

INVITATION TO BID

Bucket Truck

POSTED: FEBRUARY 13, 2018

Bid #: 18-0153 REBID

BIDS DUE: FRIDAY, FEBRUARY 23, 2018 @ 2:00 PM



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

TABLE OF CONTENTS

- INVITATION TO BID & INSTRUCTIONS TO BIDDERS
- BID FORM
- CITY OF DULUTH GENERAL BID SPECIFICATIONS
- REQUIREMENTS CHECKLIST
- DRAWINGS



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

INVITATION TO BID BUCKET TRUCK

BID NUMBER: 18-0153 REBID

BID OPENING: FRIDAY, FEBRUARY 23, 2018 AT 2:00 PM

PROJECT DESCRIPTION: Bucket truck, 2018 or newest model year, complete with telescopic aerial device, service body and chassis, including all components, delivered as 100% complete, fully functional and operational. The vehicle is intended for use by the Traffic Operations division.

QUESTIONS: Please submit any questions regarding this project via e-mail to purchasing@duluthmn.gov. 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

BID FORM
BID # 18-0153 REBID
BUCKET TRUCK

ITEM	PRICE
Complete bucket truck, including telescopic aerial device, 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: ☐



GENERAL BID SPECIFICATIONS

Purchasing Division
100 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 100, 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 100 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.

City of Duluth

QUOTE REQUEST FOR CITY OF DULUTH TO INCLUDE TELESCOPIC AERIAL DEVICE, SERVICE BODY AND CHASSIS. ONE PRICE TO INCLUDE ALL COMPONENTS AND DELIVERED AS 100% COMPLETED, FULLY FUNCTIONAL, AND OPERATIONAL UNIT UPON DELIVERY.

One (1) Telescopic Aerial Device to include the following:

1. 44 foot minimum working height.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

2. 39 foot minimum ground clearance (ground to bottom of bucket).

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

3. 29'7" minimum horizontal reach at 16.5' high elevation

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

4. Standard platform capacity 350 lbs minimum.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

5. Hydraulic bucket rotator offering 180 degrees articulation, even with the jib in the working position.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

6. Engine start/stop from bucket and lower controls within the C-2 compartment.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

7. Continuous rotation

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

8. Minimum six (6) gallons per minute open center hydraulic system.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

9. Side mounted telescopic upper boom for low stowed bucket fiberglass inner boom.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

10. Fiberglass lower boom insert, providing 12” insulation gap and including accommodations to bridge insulation gap for testing per ANSI A92.2-1990 or current standard.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

11. Inner boom finished with white urethane paint over a white gelcoat.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

12. Non-lube bearings used throughout.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

13. One set of hydraulic tool outlets at bucket with couplers.(Parker FF series)

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

14. Integral hydraulic oil reservoir with dual sight gauges and 17-gallon minimum capacity.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

15. Platform – minimum 36” x 60” inside diameter with 24” door. Constructed of 1 1/2” aluminum pipe schedule 40 bent at 6” radius for corner strength. Floor is aluminum diamond plate 3/16” with 4” kick plate.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

16. 180 degree basket rotation, from left side of boom to right side.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

17. Master/slave hydraulic leveling with upper control to tilt for clean-out or rescue.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

18. Lift eye on lower boom

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

19. Upper boom storage cradle with overcenter type tie down clamp.- Cradle to have a padded guide.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

20. White enamel paint.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

21. Two (2) operator/service manuals.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

22. ANSI A92.2-1990 or current data plate.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

23. Single lever control including safety trigger, emergency stop/dump valve.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

24. A-frame outriggers with control valves and hydraulic rotary 3-way selector valve in tailshelf..

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

25. H- frame outriggers at the rear-curbside to be behind rear compartment and street side to be behind the horizontal compartment ahead of the basket with hydraulic control valves in tailshelf (see print.)

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

26. Momentary switch to control the Emergency_12 volt DC hydraulic system, with control from basket & lower controls within the C-2 compartment.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

27. Manual throttle control in C-2 compartment and on truck dash.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

28. Jib Pole, socket and winch package for minimum 500-lbs. lift capacity.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

29. Jib to provide ample clearance for the basket to pass completely under it, from one side of the boom to the other side.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

30. Keep curbside of cargo bed as free as possible of equipment.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

31. Jib to be easily removable when not needed. (Parker FF series couplers)

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

32. Manual or hydraulic jib articulation (tilt) to be minimum 50 degrees with 36" manual extension.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

33. 65 feet minimum of ½" nylon rope with safety hook.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

34. 2 - 6 GPM minimum pumps and PTO's to fit transmission. Size pumps to properly run all equipment.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

35. Coil spring type bucket support/rest to be removable.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

36. Easily removable cradle for large pole transportation (see print).

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

37. Easily removable rear bumper extension for receiver hitch.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

38. Vinyl bucket and control cover.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

39. Mount full pressure valve bank in the inside of C-2 compartment to control the winch up and down, rotation, lower boom, outer boom, inner boom, upper / lower control selector.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

40. Place "Power Take Off" switch inside cab. Hydraulic to both the unit and the crane to come on with this one switch.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

One (1) Brand FX Fiberglass Service Body Model BFXB-84 LS (or approved equal) to include these standard features:

41. 132" long x 42" high x 94" wide, with 20" deep compartments.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

42. Side packs constructed of molded, coremat and klegecell reinforced polyester resin.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

43. Doors constructed of molded, klegecell reinforced, polyester resin with built in fiberglass truss to prevent warpage.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

44. Stainless steel recessed rotary slam latches (keyed alike).

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

45. Heavy-duty automotive grade closed cell weather-stripping.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

46. Removable wheel well panels.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

47. Stainless steel heavy duty hinges.

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

48. Stainless steel bolts, lock nuts and washers throughout.

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

49. Matching color non-skid surface incorporated with compartment tops.

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

50. Plastic coated, removable steel cable restraints on doors.

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

51. Recessed tail and back-up lights (shock mounted) (LED).

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

52. Recessed shock mounted clearance lights. (LED)

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

53. License plate light with license plate mounting studs.

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

54. Aluminum diamond brite plate floor with 4" kick panels along cargo walls.

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

55. 5" minimum structural steel sub-frame (longitudinal and cross members meshed integrally).

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

56. 3/16" smooth aluminum front dash plate.

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

57. All steel is metal etched, primed and painted.

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

58. Permanent Bright "Max Guard" (**high performance**) gelcoat (Oxford White).

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

59. Black poly recessed fuel tank filler(s).

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

60. Aluminum diamond brite rock guards at front of body.

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

61. Protective loom for wiring.

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

62. Aluminum diamond plate tailshelf with recessed walk up on curbside.

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

63. Aluminum, pool type grab rails - 30" tall curb side and 30" tall streetside (2-total see print).

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

64. Recessed walk-up cargo access-curb side with 18" minimum wide gripstrut cable step (tool circuit behind curb side steps with Parker FF couplers).

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

65. Install gripstrut step on street side and curbside per print with a chain or cable hung step below skirt, and maintain 14" road clearance.

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

66. Four (4) aluminum jack pad holders. 2-each side (see print).

Initial if requirement is met _____ Initial if requirement is not met _____

If not met, Specify difference _____

67. Four (4) aluminum jack pads.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

68. Electronic back-up alarm.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

69. ECCO model 7970A LED dual amber beacon mounted street side on aluminum pedestal.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

70. Install twenty (20) amber LED flashers per print (all flashers and beacons to be on a common switch).

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

71. Rear mud flaps.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

72. All electrical functions are mounted on a common switch panel with illuminated and labeled rocker switches in the cab.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

73. 2" Pintle/Ball hitch mounted into a receiver tube.(removable type)

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

74. Safety chain rings.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

75. Wheel chock holders-2 in curb side fender panel and 2 per print on streetside.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

76. Four (4) Highway Sur-grip wheel chocks with handles and teeth.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

77. Install one (1), hard wired joystick, dash mount remote, LED Go-lite #30204 on passenger side of hood.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

78. Triangle/Flare kit-mounted behind cab seat.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

79. 5# ABC fire extinguisher and clamp bracket mounted on jack leg housing in S1 compartment.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

80. Tool circuit in curb side step area.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

81. Add three (3) pockets on rear deck tailshelf for removable implements. (Refer to Print)

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

82. Cover all hydraulic hoses in cargo area with aluminum plate. (i.e. outriggers and generator).

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

83. Mount a model Vanair Xcite 4KW (or approved equal to supply 30 amps at 110 volts) (factory wired for 110 volt only) hydraulic driven generator on the roadside cargo body above the S1 compartment.

Mount the hydraulic reservoir in a protected and guarded area along side the pedestal behind the cab and plumbed so that all three (3) devices can be operated simultaneously.(need 30 amps at 110 volt).

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

84. Install the power cord from the generator to the S1 compartment.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

85. Install a steel protective device around the hydraulic generator.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

86. Place On/Off switch for the hydraulic generator inside of cab.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

87. Have all exposed electrical connections heat shrunk and sealed.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

88. If needed, Install an 8/4 type W power cord continuous and unspliced between compartments S1 and C2.

- a. The City of Duluth will supply the cord to the builder. Allow 5' of cable inside of each compartment when measuring. The City of Duluth will furnish and install the service panel in S1 and the sub-panel in C2 after the truck is delivered to the CITY OF DULUTH.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

89. Build up springs on rear axle for crane.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

90. Furnish and install a 16,000 ft lb Liftmoore Model no. 1640XP-20 crane (or approved equal) to include boom storage cradle, proportional hydraulic control, control pendant, radio remote control, hydraulic extension and rotation.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

91. Install rope lighting on two (2) sides and on top of each compartment all on a common switch, install the switch inside of the cab.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

92. Install a warning light in a prominent position of the dash to indicate if the lower boom is not fully lowered.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

93. Provide an electrical one-line diagram for the ignition safety circuit.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

94. Provide a drawing showing physical locations of any sensors, relays, limit switches, etc... for the ignition safety circuit.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

95. The unit, crane and hydraulic generator must all be fully functional simultaneously.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

INDIVIDUALIZED COMPARTMENTATION

CURB SIDE

C1 - Two (2) fiberglass adjustable shelves

C2 - Six place hydraulic valve bank, generator panel gauges, throttle selector switch, engine start/stop selector switch, emergency power momentary selector switch and power cord from S1 compartment.

C3 - 18-drawer small parts cabinet mounted tight to the rear and one side of the compartment.

C4 - Reinforced crane structure w/20,000 ft lb capacity.

STREET SIDE

S1 - Two (2) fiberglass adjustable shelves.

S2 - Six (6) swivel/locking hooks (1-4-1).

S3 - Vacant

S4 - Delete for basket storage and extend floor.

CITY OF DULUTH

Minimum Chassis Specifications:

96. M2 106 Freightliner Chassis

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

97. 84" C/A – 158" W/B or size to accommodate all add on equipment.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

98. Minimum 19,500lb GVWR, upsize if needed to accommodate all add on equipment.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

99. 7,000 lb front axle with stabilizer bar or upsize if needed to accommodate all add on equipment

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

100. 13,500 lb rear axle, upsize if needed to accommodate all add on equipment, with limit slip

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

101. 6-speed auto transmission with PTO provisions for 2 pumps

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

102. Power steering

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

103. Trailer tow mirrors (adjustable telescopic)

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

104. 40 gallon minimum fuel capacity

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

105. Minimum 300 HP diesel engine with 660 lb ft torque.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

106. Speed control/tilt steering wheel

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

107. Air conditioning

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

108. Six (6) aggressive tread tires

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

109. 4.88 rear ratio

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

110. Two (2) cab entry steps

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

111. Cloth high back driver seat and two (2) man passenger seat

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

112. Electric Brake Control Accommodation Package

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

113. Electric Brake Controller

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

114. Front tow hooks

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

115. AM/FM radio

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

116. Cigar Lighter

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

117. Dual cup holders

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

118. Hydro boost brakes

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

119. Drivers and passenger air bags

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

120. 2 speed wipers/washers (intermittent)

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

121. 157 amp alternator minimum.

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

122. Minimum two (2) MF 1300 CCA batteries mounted under cab

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

123. Winter white paint with clear coat finish

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

124. Argent front bumper

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

125. Upfitter switches

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

126. Aggressive tire tread in rear

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

127. Body builder wiring

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

128. Power windows and locks

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

129. Black breakaway heated mirrors with convex both sides

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

130. Throttle control

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

131. Engine throttle control

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

132. Engine remote start/stop

Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

133. Exhaust to street side

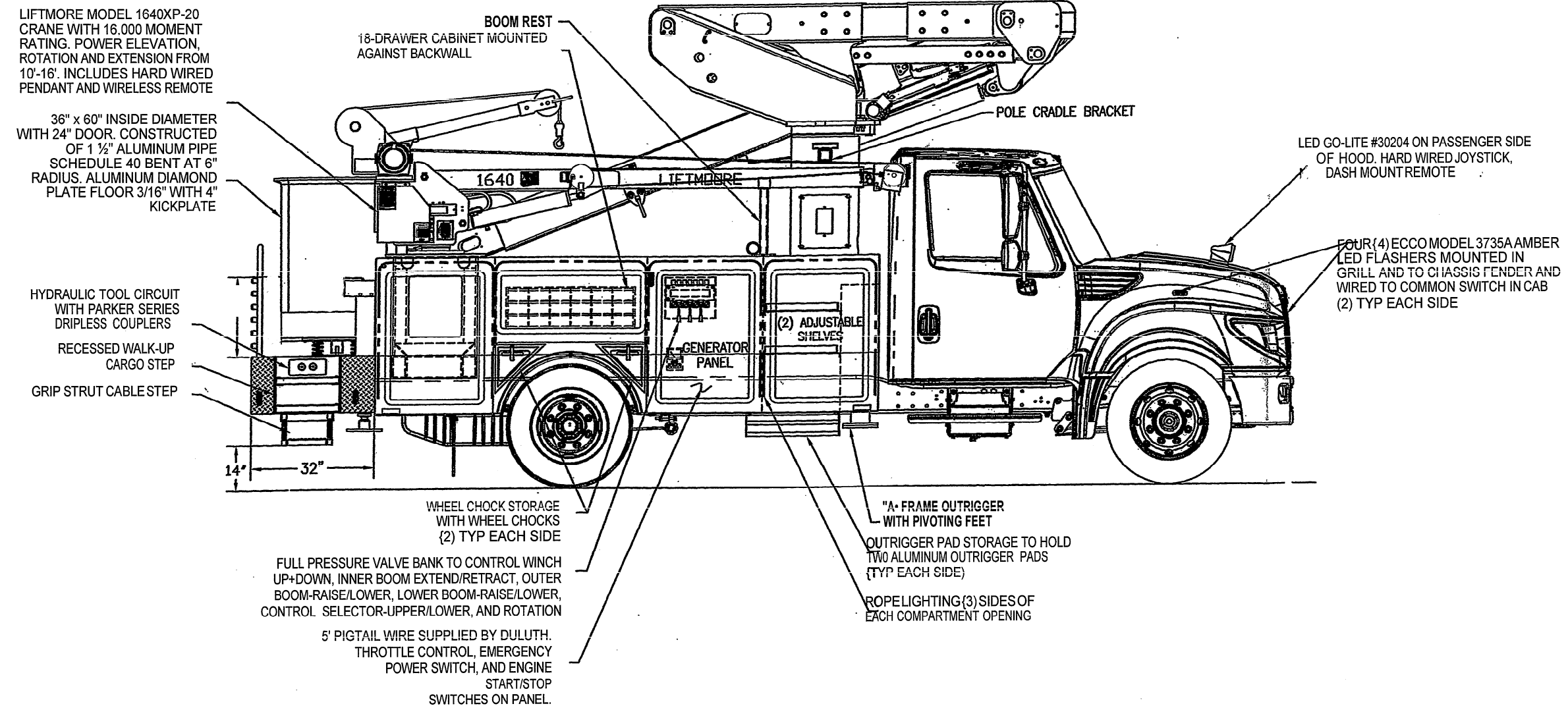
Initial if requirement is met_____Initial if requirement is not met_____

If not met, Specify difference_____

- Stowed height not to exceed 11'6" (Specify height_____)
- Completed mounting length not to exceed 25'4" (Specify length_____)

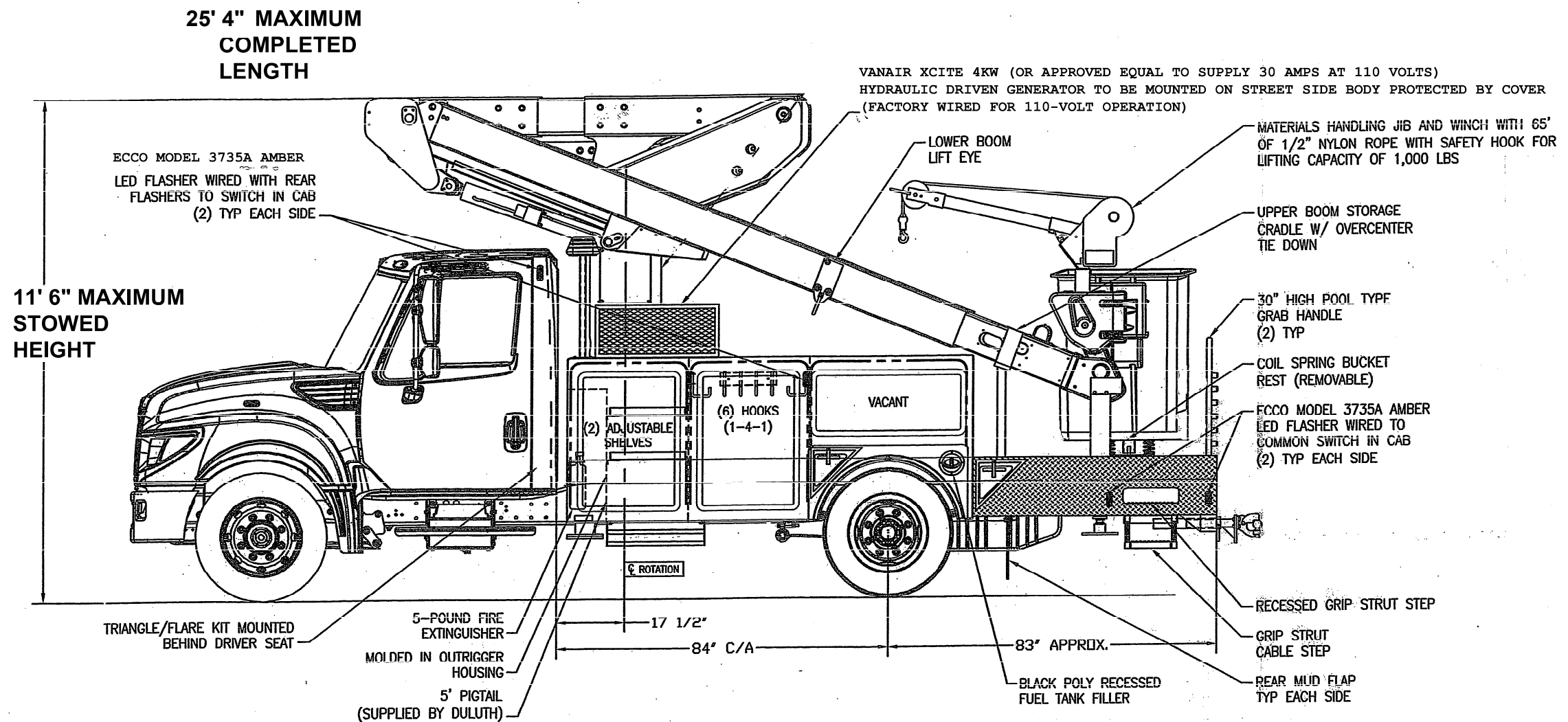
TOTAL PRICE AS DESCRIBED, FOB DULUTH, MN \$ _____

APPLICABLE TAXES INCLUDED \$ _____



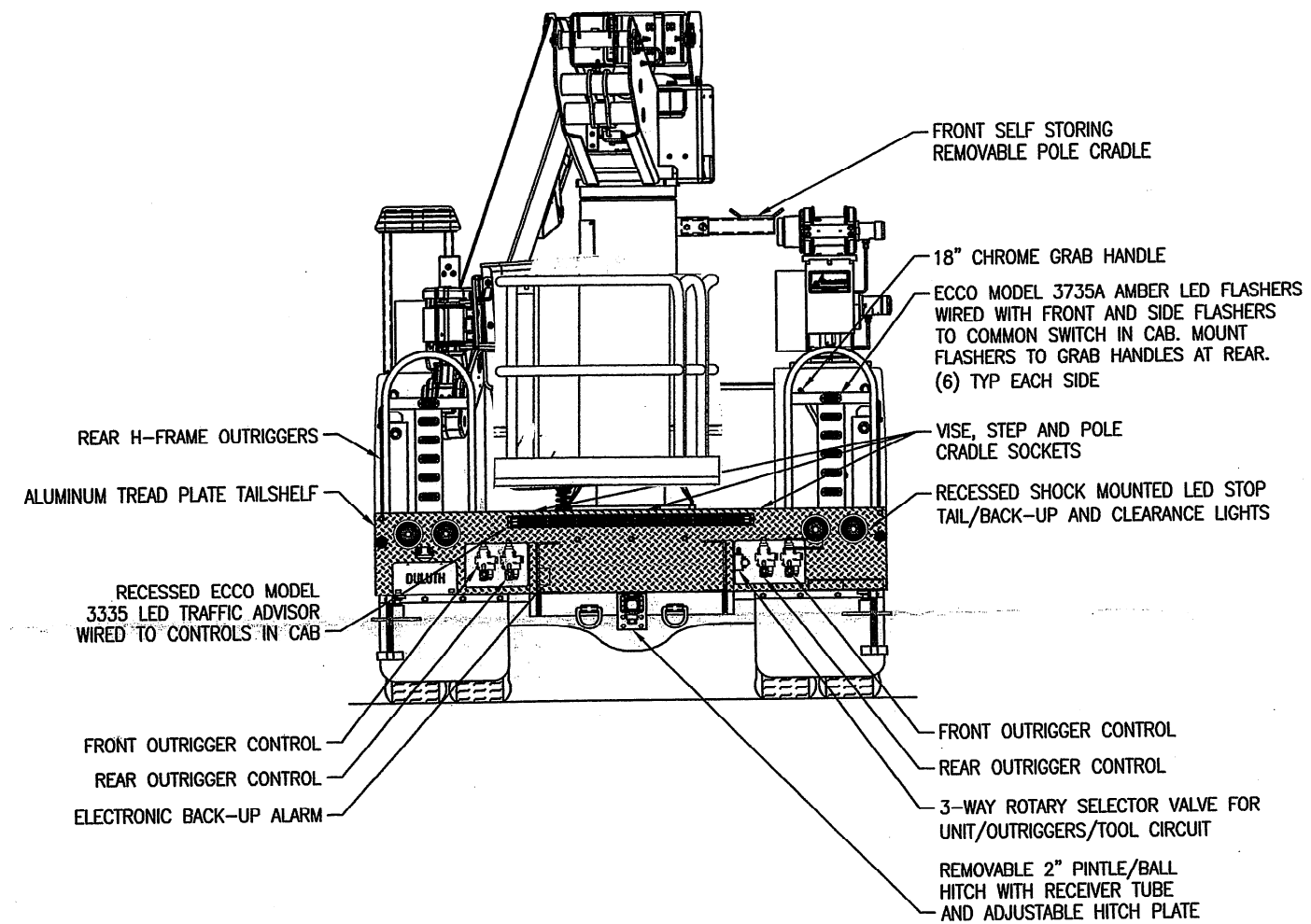
NOTE: ALL DOORS REMOVED FOR CLARITY

DULUTH_2018_BUCKET TRUCK
 CURB SIDE VIEW
 SH. 1 OF 6

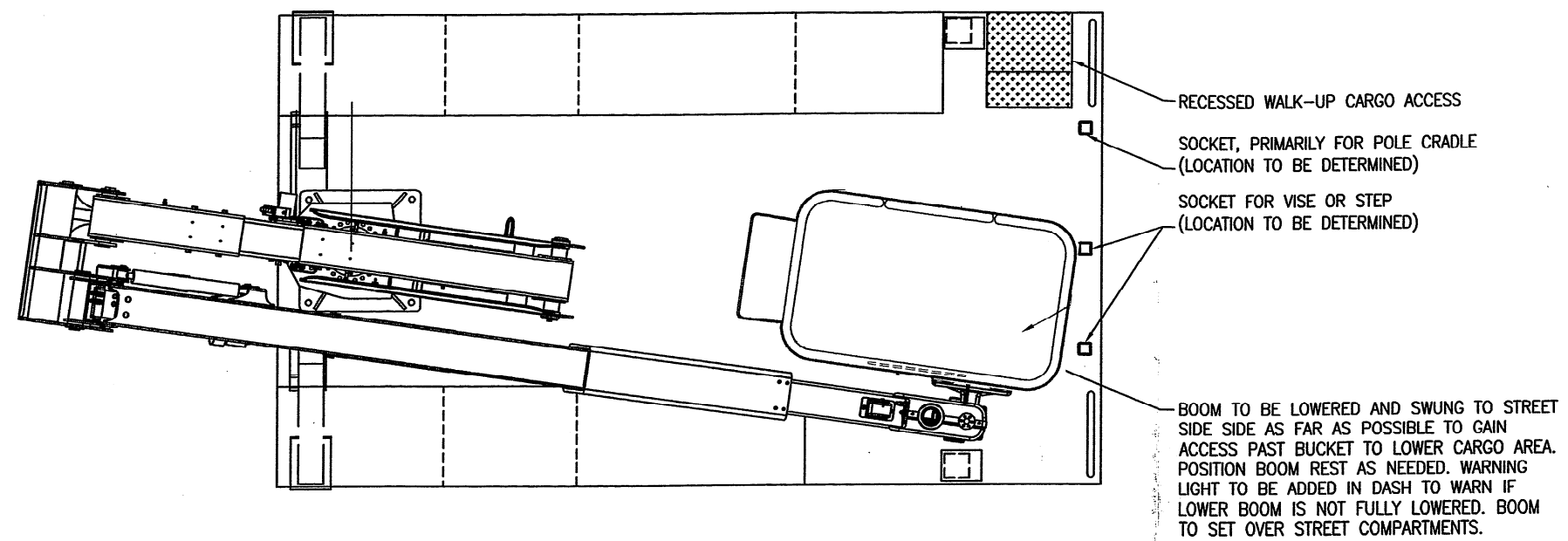


NOTE: ALL DOORS REMOVED FOR CLARITY

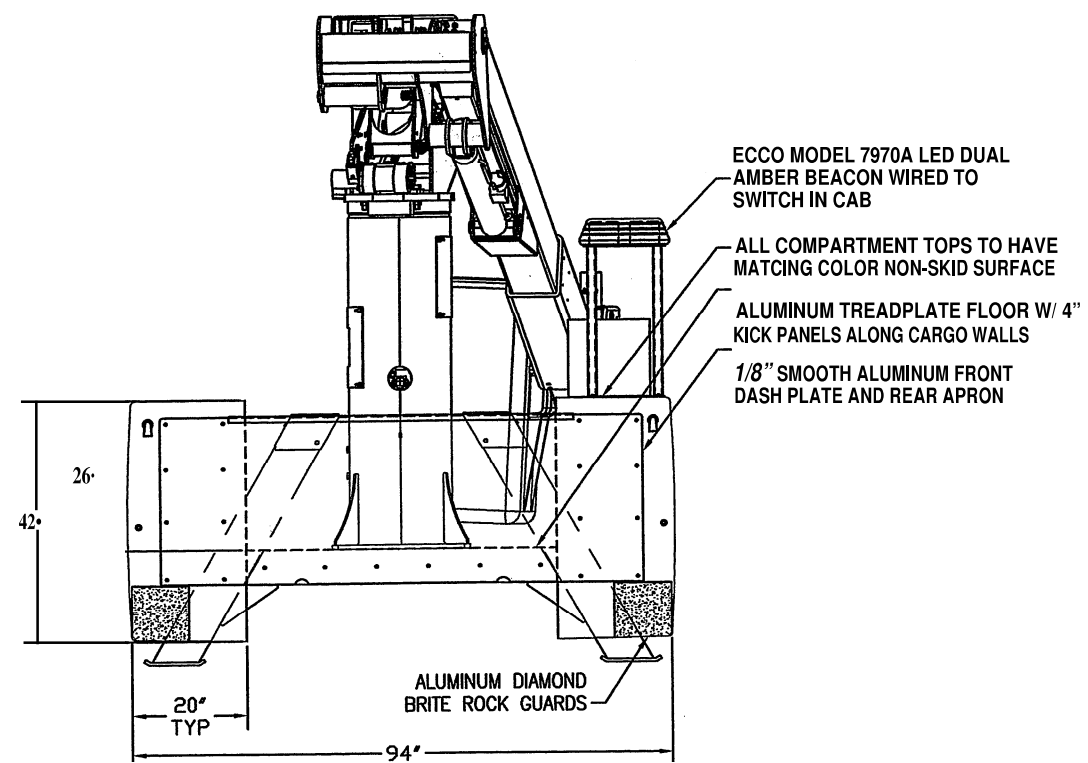
DULUTH_2018_BUCKET TRUCK
STREET SIDE VIEW
SH. 2 OF 6



DULUTH_2018_BUCKET TRUCK
REAR VIEW
SH. 3 OF 6

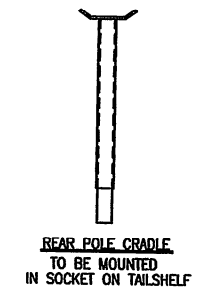
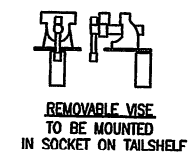
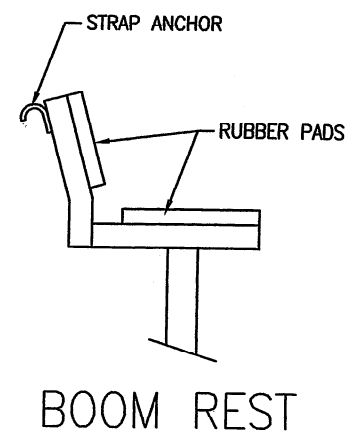


**DULUTH_2018_BUCKET TRUCK
OVERHEAD VIEW
SH. 4 OF 6**



NOTE: ALL DOORS REMOVED FOR CLARITY

DULUTH_2018_BUCKET TRUCK
FRONT VIEW
SH. 5 OF 6



DULUTH_2018_BUCKET TRUCK
MISCELLANEOUS BUCKET TRUCK ADDITIONS
SH. 6 OF 6