crane standards

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Outrigger Controls are to be electric over hydraulic controls located at each rear corner of tail shelf providing a line-of-sight from the controls to the outrigger contact zone

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Front bumper outrigger, w/electric control on outrigger, required for 360 degree work capacity

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Paint: Manufactures standard paint or power coating process, Manufactures standard color.

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Unit must comply with ASME B30.5 Mobile Crane Standard

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Manuals: Two (2) Operator's and two (2) Maintenance/Parts manuals

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Basic Operation Videos: DVDs for Crane

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## Unit & Hydraulic Acc.

Load Ball, Swivel, For 9/16" winch rope, cab mounted load ball strap behind cab, and tie down points

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Air Shift PTO to be mounted to the transmission

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HVI-22 Hydraulic Oil (Standard)

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Hydraulic pump is to be properly sized to meet all the boom manufactures requirements.

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Hot shift PTO for automatic transmission

50 to 70 gallon hydraulic tank

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All hoses and lines are to be properly routed and protected from chafing

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## Body

Flat Bed, steel construction, minimum 19 feet long x 96" Wide w/stake pockets

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14" side boards (hinged preferred)

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## Body and Chassis Accessories

Underride protection Rear bumper

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Flatbed Access Ladder from Ground with Grab Handles - Installed Curbside Rear of Flatbed

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Standard Boom Rest, removable, installed behind cab

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Two Outrigger Pad Holder, 25x25x4, Steel, For Single 24x24x3 Outrigger Pad and Smaller Chain and Hasp Retainer CS under flatbed

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One Outrigger Pad Holder, 25x25x8.75, Steel, For Multiple 24x24x3 Outrigger Pads and Smaller, Chain and Hasp Retainer SS under flatbed; to hold 3 OR pads

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Standard Mud Flap Installation, installed behind rear wheels

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One Pair Wheel Chocks, Rubber with Metal Hairpin Style Handle, 9.75" L X 7.75" W X 5.00" H

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Wheel Chock Holders (Pair) to be installed Under Flatbed

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Post style grab handles at side access

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Five Wood Outrigger Pad, 24" x 24" x 2.5", with Rope Handle

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Triangular Reflector Kit, Installed

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5 LB. Fire Extinguisher with Light Duty Bracket, Installed in side cab

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## Truck Chassis General

6X4 tandem axle regular cab conventional chassis

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171 Clear CA

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Set back axle - truck

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Expected front axle(s) load: 14600.0 lbs.

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Expected rear drive axle(s) load: 40000.0 lbs.

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Expected gross vehicle weight capacity: 54600.0 lbs.

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Minimum 330 HP @ 2000 rpm, 1000 Lb./ft. @ 1400 rpm

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65 mph road speed limit

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Cruise control speed limit same as road speed limit

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PTO mode engine rpm limit - 1100 rpm

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PTO mode brake override - service brake applied

PTO mode clutch override - clutch enabled

PTO rpm with cruise set switch - 700 rpm

PTO rpm with cruise resume switch - 800 rpm

PTO mode cancel vehicle speed - 5 mph

PTO governor ramp rate - 250 rpm per second

PTO minimum rpm - 700

Minimum 12v 160 amp alternator with remote battery volt sense

(2) Group 31, 12 volt maintenance free 1900 CCA

Battery box frame mounted

Standard battery jumpers

Dual Tone Back-Up with Outrigger Motion Alarm

## Power Train

Allison 3500 series automatic transmission or equivalent (left and right side PTO openings)

Electronic engine integral shutdown protection system

Engine or exhaust brake integral with variable geometry turbo with on/off dash switch

Vertical tailpipe

Engine after treatment device, automatic over the road regeneration and dash mounted regeneration request switch

Regen inhibit speed threshold - 5 mph

Maximum 10 ' 06" exhaust system height (right horizontal under cab vertical)

Minimum 6 gallon diesel exhaust fluid tank

Stainless steel after treatment device/muffler/tailpipe shield

Automatic fan control without dash switch, non-engine mounted

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Spin on fuel filter combination full flow/bypass oil filter

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Antifreeze to -34 degrees, ethylene glycol pre-charged SCA heavy duty coolant

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Gates blue stripe coolant hoses or equivalent

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Constant tension hose clamps for coolant hoses

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Radiator drain valve

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Lower radiator guard

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1000 watt/115 volt block heater

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Engine heater receptacle mounted under lh door

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Electric grid air intake warmer

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## Front Axle

Drop single front axle

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Non-asbestos front brake lining

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Cast iron front brake drums

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Vented front hub caps with window, center and side plugs - oil

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Automatic front slack adjusters

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Power steering

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Synthetic 75w-90 front axle lube

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14,600# flat leaf front suspension

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Front shock absorbers

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Rear Axle

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40,000 lb. Tandem rear axle

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Driver controlled traction differential - both tandem rear axles

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(1) interaxle lock valve, (1) driver controlled differential lock forward-rear and rear-rear axle valve

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Blinking lamp with each mode switch, interaxle unlock default with ignition off	_____
Blinking lamp with each mode switch, differential unlock with ignition off, active <5 mph	_____
Non-asbestos rear brake lining	_____
Brake cams and chambers on forward side of drive axle(s)	_____
Cast iron rear brake drums	_____
Drive axles spring parking chambers	_____
Automatic rear slack adjusters	_____
40,000# rear spring suspension	_____
54 inch axle spacing	_____
Rear shock absorbers - two axles	_____
<b>Brakes</b>	
Minimum 18 cfm air compressor with internal safety valve	_____
Standard mechanical air compressor governor	_____
Air compressor discharge line	_____
Air brake without traction control	_____
Reinforced nylon, fabric braid and wire braid chassis air lines	_____
Standard parking brake hose and standard brake system valves	_____
Standard air system pressure protection system	_____
Relay valve with 5-8 psi crack pressure, no rear proportioning valve	_____
Air dryer frame mounted	_____
Clear frame rails from back of cab to front rear suspension bracket, both rails outboard	_____
Pull cable on wet tank, petcock drain valves on all other air tanks	_____

## Wheel Base & Frame

230 to 245 inch wheelbase

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Frame RBM, ca and dimensions must meet the requirements of the boom manufacture

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## Chassis Equipment

Three-piece 14 inch painted steel bumper with collapsible ends, spaced 3 inches forward

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Front tow hooks - frame mounted

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Bumper mounting for single license plate

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Fender and front of hood mounted front mud flaps

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## Fuel system

Minimum 50 gallon aluminum fuel tank

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Fuel filter/water separator with heated bowl and primer pump

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## Tires

Goodyear G288 MSA or approved equivalent front tires

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Goodyear G622 RSD or approved equivalent rear tires

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## Cab Exterior

Air cab mounts

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Fiberglass hood

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Air horn under deck

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Dual electric horns

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Door locks and ignition switch keyed the same

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Rear license plate mount end of frame

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High-Viz Lighting and reflectors that comply with FMVSS #108 Lighting Complete LED set including reverse lighting

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Work lights on bed and control surfaces

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Dual West Coast heated remote control power mirrors	<hr/>
102 inch equipment width	<hr/>
Left and Right 8 inch molded-in color convex mirrors mounted under primary mirrors	<hr/>
Standard side/rear reflectors	<hr/>
Tinted rear window	<hr/>
Tinted door glass tinted non-operating wing windows	<hr/>
Manual door window regulators	<hr/>
Tinted windshield	<hr/>
Minimum 1 gallon windshield washer reservoir	<hr/>
Cab Exterior Color: WHITE	<hr/>
<b>Cab interior</b>	
Vinyl interior	<hr/>
Black mats with single insulation	<hr/>
Dash mounted power outlet	<hr/>
Forward roof mounted console with upper storage compartments	<hr/>
Console/dash mounted accessory switches for lighting etc.	<hr/>
In dash storage bin	<hr/>
Heater, defroster and air conditioner	<hr/>
Standard insulation	<hr/>
Solid-state circuit protection and fuses	<hr/>
12v negative ground electrical system	<hr/>
Dome door activated left and right, dual reading lights, forward cab roof	<hr/>
Cab door latches with manual door locks	<hr/>
High back air suspension driver seat with fore and aft adjustment	<hr/>

High back air suspension passenger seat	_____
Integral door panel arm rest	_____
3 point driver and passenger seat belts	_____
Fixed steering column	_____
Driver and passenger interior sun visors	_____

## Instruments & Controls

Engine remote interface with park brake interlock	_____
Electronic cruise control	_____
PTO Hour Meter	_____
Diagnostic interface connector, 9 pin, SAE j1939, located below dash	_____
Engine remote interface connector at back of cab	_____
Am/FM/ radio with CD player, Bluetooth and microphone with two Radio speakers in cab	_____
Am/FM antenna mounted on the cab.	_____
Speedometer	_____
Engine coolant temperature gauge	_____
Engine oil pressure gauge	_____
Fuel gauge	_____
Low air pressure indicator light and audible alarm	_____
Primary and secondary air pressure gauges	_____
Intake mounted air restriction indicator	_____
Trailer hand control brake valve	_____
Single electric windshield wiper motor with delay	_____
Two valve parking brake system with warning indicator	_____

Self-canceling turn signal switch with dimmer, washer/wiper and hazard in handle

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Integral electronic turn signal flasher with hazard lamps overriding stop lamps

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**Paint**

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Paint: cab one solid color: white

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Chassis black paint

Wheels/rims manufactures standard color

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Please include a cut-sheet and/or catalog of the crane you are proposing with your bid.

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