

City of Duluth Maintenance Operations Fleet Services 4825 Mike Colalillo Drive, Duluth, MN 55807 218-730-4450 Inter-Department Correspondence

FROM:	THOMAS ANDERSON

SUBJECT: REPLACEMENT OF UNIT #

DATE:

This purchase is part of a plan involv	ving	1	exsisting vehicle(s).
New unit 3356 that vehdicles in our fleet.	t will result in	0	net change in the number of
Unit # 3356R2017* will be	e sold at auction	,traded in, or rej	ourposed.
Unit #	will be repurpo	sed to replace u	nit #
Unit # 3356R2017* will be	e replaced with	the new vehicle	purchase authorized here.
Unit # 3356R2017* is	s 14	years old.	
The 2014-2015 Fleet Study found that purchase and maintenance, vehicles			
This vehicle is 2 Attached is a vehicle lifecycle report review.			ended replacement ag ince for
This vehicle was originally pr			It was transferred to

* UNIT NUMBERS FOLLOWED BY "R" AND THEN A NUMBER ARE RETIRED. (Example 3356R2017) THE NEW SYSTEM ALLOWS THE REUSE OF UNIT NUMBERS. R=RETIRED FOLLOWED BY THE YEAR.



UNIT	MAKE	MODEL	DESCRIPTION	YEAR	PURCHASE PRICE
3356	FREIGHTLINER	FL80	RDS DUMP BODY	2003	\$119,199.00
PLACEMENT	MILES	AGE	MAIN FRAME TOTALS	EXPENSED TO DATE	% OF VALUE
STREET MAINTENANCE	67,656	14	\$16,838.00	247,289.60	207%

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Asset	Purchase Cos	t Upfitting Cost	Total Cost	<u>Maintenance</u> <u>Expense</u>	Percent	
Vehicle: 3356: 2003 Freightli FL80	ner \$119,199.00	\$0.00	\$119,199.00	\$230,451.60	193%	
Grand	Total: \$119,199.00	\$0.00	\$119,199.00	\$230,451.60	193%	

Asset Life Cycle - Percent of Maintenance

MAINFRAME TOTAL \$16,838,00

Report Created by collectiveGov 6.1



1130 73rd Avenue NE Fridley, MN 55432 (763) 571-1902 1-800-795-1280 Fax # (763) 571-5091

Highway 60 East Lake Crystal, MN 56055 (507) 726-6041 1-800-722-0588 Fax # (507) 726-2984 www.crysteeltruck.com

AN EQUAL OPPORTUNITY EMPLOYER

May 12, 2017

Tom Anderson City of Duluth 4825 Mike Colalillo Drive Duluth, MN 55807-2731

Reference: Quote to install plow equipment and refurbished RDS Chassis Mounted Body on customer supplied cab chassis 2017 with 96"CA for Replacement Of unit Number 3356

Dear Tom:

Per your request we are pleased to quote the following equipment manufactured to current standards to include the following:

One (1) Install Crysteel refurbished Stainless Steel 10' RDS Dump Body To include the following: Refurbish 10' RDS body and cross conveyer As needed to bring body to like new condition Stainless Steel Cab Shield 1/2" Rubber belting on front and sides to cover pre wet Hoist frame and front hitch blasted and painted Add stainless Steel Extension to front top of Hopper sloped to back of cab shield Installed on suitable cab chassis \$26590.95 Convert Monroe Hydraulic Pre Wet system to Hydraulic Closed Loop to include All plumbing, enclosure, nozzles, Motor and Feedback Turbine for hydraulic operation system to be plumber for separate operation of driver side front and rear spinner \$3411.27 Falls 46B Style Front hitch w/ 4" Single Acting lift cylinder Pressure relief Valve installed Fall Front Plow TER1143 11' long Trip Edge Snow Flap Installed \$15839.03 For Falls 9' Double function Wing with Monroe Para-Glide Lift and hydraulic pusher cylinder. Includes Painting, Installation Cutting edge and lock valves (work done at time of original Installation Components as follows:

> Falls TDL-9ATE Wing Whelen Light on wing model WPLOW1A w/ switch Mounted on dash

Wing hydraulic hose connections on Passenger Side located on top of plow frame	\$15695.43
Plow Light (customer Specified) on Stainless Steel Mirror brackets Installed	\$ 1163.57
Whelen Strobe System (customer Specified) Installed with Stainless Steel Boxes Mounted at rear of RDS box per Customer specification	\$ 4798.89
LED Sander Light installed per customer spec's	\$ 214.46
Mud Flaps installed front and rear of tire	\$ 250.81
Federal Standard Camera System 56-NTCS-2 Installed per customer location	\$ 1591.61
Force America Ultra Joy Stick Hydraulic control system Hot Shift PTO LS Pump 9 valve operations as follows: Hoist D/A, Plow lift D/A, Plow reverse D/A, Main conveyor w/reverse, Cross Conveyor w/reverse, Driver side spinner, and main rear Spinner Stainless Steel Valve enclosure vertical style Reservoir Stainless Steel with all filters, ball valve, Mounted in cab shield up rights Special hydraulic hose specified by customer Weather Head Frost 2B series 6100 Force Controller Installed	\$40840.36
Loadshare Air bag installed on passenger side front For wing application	\$ 1116.98
Equipment and installation	\$111513.36
Note: For removal of RDS body from old cab chassis Add	\$ 1050.25

Note: Crysteel to offer a Trade-in value of \$8500.00 for old City of Duluth Plow truck unit number 3356

Please look over this quote and if you have any questions, please give me a call at any time.

Sincerely,

Bob Brandenburg Crysteel Truck Equipment

- All prices are subject to applicable taxes
- Quotes are good for 30 days



City of Duluth Maintenance Operations Fleet Services 4825 Mike Colalillo Drive, Duluth, MN 55807 218-730-4450 Inter-Department Correspondence

FROM: THOMAS ANDERSON

SUBJECT: REPLACEMENT OF UNIT #

DATE:

This purchase is	part of a plan involving	1 exsisting vehicle(s).	
New unit vehdicles in our	3357 that will result in fleet.	0 net change in the number	r of
Unit #	3357R2017* will be sold at auctio	on,traded in, or repurposed.	
Unit #	will be repurp	oosed to replace unit #	
Unit #	3357R2017* will be replaced with	n the new vehicle purchase authorized here.	1
Unit #	3357R2017* is 12	years old.	
	Fleet Study found that, in order to r aintenance, vehicles of this kind sh]years old.	minimize total City vehicle costs for ould be replaced when they reach	
	Fhis vehicle is <u>0</u> years bey chicle lifecycle report outlining total	yond the recommended replacement ag l cost of maintenance for	
This veh	icle was originally pruchased by the	e It was transferred to	
	for continued City use.		

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UNIT	MAKE	MODEL	DESCRIPTION	YEAR	PURCHASE PRICE
3357	МАСК	CV712	RDS DUMP BODY	2005	\$149,262.00
PLACEMENT	MILES	AGE	MAIN FRAME TOTALS	EXPENSED TO DATE	% OF VALUE
STREET MAINTENANCE	62,136	12	\$0.00	\$192,437.23	129%

Asset Life Cycle - Percent of Maintenance

Asset	Purchase Cost	Upfitting Cost	<u>Total Cost</u>	<u>Maintenance</u> Expense	Percent
Vehicle: 3357: 2005 MACK CV712	\$149,262.00	\$0.00	\$149,262.00	\$192,437.23	129%
Grand Total:	\$149,262.00	\$0.00	\$149,262.00	\$192,437.23	129%



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www.crysteeltruck.com AN EQUAL OPPORTUNITY EMPLOYER

May 12, 2017

Tom Anderson City of Duluth 4825 Mike Colalillo Drive Duluth, MN 55807-2731

Reference: Quote to install plow equipment and refurbished RDS Chassis Mounted Body on customer supplied cab chassis 2017 with 96"CA for Replacement Of unit Number 3357

Dear Tom:

Per your request we are pleased to quote the following equipment manufactured to current standards to include the following:

One (1) Install Crysteel refurbished Stainless Steel 10' RDS Dump Body To include the following: Refurbish 10' RDS body and cross conveyer As needed to bring body to like new condition Stainless Steel Cab Shield 1/2" Rubber belting on front and sides to cover pre wet Hoist frame and front hitch blasted and painted Add stainless Steel Extension to front top of Hopper sloped to back of cab shield Installed on suitable cab chassis \$26590.95 Convert Monroe Hydraulic Pre Wet system to Hydraulic Closed Loop to include All plumbing, enclosure, nozzles, Motor and Feedback Turbine for hydraulic operation system to be plumber for separate operation of driver side front and rear spinner \$3411.27 Falls 46B Style Front hitch w/ 4" Single Acting lift cylinder Pressure relief Valve installed Fall Front Plow TER1143 11' long Trip Edge Snow Flap Installed \$15839.03 For Falls 9' Double function Wing with Monroe Para-Glide Lift and hydraulic pusher cylinder. Includes Painting, Installation Cutting edge and lock valves (work done at time of original Installation Components as follows:

Falls TDL-9ATE Wing Whelen Light on wing model WPLOW1A w/ switch Mounted on dash

Wing hydraulic hose connections on Passenger Side located on top of plow frame	\$15695.43
Plow Light (customer Specified) on Stainless Steel Mirror brackets Installed	\$ 1163.57
Whelen Strobe System (customer Specified) Installed with Stainless Steel Boxes Mounted at rear of RDS box per Customer specification	\$ 4798.89
LED Sander Light installed per customer spec's	\$ 214.46
Mud Flaps installed front and rear of tire	\$ 250.81
Federal Standard Camera System 56-NTCS-2 Installed per customer location	\$ 1591.61
Force America Ultra Joy Stick Hydraulic control system Hot Shift PTO LS Pump 9 valve operations as follows: Hoist D/A, Plow lift D/A Plow reverse D/A, Main conveyor w/reverse, Cross Conveyor w/reverse, Driver side spinner, and main re Spinner Stainless Steel Valve enclosure vertical style Reservoir Stainless Steel with all filters, ball valve, Mounted in cab shield up rights Special hydraulic hose specified by customer Weather Head Frost 2B series 6100 Force Controller Installed	
Loadshare Air bag installed on passenger side front	• 4440.00
For wing application	\$ 1116.98
Equipment and installation	\$111513.36
Note: For removal of RDS body from old cab chassis Add	\$ 1050.25

Note: Crysteel to offer a Trade-in value of \$12,500.00 for old City of Duluth Plow truck unit number 3357

Please look over this quote and if you have any questions, please give me a call at any time.

Sincerely,

Bob Brandenburg Crysteel Truck Equipment

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SUBJECT: RE	PLACEMENT OF UNIT #
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DATE:

This purchase is part of a plan involving 1 exsisting vehicle(s).
New unit 3358 that will result in 0 net change in the number o vehdicles in our fleet.
Unit # 3358R2017* will be sold at auction, traded in, or repurposed.
Unit # will be repurposed to replace unit #
Unit # 3358R2017* will be replaced with the new vehicle purchase authorized here.
Unit # 3358R2017* is 12 years old.
The 2014-2015 Fleet Study found that, in order to minimize total City vehicle costs for purchase and maintenance, vehicles of this kind should be replaced when they reach 12 years old.
This vehicle is 0 years beyond the recommended replacement ag Attached is a vehicle lifecycle report outlining total cost of maintenance for review.
This vehicle was originally pruchased by theIt was transferred tofor continued City use.

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UNIT	MAKE	MODEL	DESCRIPTION	YEAR	PURCHASE PRICE
3358	МАСК	CV712	RDS DUMP BODY	2005	\$147,811.00
PLACEMENT	MILES	AGE	MAIN FRAME TOTALS	EXPENSED TO DATE	% OF VALUE
STREET MAINTENANCE	52,766	12	\$0.00	\$220,285.99	149%

<u>Asset</u> Purchase Cost Upfitting Cost Total Cost Maintenance Percent Expense Vehicle: 3358: 2005 MACK CV712 \$147,811.00 \$0.00 \$147,811.00 \$220,285.99 149% Grand Total: \$147,811.00 \$0.00 \$147,811.00 \$220,285.99 149%

Asset Life Cycle - Percent of Maintenance



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TRUCK EQUIPMENT, PARTS & ACCESSORIES

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May 12, 2017

Tom Anderson City of Duluth 4825 Mike Colalillo Drive Duluth, MN 55807-2731

Reference: Quote to install plow equipment and refurbished RDS Chassis Mounted Body on customer supplied cab chassis 2017 with 96"CA for Replacement Of unit Number 3358

Dear Tom:

Per your request we are pleased to quote the following equipment manufactured to current standards to include the following:

One (1) Install Crysteel refurbished Stainless Steel 10' RDS Dump Body To include the following: Refurbish 10' RDS body and cross conveyer As needed to bring body to like new condition Stainless Steel Cab Shield 1/2" Rubber belting on front and sides to cover pre wet Hoist frame and front hitch blasted and painted Add stainless Steel Extension to front top of Hopper sloped to back of cab shield Installed on suitable cab chassis \$26590.95 Convert Monroe Hydraulic Pre Wet system to Hydraulic Closed Loop to include All plumbing, enclosure, nozzles, Motor and Feedback Turbine for hydraulic operation system to be plumber for separate operation of driver side front and rear spinner \$ 3411.27 Falls 46B Style Front hitch w/ 4" Single Acting lift cylinder Pressure relief Valve installed Fall Front Plow TER1143 11' long Trip Edge Snow Flap Installed \$15839.03

For Falls 9' Double function Wing with Monroe Para-Glide Lift and hydraulic pusher cylinder. Includes Painting, Installation Cutting edge and lock valves (work done at time of original Installation Components as follows: Falls TDL-9ATE Wing

Whelen Light on wing model WPLOW1A w/ switch Mounted on dash

Wing hydraulic hose connections on Passenger Side located on top of plow frame	\$15695.43
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Loadshare Air bag installed on passenger side front For wing application	\$ 1116.98
Equipment and installation	\$111513.36
Note: For removal of RDS body from old cab chassis Add	\$ 1050.25

Note: Crysteel to offer a Trade-in value of \$12,500.00 for old City of Duluth Plow truck unit number 3358

Please look over this quote and if you have any questions, please give me a call at any time.

Sincerely,

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