

THE CITY OF THE VILLAGE OF DOUGLAS WORKSHOP MEETING OF THE CITY COUNCIL

MONDAY, MARCH 18, 2024 AT 5:30 PM 86 W CENTER ST., DOUGLAS MI

AGENDA

View remotely, online or by phone -

Join online by visiting: https://us02web.zoom.us/j/84779148670

Join by phone by dialing: +1 (312) 626-6799 | Then enter "Meeting ID": 847 7914 8670

1. CALL TO ORDER: By Mayor

2. ROLL CALL: By Clerk

3. STRATEGIC PLANNING SESSION

A. Police

B. DPW

4. ADJOURNMENT

Motion to adjourn the meeting.

Please Note – The City of the Village of Douglas (the "City") is subject to the requirements of the Americans with Disabilities Act of 1990. Individuals with disabilities who plan to attend this meeting and who require certain accommodations in order to allow them to observe and/or participate in this meeting, or who have questions regarding the accessibility of this meeting or the facilities, are requested to contact Laura Kasper, City Clerk, at (269) 857-1438, or clerk@douglasmi.gov to allow the City to make reasonable accommodations for those persons. CITY OF THE VILLAGE OF DOUGLAS, ALLEGAN COUNTY, MICHIGAN

Expenditures

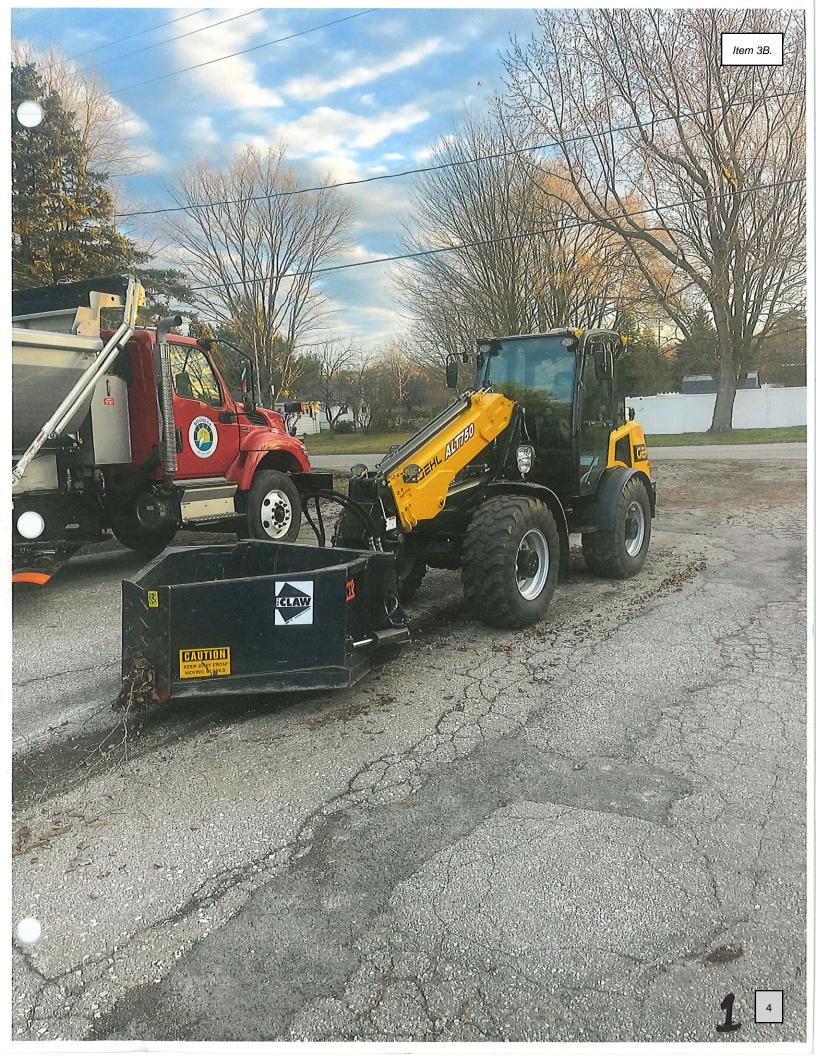
General Fund - Police 101-301

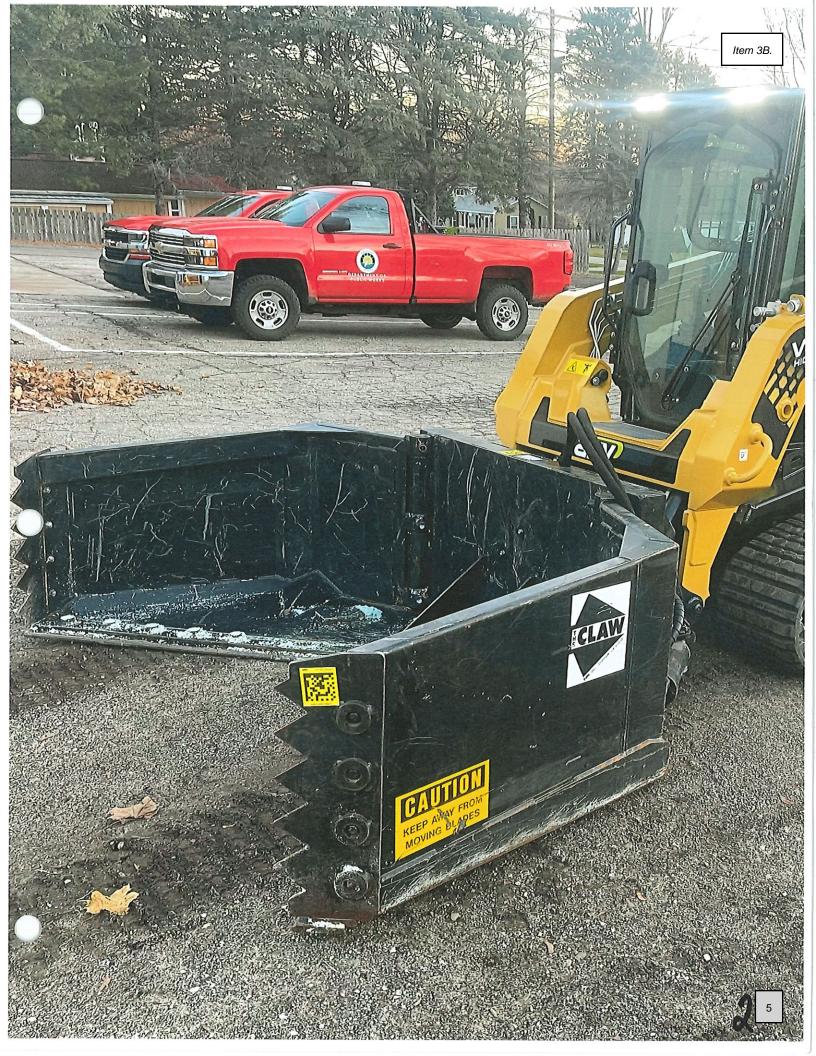
101 001											
		Actual	Actual	Actual	Actual	Actual	Budget	YTD	Projected	Proposed	Nature of Service / Notes
		18-19	19-20	20-21	21-22	22-23	23-24	23-24	23-24	24-25	Hatare or service / Hotes
	,					,					
SALARIES	702	\$69,412	\$71,920	\$76,894	\$78,822	\$80,565	\$85,600		\$85,600		Chief - 100%
WAGES	703	177,067	189,277	211,746	201,999	213,900	258,010	183,692	272,914	327,350	Full Time Officers(regular rate hours)
WAGES - PARTTIME	704	40,561	25,362	42,779	46,497	39,836	2,737	2,367	3,517		Part Time Officers
WAGES - OVERTIME	706	13,148	13,282	5,591	29,057	33,595	30,989	21,114	31,369	38,500	Overtime Wages/Worked Holiday pay
SICK PAYOUT	707	35,338	40,728	27,497	14,338	9,972	13,273	13,273	13,273	5,400	Contractual Payout of Sick Leave
SPECIAL EVENTS WAGES	708				343	7,963	5,840	3,706	5,506	-	Special events pay
WAGES - OFFICE	709	36,094	39,381	41,625	35,714	35,565	45,717	32,584	48,411	50,000	Administrative Professional - 100%
TRAINING FUNDS	718	-	-	60	-	395	500	375	600	3,000	Training funds
TRAINING FUNDS ACT 302	718.001	1,431	175	175	282	656	1,000	332	531	2,000	WMJ Training Consort, range training, ammunition
MISC TRAVEL EXPENSES-TRAINING	718.002	21	-	-	-	347	430	-	-	1,500	Per diem for training
INSURANCE BENEFITS	719	99,927	93,988	107,066	111,111	111,495	116,500	83,923	118,480	121,200	Health, dental, life, vision
PAYROLL TAXES	720	30,987	30,991	32,893	33,292	33,992	33,800	25,378	35,828	41,100	FICA, Medicare, SUI
MERS BENEFITS	721	41,611	32,288	35,216	45,545	54,732	50,900	36,918	52,120	77,400	Retirement
WORKERS COMPENSATION	722	3,821	4,111	2,828	4,486	4,234	5,185	4,876	5,185	6,000	MML workers comp fund
SUPPLIES	740	2,587	1,795	988	1,874	2,442	4,057	2,910	4,656	3,000	Paper, pencils, envelopes, laminating, file folders, post it, message pads, paper clips, tape, etc
UNIFORMS	750	788	2,073	1,818	2,182	3,340	4,500	3,012	4,819	8,000	Police uniform reimbursement/part time uniforms
CONTRACTUAL ATTORNEY	801	4,738	1,410	-	7,953	-	-	-	-	-	Labor attorney, union negotiations
CONTRACTUAL ATTORNEY PROSECUTER	801.003	-	2,310	3,384	4,847	3,168	5,000	3,864	6,182	5,000	Prosecution
CONTRACTUAL	802	4,076	10,312	6,617	5,721	3,910	5,000	2,579	4,126	5,000	Cleaning service, fire extinguisher, software maintenance, towing service, shredding service
INSURANCE (LIABILITY/AUTO)	814	18,982	11,697	11,078	13,656	13,498	13,296	13,296	13,296	14,165	Auto/Liability insurance
TELEPHONE	851	3,060	3,601	4,398	4,776	5,455	9,948	6,618	10,589	9,000	VOIP telephone, internet service, cell phones
GAS & OIL	860	11,229	9,965	9,868	15,112	16,250	17,500	8,894	14,230	17,500	Motor fuels for police equipment
PRINTING & PUBLISHING	900	-	-	880	47	-	125	-	-	_	run thru clerks
DUES/FEES/PUBLICATIONS	908	115	115	192	183	212	250	-	_	250	Police Dues / Fees / Publications
UTILITIES	922	6,211	5,847	6,032	6,586	6,588	6,900	3,421	5,474	7,250	Gas, electric, water, sewer - Police Department
REPAIRS & MAINTENANCE: GENERAL	930	-	1,788	336	4,882	939	3,500	60	96	2,000	Painting, mulch, light bulbs, misc. repairs
VEHICLE MAINTENANCE & REPAIRS	930.004	7,012	7,903	4,328	12,575	11,663	19,000	17,865	28,584	20,000	Vehicle repairs, oil change, car wash, etc.
EQUIPMENT RENT-EQUIPMENT FUND	941.001	-	16,667	16,700	16,700	20,000	20,000	15,000	20,000	20,000	for future replacement of patrol cars
LEASE- COPIER	942	2,303	2,437	2,437	2,437	460	-	-	-	-	Copier lease
EQUIPMENT	977	-	108	3,041	495	2,188	4,000	-	4,000	2,250	ballistic vests
COMPUTER HARDWARE/SOFTWARE	977.005	-	6,852	-		,	,			-	
CAPITAL OUTLAY	979	-	-	3,300	2,370	33,723	9,028	9,028	9,028	41,500	See Below
Total		\$611,115	\$626,404	\$659,767	<u>\$703,882</u>	\$751,083	<u>\$772,585</u>	<u>\$551,924</u>	\$798,414	<u>\$922,615</u>	
FY 23-24 Notes	Priority								item	s to Consider	Notes:
	1				AFD rep	lacement x4	4,780.00	4,780			3 New Cameras(3x150) (977)
				1 So	lar powered S		4,248.00	4,248			3 Stop Sticks (3*500) (977)
							,	, -			6 Go Bags(50*6) (977)
										500	
						,				12,000 5,000 3,500	AED outside at police station Generator Police sign Speed Boards (2) Police flag pole
											Police Parking improvements Additional Officer(703,708,719,720,721)

Equipment - DPW Equipment

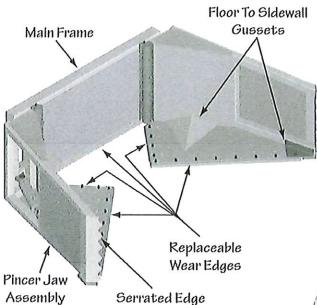
660-902

		Actual	Actual	Actual	Actual	Actual	Budget	YTD	Projected	Proposed	Budget	Nature of Service / Notes
		18-19	19-20	20-21	21-22	22-23	23-24	23-24	23-24	24-25	Change	Nature of Service / Notes
DEPRECIATION	968	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$0.00	\$0.00	0%	
DEPRECIATION	900	Ş -	ş -	Ş -	Ş -	ş -	\$ -	> -	\$0.00	\$0.00	0%	
CAPITAL OUTLAY	979	38,681.00	70,010.00	47,214.00	224,372.00	446,469.00	145,600.00	145,600.00	145,600.00	384,733.00	164%	see below
Total		\$38,681.00	\$70,010.00	\$47,214.00	\$224,372.00	\$446,469.00	\$145,600.00	\$145,600.00	\$145,600.00	\$384,733.00	164%	
FY 23-24 Notes	Priority									Est. Cost		Notes:
									it	ems to consid	er	
		two tr	actors with 2 b	lades, two mo	wers, and two	brine sprayers	114,470.00	114,470.00		15,775.00		Tink
				(GIS Equipment	with 2 laptops	20,314.00	20,314.00		8,578.00		micro robot
					Hand too	ol replacement	4,920.00	4,920.00		11,523.00		tailgate spreader
							5,896.00	5,896.00	•	130,713.00		Western Star
										30,135.00		JD attachments
										51,712.00		Falcon asphalt trailer
										102,957.00		Bobcat TL619
										6,840.00		42" tilt grade bucket
										19,000.00		30" flail mower
										7,500.00		V50 4 in 1 bucket
										FY25-26		
										151,451.00		Western Star upfitting work wont be done till 25-26
											·	But if Western Star is done this must be done





DESIGN FEATURES





A special loader bucket that scoops leaves and loose garden waste out of the gutter and into disposal trucks at lower costs. The Claw can be mounted on most 34 to 1½ yard wheel loaders.

The Pincer Jaw Assembly is constructed of structural steel tubing welded together to form rigid rectangular frames. The framework is covered and strengthened with steel side panels. The serrated front edges assist in grasping and pinching materials.

Wear Provisions The underside of the Claw, which makes frequent contact with asphalt and other hard surfaces, is equipped with replaceable tungsten carbide wear shoes and hard steel blades that absorb a majority of the abrasion and wear. Tungsten carbide is an extremely hard material that is incorporated into the wear shoes to combine the highest wear and abrasion resistance possible with strength and impact resistance.

Piano-Hinge Construction The pincer Jaw assembly is attached to the main frame with a 3 inch diameter piano-hinge that features a 1½ inch pin that won't shear on impact. More importantly the large diameter provides a vast amount of wear surface to promote long lasting life. The hinges include greasable hardened bushing inserts.

Plano Hinge
Construction

Greaseable Hardened
Bushing Inserts

Rebuildable
Hydraulic Cylinders

Tungsten Carbide
Wear Shoes

Hydraulic System The rebuildable twin cylinders that open and close the Claw are capable of developing pinch force necessary to grasp and hold materials too long or bulky to fit within the pincer bucket. The cylinders have a 3 inch bore, an 8 inch stroke and a 1¼ inch chrome hardened rod. Mechanical stops prevent cylinder damage by not allowing the cylinders to over extend during the Claw's duty cycle.

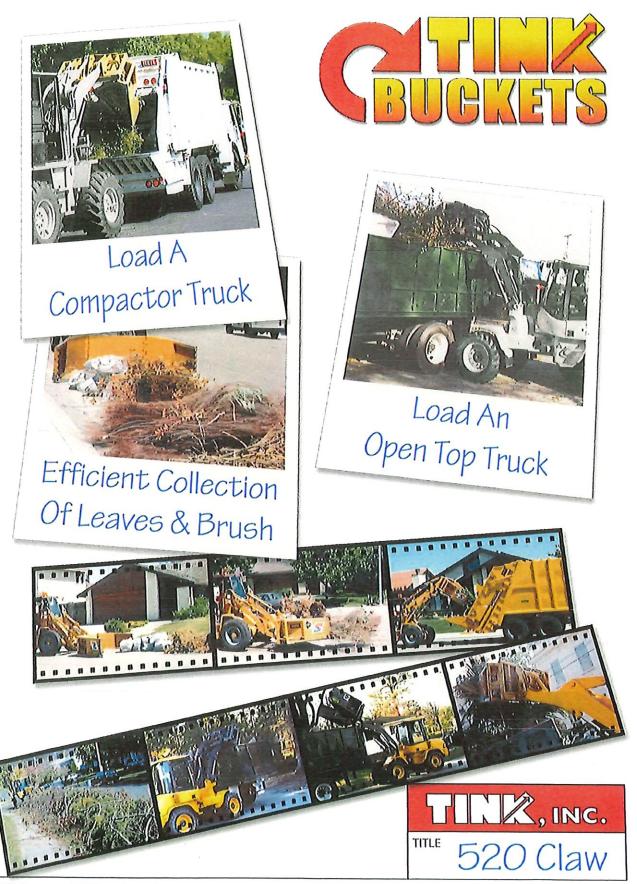
When the pincer jaws make contact with an immovable object the hydraulic cross over relief valve senses the obstruction a diverts the fluid away from the cylinders. This automatic action minimzes cylinder damage and premature hydraulic system failure.

The flow divider distributes an equal amount of hydraulic fluid to each cylinder ensuring that the pincer jaws operate evenly and simultaneously.

The 520 Claw hydraulic system is designed for machines having 8 to 50 gpm and 1500 to 3800 psl.

Prices and specifications are subject to change without notice.

TINK, Inc. • 2361 Durham Dayton Hwy • Durham CA 95938 • 800-824-4163 • @ 2002



TINK, Inc. • 2361 Durham Dayton Hwy. • Durham, CA 95938 • 800-824-4163 • @ 2002 • CL1

Cody Carpenter

From:

Jack LaForge <jack.laforge@altg.com>

Sent:

Wednesday, January 31, 2024 6:35 AM

To:

Cody Carpenter

Subject:

L60 & Attachment pricing

Attachments:

EQ0323757_L60H2_CITY OF DOUGLAS_SOURCEWELL PRICING_JL.pdf; EQ0323757

_L60H2_CITY OF DOUGLAS_SPECS_JL.pdf

Good Morning Cody,

Attached is a Sourcewell quote on a new L60H. We currently have this unit in stock.

The Tink 520 claw with skid steer mount is \$15,775.

The Tink 720 claw with Volvo coupler is \$20,500.

 $x2 = {}^{\#}31,550$

Let me know if you need anything else.

Thanks,



UPTIME MATTERS

JACK LAFORGE

COMPACT EQUIPMENT SPECIALIST

8840 Byron Commerce Dr. SW Byron Center,MI 49315

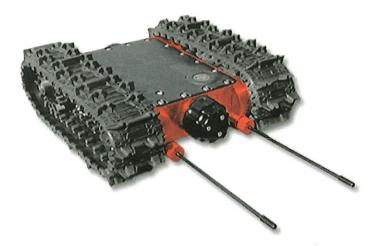
(616) 878-7450

Mobile: (616) 551-8421 jack.laforge@altg.com

www.altg.com

"Fostering Customers for Life"





THE MACHINE LAB, INC. 1281 E. Magnolia, UnitD Suite 193 Fort Collins, CO 80524

Phone: 970-568-9812

Quote For:

City of Douglas MI
Greg Salinas

Customer Phone 269-286-2328

Ship To	
City of Douglas, MI Greg Salinas	

Quote

Date	2/2/2024	$\Big)$
Quote #	20371	\bigcup

Customer Contact	Customer E-mail	P.O. No.	Payment Terms	Shipping Method	Ship Date
	gsalinas@DouglasMI.gov		Net 15	Fed Ex	4 wks frm PO

Item	Description		Qty	Price	Total
MicroTraxx Shipping and Handl	MicroTraxx small inspection robot system. Fed Ex Ground, Insured		1	8,500.00 78.35	8,500.00 78.35
			A PROPERTY IN THE PROPERTY OF		
		Sı	ubtotal		\$8,578.35
E-mail		Sa	ales Tax	(8.25%)	\$0.00
zack@themachin Web Sit		T	otal		\$8,578.35



Truck & Trailer Specialties

3286 Hanna Lake Ind. Park Dr. Dutton, MI. 49316 Phone 616-698-8215, Fax 616-698-0972

Village of Douglas Attn: Rick Zoet Phone: 269-686-6243 April 13, 2023



State Contract Hyperlink No: 20000000034

Equipment Quotation

Chassis info: S/A RDS

Supply and install Monroe tailgate spreader for summer operations including:

00189893-A model MS10318 cross conveyor for RDS application Mild steel construction, powder coated Orange in color 18" hi-temp straight belt with flexible stainless splicing Right hand drive Caged design drive and idler pulleys Poly support rollers with stainless shaft Heavy-duty bearing and belt adjustment Includes 00057849-A Berming chute kit Install all necessary hoses with stainless steel quick couplings

Above Installed Price: \$11,523.00 ea.

Lead time: 300 days ARO

Payment Terms: Net 30

Pricing good for: 30 days

Thank you for the opportunity to quote.

Submitted by: Chad Veenstra / Mike Bouwman

Prepared for: City of Douglas 86 W Center Street Douglas, MI 49406 Phone: 269-857-2763

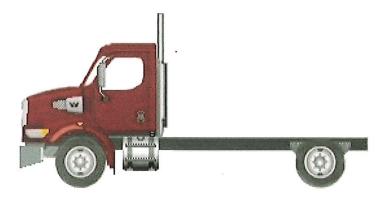
Prepared by:
Eric Schaltz
FREIGHTLINER OF GRAND
RAPIDS
5285 CLAY AVENUE S.W.
WYOMING, MI 49548
Phone: 616-531-6600

A proposal for City of Douglas

Prepared by FREIGHTLINER OF GRAND RAPIDS Eric Schaltz

Feb 02, 2024

Western Star 47X



Components shown may not reflect all spec'd options and are not to scale

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis 02/02/2024 8:16 AM

Page 1 of 22

Prepared for: City of Douglas 86 W Center Street Douglas, MI 49406 Phone: 269-857-2763 Prepared by Eric Schaltz FREIGHTLINER OF GRAND RAPIDS 5285 CLAY AVENUE S.W. WYOMING, MI 49548 Phone: 616-531-6600

SPECIFICATION PROPOSAL

	Data Code	Description	Weight Front	Weight Rear	
Price Le	vel				
	PRL-28X	WST 47X/49X PRL-28X (EFF:MY25 ORDERS)			
Data Ve	rsion				
	DRL-027	SPECPRO21 DATA RELEASE VER 027			
Vehicle	Configurati	on			
	001-470	WESTERN STAR 47X	9,050	6,525	
	004-225	2025 MODEL YEAR SPECIFIED			
	002-004	SET BACK AXLE - TRUCK			
	019-006	TRAILER TOWING PROVISION AT END OF FRAME WITH SAE J560	10	10	
	003-001	LH PRIMARY STEERING LOCATION			
General	Service				
	AA1-003	TRUCK/TRAILER CONFIGURATION			
	AA6-002	DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)			
	99D-027	EPA EMISSIONS CERTIFICATION FOR REGISTRATION OUTSIDE CARB STATES - EPA CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD OF DRIVER DOOR)			
	AF2-998	NONE			
	A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE			
	A84-1GM	GOVERNMENT BUSINESS SEGMENT			
	AA4-011	FIXED LOAD COMMODITY			
	AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS			
	AB1-008	MAXIMUM 8% EXPECTED GRADE			
	AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE			
	995-1A5	WESTERN STAR VOCATIONAL WARRANTY			
	A66-99D	EXPECTED FRONT AXLE(S) LOAD: 16000.0 lbs			

Application Version 11.9.502 Data Version PRL-28X,027 City of Douglas 47X Plow Chassis

02/02/2024 8:16 AM

Page 2 of 22



Prepared by Eric Schaltz FREIGHTLINER OF GRAND RAPIDS 5285 CLAY AVENUE S.W. WYOMING, MI 49548 Phone: 616-531-6600

		Weight	Weight
Data Code	Description	Front	Rear
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD: 23000.0 lbs		
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 39000.0 lbs		
A70-99D	EXPECTED GROSS COMBINATION WEIGHT: 80000.0 lbs		
Truck Service			
AA3-073	BELLY PLOW BODY WITH HIGH GROUND CLEARANCE	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
AF3-2A8	TRUCK AND TRAILER SPECIALTIES INC.		
Engine			
101-3BU	CUM L9 370 HP @ 2100 RPM; 2100 GOV RPM, 1250 LB-FT @ 1200 RPM	-850	-70
Electronic Paramete	ers		
79A-065	65 MPH ROAD SPEED LIMIT		
79K-013	PTO MODE ENGINE RPM LIMIT - 1600 RPM		
79P-032	PTO RPM CONTROL WITH STEERING WHEEL SWITCHES		
79W-024	CRUISE CONTROL BUTTON PTO CONTROL		
79X-023	PTO SPEED 1 SETTING - 600 RPM		
80\$-001	PTO 1, DASH SWITCH, STATIONARY OPERATION		
80V-001	ENGINE MOUNT PTO, DASH SWTICH ENGAGES PTO MODE, STATIONARY OPERATION		
Engine Equipment			
99C-024	EPA 2010/GHG 2024 CONFIGURATION		
13E-001	STANDARD OIL PAN		
105-001	ENGINE MOUNTED OIL CHECK AND FILL		
014-112	SIDE OF HOOD AIR INTAKE WITH ENGINE MOUNTED HIGH CAPACITY AIR CLEANER, PASSIVE PRECLEANER, WITH INSIDE/OUTSIDE AIR AND SNOW DOOR	10	
124-1DJ	DR 12V 160 AMP 36-SI BRUSHLESS QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE		
292-222	(3) DTNA GENUINE, HIGH TEMP AGM STARTING AND CYCLING, MIN 2775CCA, 570RC, THREADED STUD BATTERIES		
290-1AC	PASSENGER SEAT BATTERY BOX VENTED TO OUTSIDE OF CAB		
282-013	BATTERY BOX MOUNTED UNDER PASSENGER SEAT		

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis

02/02/2024 8:16 AM

Page 3 of 22

Prepared by Eric Schaltz FREIGHTLINER OF GRAND RAPIDS 5285 CLAY AVENUE S.W. WYOMING, MI 49548 Phone: 616-531-6600

г	Data Code	Description	Weight Front	Weight Rear	
	291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		11041	***************************************
2	289-006	PLASTIC BATTERY BOX COVER			
2	293-058	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	2		
2	295-029	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2		
1	107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE			
1	152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM			
1	128-032	C-BRAKE BY JACOBS WITH LOW/OFF/HIGH BRAKING DASH SWITCH			
(016-1E2	RAISED RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	-35	-30	
2	28F-015	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD ACTIVE REGENERATION AND VIRTUAL REGENERATION REQUEST SWITCH IN CLUSTER AND DASH MOUNTED INHIBIT SWITCH			
2	239-032	11 FOOT 00 INCH (132 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT			
2	233-017	STANDARD CURVE BRIGHT UPPER STACK(S)			
2	237-1F8	RH CURVED VERTICAL TAILPIPE B-PILLAR RAISED UNDER STEP MOUNTED AFTERTREATMENT SYSTEM			
2	23U-002	13 GALLON DIESEL EXHAUST FLUID TANK	9	3	
2	23Z-007	POLISHED ALUMINUM DIAMOND PLATE WST DIESEL EXHAUST FLUID TANK COVER			
2	43X-013	LH DIESEL EXHAUST FLUID TANK LOCATED BACK OF CAB WITH MAXIMUM APPROVED LENGTH DEF LINES COILED AT TANK			
4	43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP			
2	242-001	STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD			
2	273-058	AIR POWERED ON/OFF ENGINE FAN CLUTCH			
2	276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED			
1	122-1H4	DETROIT FUEL WATER SEPARATOR WITH WATER IN FUEL SENSOR AND 12 VOLT PREHEATER	10		

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis

02/02/2024 8:16 AM

Page 4 of 22

Prepared by Eric Schaltz FREIGHTLINER OF GRAND RAPIDS 5285 CLAY AVENUE S.W. WYOMING, MI 49548 Phone: 616-531-6600

Data Code	Description	Weight Front	Weight Rear
110-003	CUMMINS SPIN ON FUEL FILTER		
118-001	FULL FLOW OIL FILTER		
266-109	1400 SQUARE INCH VOCATIONAL RADIATOR WITH PROTECTION PACKAGE	20	
103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
261-001	STANDARD CHARGE AIR COOLER PLUMBING		
270-016	RADIATOR DRAIN VALVE		
168-002	LOWER RADIATOR GUARD		
360-016	1310 ADAPTER FLANGE FOR FRONT PTO PROVISION	10	
361-100	NO REPTO, EXTENDED FLYWHEEL HOUSING, CUML9 REQUIRED FOR PACKAGING		
138-011	PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4	
140-022	CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
132-004	ELECTRIC GRID AIR INTAKE WARMER		
155-055	DELCO 12V 39MT HD/OCP STARTER WITH THERMAL PROTECTION AND INTEGRATED MAGNETIC SWITCH	-45	
Transmission			
342-582	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	-230	-130
Transmission Equi	pment		
343-339	ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV		
84B-012	ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES		
84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
84E-000	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis

02/02/2024 8:16 AM

Page 5 of 22

Prepared by Eric Schaltz FREIGHTLINER OF GRAND RAPIDS 5285 CLAY AVENUE S.W. WYOMING, MI 49548 Phone: 616-531-6600

Data Code	Description	Weight Front	Weight Rear	
84F-000	SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE			
84G-000	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE			
84H-000	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE			
84N-200	FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED			
353-073	QUICKFIT BODY LIGHTING CONNECTOR UNDER CAB, WITH CAP			
34C-011	ELECTRONIC TRANSMISSION WIRING TO CUSTOMER INTERFACE CONNECTOR			
362-823	CUSTOMER INSTALLED CHELSEA 280 SERIES PTO			
363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION ALLISON			
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN			
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED			
370-006	WATER TO OIL TRANSMISSION COOLER			
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK			
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)			
Front Axle and Equ	uipment			
400-1AA	MFS-16-143A 16,000# FL1 71.5 INCH KPI/3.74 INCH DROP SINGLE FRONT AXLE	130		
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS	20		
402-030	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	10		
403-002	NON-ASBESTOS FRONT BRAKE LINING			
419-023	CONMET CAST IRON FRONT BRAKE DRUMS			
427-001	FRONT BRAKE DUST SHIELDS	5		
409-006	FRONT OIL SEALS			
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL			

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis

02/02/2024 8:16 AM

Page 6 of 22

Prepared by Eric Schaltz FREIGHTLINER OF GRAND RAPIDS 5285 CLAY AVENUE S.W. WYOMING, MI 49548 Phone: 616-531-6600

		Weight	Weight	
Data Code	Description	Front	Rear	
405-017	HALDEX AUTOMATIC FRONT SLACK ADJUSTERS W/ SINGLE PIN CLEVIS			
536-103	SINGLE HIGH CAPACITY POWER STEERING GEAR, BENDIX, 14.6-18K	-18		
534-003	4 QUART POWER STEERING RESERVOIR	5		
40T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 FRONT AXLE LUBE			
Front Suspension				
620-004	16,000# FLAT LEAF FRONT SUSPENSION	215		
619-002	THREADED SPRING PINS AND BUSHINGS - FRONT SUSPENSION			
410-001	FRONT SHOCK ABSORBERS			
Rear Axle and Equi	pment			
420-051	RS-23-160 23,000# R-SERIES SINGLE REAR AXLE		-2,260	-parades (table)
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS		30	
421-563	5.63 REAR AXLE RATIO			
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING			
386-094	RPL14 MERITOR SERVICE-FREE MAIN DRIVELINE WITH HALF ROUND (17T) YOKES	-60	-60	
388-998	NO INTERAXLE (#3) DRIVELINE			
452-001	DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE		20	
878-018	(1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE			
87B-008	INDICATOR LIGHT FOR EACH DIFFERENTIAL LOCKOUT SWITCH			
423-033	MERITOR 16.5X7 Q+ CAST SPIDER HEAVY DUTY CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES			
433-002	NON-ASBESTOS REAR BRAKE LINING			
434-012	BRAKE CAMS AND CHAMBERS ON REAR SIDE OF DRIVE AXLE(S)			
451-023	CONMET CAST IRON REAR BRAKE DRUMS			
425-002	REAR BRAKE DUST SHIELDS		5	
440-006	REAR OIL SEALS			
426-100	WABCO TRISTOP D LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS		-20	
428-031	HALDEX AUTOMATIC REAR SLACK ADJUSTERS WITH STAINLESS STEEL CLEVIS PINS			

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis

02/02/2024 8:16 AM

Page 7 of 22



Prepared by Eric Schaltz FREIGHTLINER OF GRAND RAPIDS 5285 CLAY AVENUE S.W. WYOMING, MI 49548 Phone: 616-531-6600

Data Code	Description	Weight Front	Weight Rear
41T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE	Front	Real
42T-001	STANDARD REAR AXLE BREATHER(S)		
Rear Suspension			
622-1DC	26,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD		140
621-114	8.5 INCH NOMINAL RIDE HEIGHT (430MM GLOBAL REFERENCE HEIGHT)		
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP		
623-005	FORE/AFT CONTROL RODS		
439-998	NO REAR SHOCK ABSORBERS		-30
^P usher / Tag Equip	ment		
429-998	NO PUSHER/TAG BRAKE DUST SHIELDS		
Brake System			
490-1AU	WABCO 4S/4M ABS WITH TRACTION CONTROL WITH ATC SHUT OFF SWITCH		
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
480-040	WABCO SYSTEM SAVER 1200 HEATED AIR DRYER WITH PRESSURE CONTROL VALVE		
483-004	WABCO OIL COALESCING FILTER FOR AIR DRYER		
479-012	AIR DRYER MOUNTED UNDER HOOD		
460-008	STEEL AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL		
477-004	PULL CABLES ON ALL AIR RESERVOIR(S)		
Frailer Connection			
914-001	AIR CONNECTIONS TO END OF FRAME WITH GLAD HANDS FOR TRUCK AND NO DUST COVERS	5	5
296-010	PRIMARY CONNECTOR/RECEPTACLE WIRED FOR SEPARATE STOP/TURN, ABS CENTER PIN POWERED THROUGH IGNITION		
303-025	SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME		
Nheelbase & Fram	0		
545-442	4425MM (174 INCH) WHEELBASE		

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis

02/02/2024 8:16 AM

Page 8 of 22

Prepared by: Eric Schaltz FREIGHTLINER OF GRAND RAPIDS 5285 CLAY AVENUE S.W. WYOMING, MI 49548 Phone: 616-531-6600

		Welght	Weight
Data Code	Description	Front	Rear
546-106	13.0MM X 87.0MM X 311.0MM STEEL FRAME (0.51X3.43X12.24 INCH) 120 KSI		410
552-021	1275MM (50 INCH) REAR FRAME OVERHANG		
55W-004	FRAME OVERHANG RANGE: 41 INCH TO 50 INCH		-40
549-002	24 INCH INTEGRAL FRONT FRAME EXTENSION	120	
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA): 109.06 in		
AE4-99D	CALC'D FRAME LENGTH - OVERALL: 293.35 in		
ZF1-99D	FRAME HEIGHT TOP FRONT UNLADEN: 44.11 in		
ZF2-99D	FRAME HEIGHT TOP FRONT LADEN: 41.1 in		
ZF3-99D	FRAME HEIGHT TOP REAR UNLADEN: 42.62 in		
ZF4-99D	FRAME HEIGHT TOP REAR LADEN: 28.68 in		
553-001	SQUARE END OF FRAME		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
561-015	STANDARD CAST ALUMINUM CROSSMEMBER BACK OF TRANSMISSION		
562-063	STANDARD CAST ALUMINUM MIDSHIP		
572-078	HEAVY DUTY REAR C-CHANNEL CROSSMEMBER, NON-TOWING		70
565-001	STANDARD SUSPENSION CROSSMEMBER		20
568-015	HEAVY DUTY REAR SUSPENSION CROSSMEMBER		30
Chassis Equipment			
025-003	POLISHED ALUMINUM DIAMOND PLATE WST EQUIPMENT COVERS		
556-800	TEMPORARY STEEL BUMPER	-40	
558-998	NO FRONT TOW HOOKS	-15	
574-998	NO LICENSE PLATE MOUNTING		
551-034	CLASS 10.9 THREADED METRIC FASTENERS		
44Z-002	EXTERIOR HARNESSES WRAPPED IN ABRASION TAPE		
924-007	LEFT HAND SIDE HEAVY DUTY BRACKETS REQUIRED		
928-007	RIGHT HAND SIDE HEAVY DUTY BRACKETS REQUIRED		
Fuel Tanks			
204-151	60 GALLON/227 LITER ALUMINUM FUEL TANK - LH	-5	annen an
218-006	25 INCH DIAMETER FUEL TANK(S)		

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis

02/02/2024 8:16 AM

Page 9 of 22

Prepared for: City of Douglas 86 W Center Street Douglas, MI 49406 Phone: 269-857-2763 Prepared by Eric Schaltz FREIGHTLINER OF GRAND RAPIDS 5285 CLAY AVENUE S.W. WYOMING, MI 49548 Phone: 616-531-6600

	Data Code	Description	Weight Front	Weight Rear	
	215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED	FIOIIL	Rear	
		BANDS			
	212-007	FUEL TANK(S) FORWARD			
	664-001	PLAIN STEP FINISH			
	205-001	FUEL TANK CAP(S)			
	216-020	EQUIFLO INBOARD FUEL SYSTEM			
	202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE			
Tires					
	093-2CM	MICHELIN X WORKS XDY 315/80R22.5 20 PLY RADIAL FRONT TIRES	116		
	094-17X	MICHELIN X MULTI D+ 11R22.5 16 PLY RADIAL REAR TIRES		60	
Wheels	3				
	502-664	ALCOA ULTRA ONE 89U63X 22.5X9.00 10-HUB PILOT 3.12 INSET 10-HD ALUMINUM FRONT WHEELS	-44		
	505-766	ALCOA ULA18X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS		-124	
	524-022	POLISHED DISC SIDE FRONT WHEELS WITH DURA-BRIGHT FINISH			
	525-023	POLISHED OUTER (DISHED SIDE) REAR WHEELS WITH OUTER ONLY DURA-BRIGHT FINISH			
	496-011	FRONT WHEEL MOUNTING NUTS			
	497-011	REAR WHEEL MOUNTING NUTS			
	498-011	NYLON WHEEL GUARDS FRONT AND REAR ALL INTERFACES			
Cab Ex	terior				
	829-053	111.6 INCH BBC CONVENTIONAL ALUMINUM CAB			
	82A-028	STAINLESS STEEL CAB ACCENT MOLDING			
	667-001	FRONT FENDERS			
	754-017	BOLT-ON MOLDED FLEXIBLE FENDER EXTENSIONS	10		
	678-066	INTERIOR GRAB HANDLES WITH ADDED LOWER LH AND RH A PILLAR GRAB HANDLES AND LH AND RH EXTERIOR NON-SLIP GRAB HANDLES			
	65X-010	BRIGHT HOOD MOUNTED AIR INTAKE GRILLE, BLACK SCREEN, WITH LED ACCENT LIGHTS			

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis

02/02/2024 8:16 AM

Page 10 of 22

Prepared by Eric Schaltz FREIGHTLINER OF GRAND RAPIDS 5285 CLAY AVENUE S.W. WYOMING, MI 49548 Phone: 616-531-6600

	Data Code	Description	Weight Front	Weight Rear
	640-016	X-SERIES STEEL REINFORCED ALUMINUM CAB	11011	17001
	644-048	X-SERIES VOCATIONAL HOOD		
	67U-001	HOOD OPENING ASSIST WITH LOCKING STRUT		
	652-016	WESTERN STAR NAMEPLATES		
	727-012	DUAL HADLEY SD-978 26 INCH RECTANGULAR AIR HORNS		
	726-001	SINGLE ELECTRIC HORN		
	327-010	SWITCH AND WIRING WITH STAINLESS STEEL BRACKETS MOUNTED OUTBOARD ROOF FOR (2) CUSTOMER FURNISHED BEACONS		
	312-095	DUAL STAGE INTELLIGENT LED HEADLIGHTS WITH HEATED LENS SYSTEM		
	302-073	VISOR MOUNTED LED MARKER LIGHTS		
	314-824	WIRING AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LAMPS WITH DUAL CONNECTIONS AT BUMPER		
	311-001	DAYTIME RUNNING LIGHTS		
	294-107	INTEGRAL LED STOP/TAIL/BACKUP LIGHTS WITH 7 EXTRA FEET OF WIRE MOUNTED END OF FRAME		5
	300-061	LED REAR FACING TURN SIGNAL LAMPS IN CONVEX MIRROR LENS IN ADDITION TO STANDARD	2	
	744-104	C-BAR MIRROR SYSTEM WITH DUAL HEATED MIRRORS WITH INTEGRAL HEATED CONVEX, DUAL REMOTE, TURN SIGNAL, STAINLESS STEEL BACK COVER, AND BRIGHT C-BAR	20	
	796-001	102 INCH EQUIPMENT WIDTH		
	743-209	LH AND RH CONVEX MIRRORS INTEGRAL WITH PRIMARY MIRRORS		
	74A-001	RH DOWN VIEW MIRROR		
	729-001	STANDARD SIDE/REAR REFLECTORS		
	677-100	POLISHED ALUMINUM DIAMOND PLATE WST AFTERTREATMENT SYSTEM COVER		
	764-020	STAINLESS STEEL EXTERIOR SUN VISOR WITH INTEGRAL MARKER LIGHTS	16	
	768-064	SINGLE SOLAR TINTED REAR WINDOW, (1) 31 INCH X 20 INCH		
	663-019	1-PIECE ROPED-IN SOLAR GREEN GLASS WINDSHIELD		
	659-016	1.5 GALLON WINDSHIELD WASHER RESERVOIR MOUNTED UNDER CAB WITH REMOTE FILL		
5.0000000000000000000000000000000000000	DANGER SANGER SEED AND A SANGER SANGER AND A SANGER		all the early with the feature of the contract of the early	tive survivation in entitle and the distriction of the second of the experience of the contract of the contrac

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis

Cab Interior

02/02/2024 8:16 AM

Page 11 of 22



Prepared by Eric Schaltz FREIGHTLINER OF GRAND RAPIDS 5285 CLAY AVENUE S.W. WYOMING, MI 49548 Phone: 616-531-6600

	Data Code	Description	Weight Front	Weight Rear
-	055-015	X-SERIES BASE INTERIOR TRIM LEVEL PACKAGE	TIOIL	Nea
	707-1C3	CHARCOAL BLACK VINYL BASE LEVEL INTERIOR		
	70K-016	CARBON WITH BASE BLACK ACCENT		
	772-035	BLACK MATS WITH ADDED FLOOR HEAT AND NOISE INSULATION		
	785-033	(1) DUAL USB CHARGING OUTLET, (1) LIGHTER OUTLET AND ASH TRAY		
	691-001	FORWARD ROOF MOUNTED CONSOLE		
	693-019	LH AND RH DOOR STORAGE POCKETS INTEGRATED INTO MOLDED DOOR PANELS		
	741-015	(2) COAT HOOKS ON BACKWALL OF CAB		
	738-021	DIGITAL ALARM CLOCK IN DRIVER DISPLAY		
	720-072	2-1/2 LB. FIRE EXTINGUISHER SHIPPED LOOSE IN CAB	5	
	170-045	STANDARD HEATER PLUMBING WITH BALL SHUTOFF VALVES AT SUPPLY LINES ONLY		
	698-001	RADIATOR MOUNTED AIR CONDITIONER CONDENSER		
	739-034	PREMIUM INSULATION		
	324-1B2	PREMIUM LED CAB LIGHTING		
	787-004	REMOTE KEYLESS ENTRY AND 2 TRANSMITTERS		
	657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
	78G-004	KEY QUANTITY OF 4		
	655-028	LH AND RH ELECTRIC DOOR LOCKS WITH AUTO UNLOCK FEATURE WHEN DOOR IS SET FROM OPEN TO CLOSED POSITION		
	64C-002	BRIGHT DOOR HANDLES		
	722-002	TRIANGULAR REFLECTORS WITHOUT FLARES	10	
	756-1J6	PREMIUM 2.0 HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 2 AIR LUMBAR, INTEGRATED CUSHION EXTENSION, TILT AND ADJUSTABLE SHOCK	20	
	760-294	BATTERY BOX MID BACK NON SUSPENSION PASSENGER SEAT		
	759-007	DUAL DRIVER SEAT ARMRESTS, NO PASSENGER SEAT ARMRESTS		
	758-135	BLACK MORDURA CLOTH DRIVER SEAT COVER WITH EMBROIDERED LOGO		
	761-138	BLACK MORDURA CLOTH PASSENGER SEAT COVER WITH NO LOGO		

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis 02/02/2024 8:16 AM

Page 12 of 22



Prepared for: City of Douglas 86 W Center Street Douglas, MI 49406 Phone: 269-857-2763 Prepared by Eric Schaltz FREIGHTLINER OF GRAND RAPIDS 5285 CLAY AVENUE S.W. WYOMING, MI 49548 Phone: 616-531-6600

	Data Code	Description	Weight Front	Weight Rear
***************************************	763-1AB	3 POINT HIGH VISIBILITY ORANGE ADJUSTABE D-RING RETRACTOR DRIVER AND FIXED D-RNG RETRACTOR PASSENGER SEAT BELTS		
	532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN		
	540-044	4-SPOKE 18 INCH (450MM) BLACK STEERING WHEEL WITH SWITCHES		
	765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		
Instrun	nents & Conf	rols		
	185-004	STANDARD FOOT PEDAL SYSTEM		
	106-002	ELECTRONIC ACCELERATOR CONTROL		
	87L-001	ENGINE REMOTE INTERFACE WITH PARK BRAKE INTERLOCK		
	870-001	BLACK GAUGE BEZELS		
	734-018	STANDARD CENTER INSTRUMENT PANEL		
	840-001	DUAL NEEDLE PRIMARY AND SECONDARY AIR PRESSURE GAUGE		
	198-002	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS		
	721-001	97 DB BACKUP ALARM		3
	149-015	ELECTRONIC CRUISE CONTROL WITH CONTROLS ON STEERING WHEEL SPOKES		
	156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
	811-044	PREMIUM INSTRUMENT CLUSTER WITH 5.0 INCH TFT COLOR DISPLAY		
	81B-003	DIGITAL PANEL LAMP DIMMER SWITCH IN DRIVER DISPLAY		
	160-045	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR WITH DUST CAP LOCATED BELOW LH DASH		
	844-001	2 INCH ELECTRIC FUEL GAUGE		
	148-074	ENGINE REMOTE INTERFACE NOT CONFIGURED		
	856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
	854-998	NO ENGINE OIL TEMPERATURE GAUGE		
	852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
	864-022	DIGITAL TRANSMISSION OIL TEMPERATURE IN DRIVER DISPLAY		

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis

02/02/2024 8:16 AM

Page 13 of 22

Prepared for: City of Douglas 86 W Center Street Douglas, MI 49406 Phone: 269-857-2763 Prepared by Eric Schaltz FREIGHTLINER OF GRAND RAPIDS 5285 CLAY AVENUE S.W. WYOMING, MI 49548 Phone: 616-531-6600

Data Code	Description	Weight Front	Weight Rear	
867-004	ELECTRONIC OUTSIDE TEMPERATURE SENSOR DISPLAY IN DRIVER MESSAGE CENTER			
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY			
372-123	PTO CONTROLS FOR ENHANCED VEHICLE ELECTRIC/ELECTRONIC ARCHITECTURE			
736-998	NO OBSTACLE DETECTION SYSTEM			
73K-998	NO SIDE OBJECT DETECTION SYSTEM			
72J-998	NO DR ASSIST SYSTEM			
49B-998	NO VEHICLE STABILITY ADVISOR OR CONTROL			
73B-998	NO LANE DEPARTURE WARNING SYSTEM			
35M-010	QUICKFIT PROGRAMMABLE INTERFACE MODULE	10		
6TS-008	(2) TMC RP1226 ACCESSORY CONNECTORS: (1) LOCATED BEHIND PASSENGER SIDE REMOVABLE DASH PANEL (1) CENTER OF OVERHEAD CONSOLE			
746-135	AM/FM/WB WORLD TUNER RADIO WITH SIRIUSXM, BLUETOOTH, IPOD INTERFACE, USB AND AUXILIARY INPUTS, J1939			
747-001	DASH MOUNTED RADIO			
750-041	STANDARD SPEAKER SYSTEM			
753-998	NO AM/FM RADIO ANTENNA			
748-006	POWER AND GROUND WIRING PROVISION OVERHEAD			
749-001	ROOF/OVERHEAD CONSOLE CB RADIO PROVISION			
751-001	SINGLE REMOTE SPEAKER WITH LEAD FOR 2- WAY RADIO			
752-004	SINGLE FIBERGLASS LH MIRROR MOUNTED CB ANTENNA WITH BRACKET AND LEAD			
75W-001	HEADLINER MULTI-BAND ANTENNA: AM/FM/WEATHERBAND, WIFI/BLUETOOTH, GNSS/GPS			
78C-003	INTEROPERABLE SDAR ANTENNA			
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER			
812-032	ELECTRONIC 2500 RPM TACHOMETER			
813-1C8	DETROIT CONNECT PLATFORM HARDWARE			
8D1-305	5 YEARS DAIMLER CONNECTIVITY BASE PACKAGE (FEATURES VARY BY MODEL) POWERED BY DETROIT CONNECT			

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis

02/02/2024 8:16 AM

Page 14 of 22

Prepared by
Eric Schaltz
FREIGHTLINER OF GRAND
RAPIDS
5285 CLAY AVENUE S.W.
WYOMING, MI 49548
Phone: 616-531-6600

	Data Code	Description	Weight Front	Weight Rear
	162-002	IGNITION SWITCH CONTROLLED ENGINE STOP		
	329-117	FOUR EXTRA HARDWIRED SWITCHES IN DASH, ROUTE TO BETWEEN SEATS, CAPPED		
	4C1-005	HARDWIRE SWITCH #1,ON/OFF MOMENTARY, 20 AMPS IGNITION POWER		
	4C2-026	HARDWIRE SWITCH #2, ON/OFF LATCHING, 10 AMPS BATTERY POWER		
	4C3-017	HARDWIRE SWITCH #3,ON/OFF LATCHING, 10 AMPS BATTERY POWER		
	4C4-005	HARDWIRE SWITCH #4,ON/OFF MOMENTARY, 20 AMPS IGNITION POWER		
	81Y-005	PRE-TRIP INSPECTION FEATURE FOR EXTERIOR LAMPS ONLY		
	482-001	BW TRACTOR PROTECTION VALVE		
	883-001	TRAILER HAND CONTROL BRAKE VALVE	2	
	842-006	DIGITAL TURBO AIR PRESSURE IN DRIVER DISPLAY		
	836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
	304-030	ROTARY HEADLAMP SWITCH, MARKER LIGHTS/HEADLIGHTS SWITCH WITH PULL OUT FOR OPTIONAL FOG/ROAD LAMPS		
	882-021	TWO VALVE PARKING BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR		
	299-020	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, HEADLAMP FLASH, WASH/WIPE/INTERMITTENT		
	48H-003	QUICKFIT POWERTRAIN INTERFACE CONNECTOR UNDER CAB WITH CAPS		
	48C-003	QUICKFIT PROGRAMMABLE INTERFACE CONNECTOR(S) UNDER CAB WITH CAP		
Design				
	065-000	PAINT: ONE SOLID COLOR		
Color				
	980-2L4	CAB COLOR A: L2225EY CANDY APPLE RED ELITE EY		
	986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT		
Certific	ation / Com	pliance		
	996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES		

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis

CABS AND GLIDER KITS

02/02/2024 8:16 AM

Page 15 of 22



Prepared for: City of Douglas 86 W Center Street Douglas, MI 49406 Phone: 269-857-2763

Prepared by:
Eric Schaltz
FREIGHTLINER OF GRAND
RAPIDS
5285 CLAY AVENUE S.W.
WYOMING, MI 49548
Phone: 616-531-6600

Data Code	Description	Weight Front	Welght Rear
Sales Programs			
PMY-3X2	STARQUOTE 47X/49X SALES PROGRA	MM	
	TOTAL VEHICL	E SUMMARY	Y

Weight Summary			
·	Weight	Weight	Total
	Front	Rear	Weight
Factory Weight ⁺	8506 lbs	4572 lbs	13078 lbs
Total Weight ⁺	8506 lbs	4572 lbs	13078 lbs

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis 02/02/2024 8:16 AM

Page 16 of 22

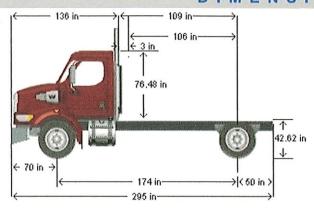
⁽⁺⁾ Weights shown are estimates only.

If weight is critical, contact Customer Application Engineering.

^(***) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.

Prepared for: City of Douglas 86 W Center Street Douglas, MI 49406 Phone: 269-857-2763 Prepared by Eric Schaltz FREIGHTLINER OF GRAND RAPIDS 5285 CLAY AVENUE S.W. WYOMING, MI 49548 Phone: 616-531-6600

DIMENSIONS



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model	
Wheelbase (545)	
Rear Frame Overhang (552)	1275MM (50 INCH) REAR FRAME OVERHANG
Fifth Wheel (578)	NO FIFTH WHEEL
Mounting Location (577)	
Maximum Forward Position (in)	0
Maximum Rearward Position (in)	0
Amount of Slide Travel (in)	0
Slide Increment (in)	0
Desired Slide Position (in)	
Cab Size (829)	
Sleeper (682)	NO SLEEPER BOX/SLEEPERCAB
Exhaust System (016)RAISED RH OUTBOARD UNDER STEP M ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	OUNTED HORIZONTAL AFTERTREATMENT SYSTEM

TABLE SUMMARY - DIMENSIONS

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis

Prepared by Eric Schaltz FREIGHTLINER OF GRAND RAPIDS 5285 CLAY AVENUE S.W. WYOMING, MI 49548 Phone: 616-531-6600

Dimensions	Inches
Bumper to Back of Cab (BBC)	135.6
Bumper to Centerline of Front Axle (BA)	70.5
Front Axle to Back of Cab (AC)	65.2
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	109.1
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	106.1
Back of Cab Protrusions (Exhaust/Intake) (CP)	2.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	159.3
Cab Height (CH)	76.5
Wheelbase (WB)	174.2
Frame Overhang (OH)	50.2
Overall Frame Length	293.3
Overall Length (OAL)	294.9
Rear Axle Spacing	0.0
Unladen Frame Height at Centerline of Rear Axle	42.6

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis

Prepared for: City of Douglas 86 W Center Street Douglas, MI 49406 Phone: 269-857-2763 Prepared by Eric Schaltz FREIGHTLINER OF GRAND RAPIDS 5285 CLAY AVENUE S.W. WYOMING, MI 49548 Phone: 616-531-6600

GVWR

VEHICLE SPECIFICATIONS SUMMARY - GVWR

viodei	478
	111.6 INCH BBC CONVENTIONAL ALUMINUM CAE
Expected Front Axle(s) Load (lbs)	
Expected Pusher Axle(s) Load (lbs)	
Expected Rear Axle(s) Load (lbs)	23000.0
Expected Tag Axle(s) Load (lbs)	
Expected GVW (lbs)	
	MFS-16-143A 16,000# FL1 71.5 INCH KPI/3.74 INCH DROP SINGLE FRONT AXLE
	16,000# FLAT LEAF FRONT SUSPENSION
	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS
	ONE 89U63X 22.5X9.00 10-HUB PILOT 3.12 INSET 10-HD ALUMINUM FRONT WHEELS
	MICHELIN X WORKS XDY 315/80R22.5 20 PLY RADIAL FRONT TIRES
	5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
	SINGLE HIGH CAPACITY POWER STEERING GEAR, BENDIX, 14.6-18k
	RS-23-160 23,000# R-SERIES SINGLE REAR AXLE
	26,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD
	CONMET PRESET PLUS PREMIUM IRON REAR HUBS
	ALCOA ULA18X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS
Rear Tires (094)	MICHELIN X MULTI D+ 11R22.5 16 PLY RADIAL REAR TIRES
SHOES	Q+ CAST SPIDER HEAVY DUTY CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED
	NO PUSHER OR TAG AXLE
Pusher / Tag Suspension (626)	NO PUSHER OR TAG SUSPENSION
	NO PUSHER OR TAG HUBS
	NO PUSHER/TAG DISC WHEELS
Pusher / Tag Tires (095)	NO PUSHER/TAG TIRES
Pusher / Tag Brakes (456)	NO PUSHER/TAG BRAKES

TABLE SUMMARY - GVWR

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis

Prepared for: City of Douglas 86 W Center Street Douglas, MI 49406 Phone: 269-857-2763 Prepared by
Eric Schaltz
FREIGHTLINER OF GRAND
RAPIDS
5285 CLAY AVENUE S.W.
WYOMING, MI 49548
Phone: 616-531-6600

	Front	Rear
	Axle Component Weight Ratings	
Axles	16000	23000
Suspension	16000	26000
Hubs	23000	26000
Brakes	20000	23000
Wheels	20000	29600
Tires	18180	24020
Power Steering	18000	N/A
GAWR (per axle)	16000	23000
GAWR (per axle system)	16000	23000
Expected Load (per axle system)	16000	23000
GVWR due to Frame	90000	
GVWR due to Transmission	80000	
	Vehicle GVWR Summary	
Calculated GVWR	39000	
Expected GVWR	39000	
	All weights displayed in pounds	

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis

Item 3B.

Prepared for: City of Douglas 86 W Center Street Douglas, MI 49406 Phone: 269-857-2763 Prepared by Eric Schaltz FREIGHTLINER OF GRAND RAPIDS 5285 CLAY AVENUE S.W. WYOMING, MI 49548 Phone: 616-531-6600

FRAME RBM

VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM

Wheelbase (545)	4425MM (174 INCH) WHEELBASE
Frame Rails (546)	13.0MM X 87.0MM X 311.0MM STEEL FRAME (0.51X3.43X12.24 INCH) 120 KSI(546)
Yield Strength (psi)	
	NO INNER FRAME REINFORCEMENT
Outer Frame Reinforcement (548)	

TABLE SUMMARY - FRAME RBM

Item	Description / Value
Wheelbase	4425MM (174 INCH) WHEELBASE
Frame	13.0MM X 87.0MM X 311.0MM STEEL FRAME (0.51X3.43X12.24 INCH) 120 KSI
Inner Frame Reinforcement	NO INNER FRAME REINFORCEMENT
Outer Frame Reninforcement	NO OUTER FRAME REINFORCEMENT
Yield Strength (psi)	120000
Section Modulus - per rail (cu. in.)	26.81
Frame RBM - per rail (lbf-in)	3216626

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis 02/02/2024 8:16 AM

Item 3B.

Prepared for: City of Douglas 86 W Center Street Douglas, MI 49406 Phone: 269-857-2763 Prepared by Eric Schaltz FREIGHTLINER OF GRAND RAPIDS 5285 CLAY AVENUE S.W. WYOMING, MI 49548 Phone: 616-531-6600

QUOTATION

WESTERN STAR 47X

SET BACK AXLE - TRUCK CUM L9 370 HP @ 2100 RPM; 2100 GOV RPM, 1250 LB-FT @ 1200 RPM

ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION

RS-23-160 23,000# R-SERIES SINGLE REAR AXLE 26,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD MFS-16-143A 16,000# FL1 71.5 INCH KPI/3.74 INCH DROP SINGLE FRONT AXLE 16,000# FLAT LEAF FRONT SUSPENSION 111.6 INCH BBC CONVENTIONAL ALUMINUM CAB 4425MM (174 INCH) WHEELBASE 13.0MM X 87.0MM X 311.0MM STEEL FRAME (0.51X3.43X12.24 INCH) 120 KSI 1275MM (50 INCH) REAR FRAME OVERHANG

			PER UNIT	TOTAL
VEHICLE PRICE	TOTAL # OF UNITS (1)	\$	130,713	\$ 130,713
EXTENDED WARRANTY		\$	0	\$ 0
DEALER INSTALLED OPTIONS		\$	0	\$ 0
CUSTOMER PRICE BEFORE TAX		\$	130,713	\$ 130,713
TAXES AND FEES				
TAXES AND FEES		\$	0	\$ 0
OTHER CHARGES		\$	0	\$ 0
TRADE-IN				
TRADE-IN ALLOWANCE		\$	(0)	\$ (0)
BALANCE DUE	(LOCAL CURRENCY)	\$	130,713	\$ 130,713
COMMENTS:				
Projected delivery on/ provided the ord	er is received before _	_//	<u></u> .	
APPROVAL:				
Please indicate your acceptance of this quotation by s	igning below:			
Customer: X	Date:/ _	_1		

Daimler Truck Financial

Financing that works for you.

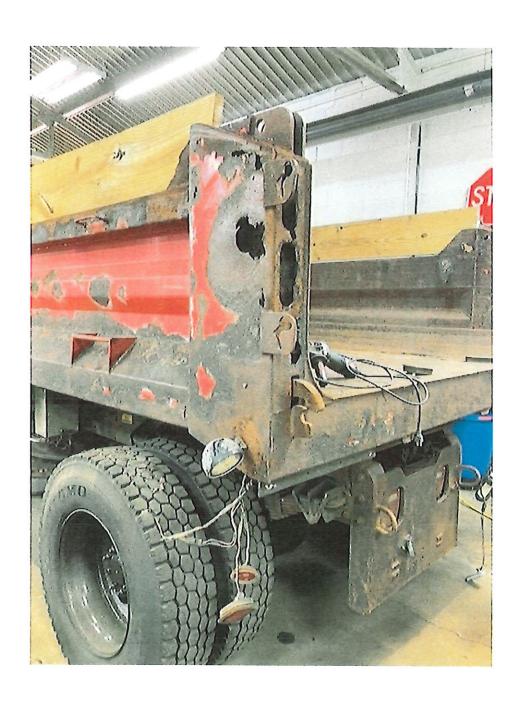
See your local dealer for a competitive quote from Daimler Truck Financial, or contact us at Information@dtfoffers.com.

Daimler Truck Financial offers a variety of finance, lease and insurance solutions to fit your business needs. For more information about our products and services, visit our website at www.daimler-truckfinancial.com.

Application Version 11.9.502 Data Version PRL-28X.027 City of Douglas 47X Plow Chassis

02/02/2024 8:16 AM

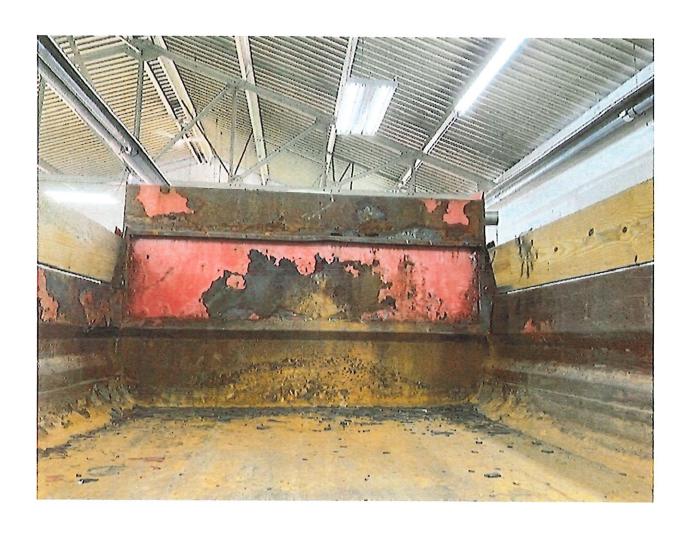
Page 22 of 22









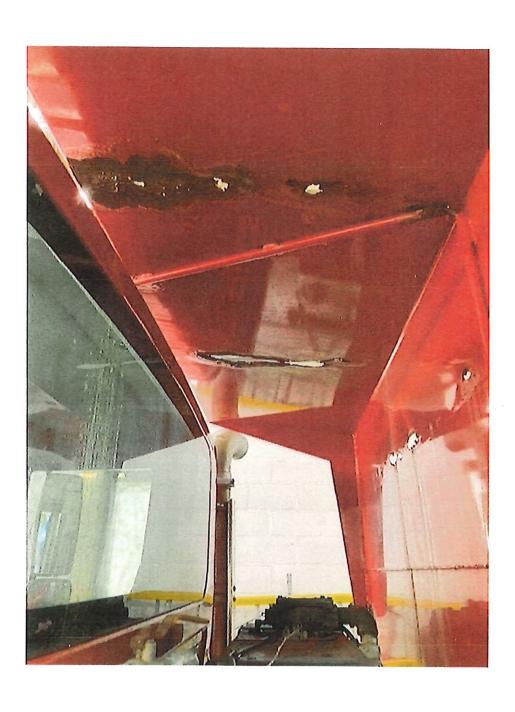






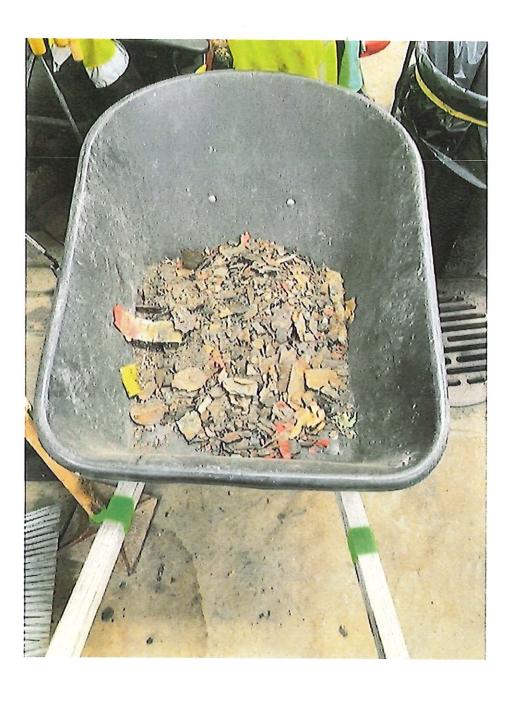






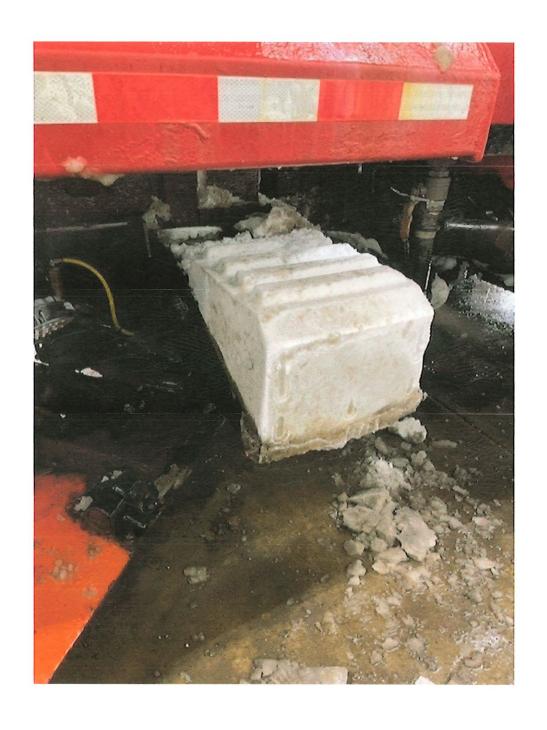


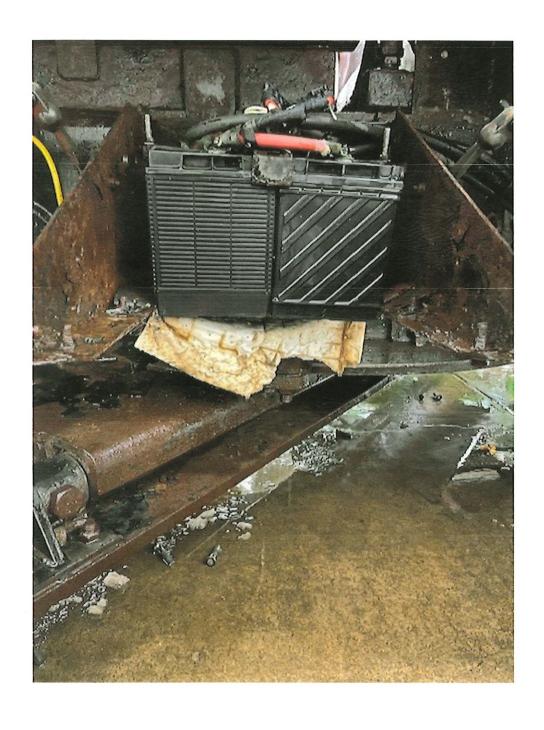


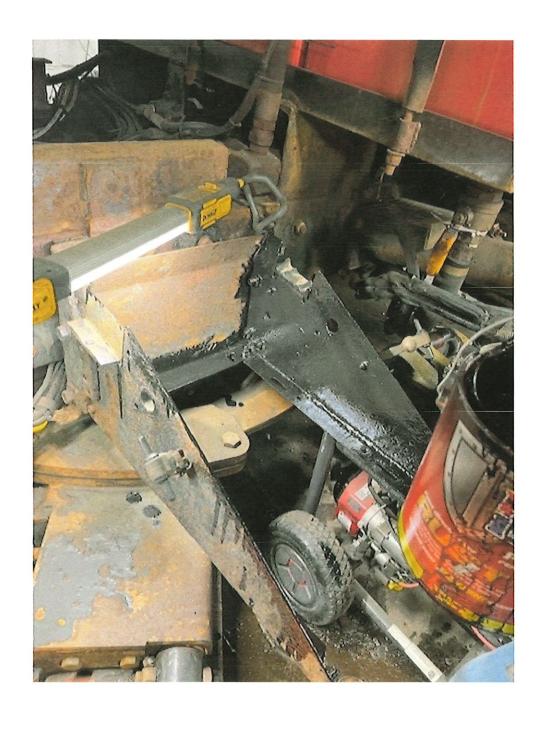


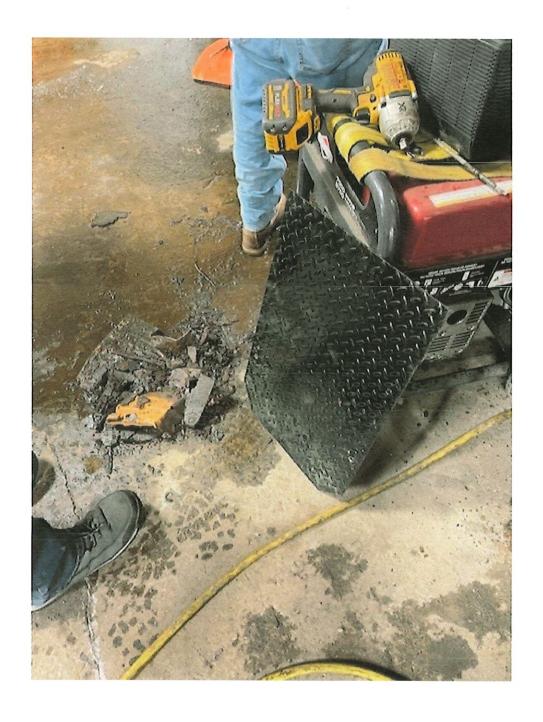
















FROMFR









Quote Id: 30328575

	2024 M.K. MARTIN LP678	8 - 6' LANDF	PLANE - NA	
Hours: Stock Number	0			Suggested List
Stock Number	•			\$ 6,670.00 Selling Price
				\$ 5,720.00
Code	Description	Qty	Unit	Extended
LP678	72" LANDPLANE W/ HYDRAULIC SCARIFIERS	1	\$ 6,420.00	\$ 6,420.00
	Other Ch	arges		
	Freight	1	\$ 50.00	\$ 50.00
	Setup	1	\$ 200.00	\$ 200.00
	Other Charges Total			\$ 250.00
41	Suggested Price			\$ 6,670.00
	Customer D	iscounts		
	Customer Discounts Total		\$ -950.00	\$ -950.00
Total Selling P	rice	A. 138 75 75 9		\$ 5,720.00

Frontie	r BB5072 - 6 ft. Box Blade - (6 Manually	Adjustable Sca	arifiers)
Hours:				Suggested List
Stock Number:				\$ 1,870.50
				Selling Price
				\$ 1,750.00
Code	Description	Qty	Unit	Extended
1642XF	BB5072 Standard Duty Box Blade	1	\$ 1,601.00	\$ 1,601.00
	Other Ch	arges		
	Freight	1	\$ 149.00	\$ 149.00
	Setup	1	\$ 120.50	\$ 120.50
	Other Charges Total			\$ 269.50
	Suggested Price			\$ 1,870.50
	Customer D	iscounts		
	Customer Discounts Total		\$ -120.50	\$ -120.50
Total Selling Pr	rice			\$ 1,750.00

SP250096LF HLA 8' SNOW PUSHER W/ Steel Back Drag Edge.





Hours:	0	,		Suggested List
Stock Number:				\$ 5,448.50
				Selling Price
				\$ 5,140.00
Code	Description	Qty	Unit	Extended
SP250096LF	8' 2500 SNOW PUSHER	1	\$ 2,555.00	\$ 2,555.00
	Standard Option	ns - Per Unit		
BOKSP23BO50 0	2500/3500 BOLT ON FRAME	1	\$ 535.00	\$ 535.00
FRT	Destination Charge	1	\$ 100.00	\$ 100.00
SP250096BDKS	96" 2500 SERIES BACK DRAG W/ STEEL EDGE	1	\$ 1,415.00	\$ 1,415.00
	Standard Options Total			\$ 2,050.00
	Other Ch	arges		
	Setup	1	\$ 843.50	\$ 843.50
	Other Charges Total			\$ 843.50
	Suggested Price			\$ 5,448.50
	Customer D	iscounts		
	Customer Discounts Total		\$ -308.50	\$ - 308.50
Total Selling Pri	ice			\$ 5,140.00

S	now Tires (Order Rims & Mou	nt Good Y	ear Snow Tires	s)
Hours:	0		;	Suggested List
Stock Number:				\$ 6,449.22
				Selling Price
				\$ 6,361.22
Code	Description	Qty	Unit	Extended
SNOW TIRES	Snow Tires (set - front & rear) & Loaded	1	\$ 0.00	\$ 0.00
	Standard Options	s - Per Unit		
SNOW TIRES	Snow Tires (set - front & rear) & Loaded	1	\$ 0.00	\$ 0.00
	Standard Options Total			\$ 0.00
	Dealer Attach	ıments		
LVA12607	Wheel - WHEEL, STEEL DISK & W14L-20 RIM	2	\$ 581.19	\$ 1,162.38
AT25226	Tire Valve Stem - STEM, TIRE VALVE	2	\$ 10.92	\$ 21.84
LVA16435	Wheel - WHEEL 15X7JA GKN 1.5 INSET	2	\$ 231.05	\$ 462.10
AM30347	Tire Valve Stem - TIRE VALVE STEM, TIRE VALVE W/CAP,T	2	\$ 7.45	\$ 14.90



=					
	BALLAST	LOAD REAR TIRES S/C	1	\$ 500.00	\$ 500.00
	320/85R20	320/85R20 GoodYear Snow Tires	2	\$ 600.00	\$ 1,200.00
1	27/8.5-15	27/8.5-15 GoodYear Snow Tires	12	\$ 250.00	\$ 3,000.00
		Dealer Attachments Total			\$ 6,361.22
100000		Other C	Charges		
		Deliveryy	1	\$ 88.00	\$ 88.00
		Other Charges Total			\$ 88.00
Management		Suggested Price			\$ 6,449.22
		Customer	Discounts		
		Customer Discounts Total		\$ -88.00	\$ -88.00
4	Total Selling P	rice			\$ 6,361.22

#70 WEIGHTS W/ FRONT WEIGHT BRACKET FOR BALLAST - (Figuring 4					
	Weights	s)			
Hours:	0		5	Suggested List	
Stock Number	:			\$ 1,415.10	
				Selling Price	
				\$ 1,350.34	
Code	Description	Qty	Unit	Extended	
MISC	MISC	1	\$ 0.00	\$ 0.00	
	Dealer Attachr	nents			
LVU32113	Weight - WEIGHT, WEIGHT, #70 QUIK TATCH	4	\$ 114.40	\$ 457.60	
LVBM19607	Weight Kit - KIT, FRONT WEIGHT BRACKET PIN	1	\$ 60.50	\$ 60.50	
BLV10442	Bracket Kit - BRACKET KIT, KIT, FRONT WEIGHT BRAC	2	\$ 286.00	\$ 572.00	
	Dealer Attachments Total			\$ 1,090.10	
	Other Charg	jes			
	WEIGHT BRACKET & WEIGHT INSTALL	1	\$ 325.00	\$ 325.00	
	Other Charges Total			\$ 325.00	
	Suggested Price			\$ 1,415.10	
	Customer Disc	ounts			
	Customer Discounts Total		\$ -64.76	\$ -64.76	
Total Selling P	rice			\$ 1,350.34	





3	20R Loader w/ Mounting Hardy	ware for A	dditional Trac	tor
lours: Stock Number	:			Suggested Lis \$ 9,065.38 Selling Price
Codo	Description	Otre	11	\$ 8,038.00
Code 1350P	Description 320R Loader	Qty	Unit	Extended
1350P	Standard Options	Dor Unit	\$ 7,385.00	\$ 7,385.00
0202	United States	- Per Unit	\$ 0.00	\$ 0.00
0409		1	\$ 0.00	\$ 0.00
	English	1		
1995	Less Mounting Frame	1	\$ -600.00	\$ -600.00
4312	Hoses and parts for mid-valve connection	1	\$ 0.00	\$ 0.00
5995	Less hood guard	1	\$ -314.00	\$ -314.00
6995	Less ballast box	1	\$ 0.00	\$ 0.00
7020	John Deere™ Compact Utility Tractor (CUT) carrier	1	\$ 0.00	\$ 0.00
8750	Less Bucket	1	\$ -1,029.00	\$ -1,029.00
	Standard Options Total			\$ -1,943.00
	Dealer Attach	nments		
BW15456	Mounting Frame (3R & 3X20 Series Cab Tractors)	2	\$ 645.70	\$ 1,291.40
BW15244	Skid Steer Attachment Carrier	1	\$ 1,086.80	\$ 1,086.80
BW15762	Hose Kit - HOSE KIT, HOSES AND PARTS	1	\$ 396.00	\$ 396.00
KV14216	Hyd. Quick-Connect Coupler - HYD. QUICK-CONNECT COUPLER, COUPLIN	1	\$ 95.80	\$ 95.80
AT430720	Hyd. Quick-Connect Coupler - HYDRAULIC QUICK COUPLER	1	\$ 52.16	\$ 52.16
AT191333	Adapter Fitting - ADAPTER, O-RING	2	\$ 19.11	\$ 38.22
	Dealer Attachments Total			\$ 2,960.38
	Other Char	rges		
	Setup	1	\$ 422.00	\$ 422.00
	3RD FUNCTION HARD LINES & FITTINGS INSTALL	1	\$ 180.75	\$ 180.75
	Loader Mount Install (1 Tractor)	1	\$ 60.25	\$ 60.25
	Other Charges Total			\$ 663.00
	Suggested Price			\$ 9,065.38
	Customer Dis	counts		
	Customer Discounts Total		\$ -1,027.38	\$ -1,027.38
otal Selling F	Price			\$ 8,038.00



66 ir	n. Utility Bucket (20.6 cu. ft.) w	ith Replac	eable Cutting E	Edge
Hours:				Suggested List
Stock Number:	:			\$ 2,102.00
				Selling Price
				\$ 1,775.00
Code	Description	Qty	Unit	Extended
KV24755	66 in. Utility Bucket (20.6 cu. ft.) with Edge	1	\$ 2,102.00	\$ 2,102.00
	Suggested Price			\$ 2,102.00
	Customer Dis	scounts		
	Customer Discounts Total	,	\$ -327.00	\$ -327.00
Total Selling P	rice			\$ 1,775.00



Quote Summary

Prepared For:

City Of Village Of Douglas

Prepared By:

Weerstra Richard GreenMark Equipment, LLC 11483 E Lakewood Boulevard Holland, MI 49424 Phone: 616-396-8132

rweerstra@greenmarkequipment.com

Quote Id: 30328575

Created On: 05 February 2024 **Last Modified On:** 07 February 2024

		Ex	pirat	ion Dat	te:	12 February 2024
Equipment Summary	Suggested List	Selling Price		Qty		Extended
2024 M.K. MARTIN LP678 - 6' LANDPLANE - NA	\$ 6,670.00	\$ 5,720.00	X	1	=	\$ 5,720.00
Frontier BB5072 - 6 ft. Box Blade - (6 Manually Adjustable Scarifiers)	\$ 1,870.50	\$ 1,750.00	X	1	=	\$ 1,750.00
SP250096LF HLA 8' SNOW PUSHER W/ Steel Back Drag Edge.	\$ 5,448.50	\$ 5,140.00	Х	1	=	\$ 5,140.00
Snow Tires (Order Rims & Mount Good Year Snow Tires)	\$ 6,449.22	\$ 6,361.22	Х	1	=	\$ 6,361.22
#70 WEIGHTS W/ FRONT WEIGHT BRACKET FOR BALLAST - (Figuring 4 Weights)	\$ 1,415.10	\$ 1,350.34	Х	1	=	\$ 1,350.34
320R Loader w/ Mounting Hardware for Additional Tractor	\$ 9,065.38	\$ 8,038.00	X	1	=	\$ 8,038.00
66 in. Utility Bucket (20.6 cu. ft.) with Replaceable Cutting Edge	\$ 2,102.00	\$ 1,775.00	Х	1	=	\$ 1,775.00
Equipment Total						\$ 30,134.56
		te Summary				
	5	ipment Total				\$ 30,134.56
	Sub	Total				\$ 30,134.56
		Service Agreem	ent T	ax		\$ 0.00
	Tota	I				\$ 30,134.56
Down Payment					(0.00)	
		tal Applied				(0.00)
	Bala	ince Due				\$ 30,134.56

Salesperson: X__

Accepted By: X_







MIDEAL PRICING

2600 W Salzburg, Freeland, MI 48623			
Phone: (989) 495-9332			
Quote Date:	Quote Good Through:	Requested By:	Customer:
1/26/2024	4/26/2024	Nate	Douglas, MI

Additional Comments: Net 30 Days - 2 year machine and lifetime frame warranty included -90-120 days delivery

Model		Description	Price
T1B-D	4 Ton Transporter - Diesel		\$51,312.41
	12 volt batteries, Triple Wall Constructi	ion, Fully insulated, Automatic Temperature	ψυ1,υ12.41
	Control, VIP, One-piece seamless ceran	nic combustion chamber, conspicuity tape	
	Diamond Tread Plate Hopper Access Plate	atform, Battery charger package	
	Electric Brakes with safety breakaway		
	Tandem axle trailer frame - 2"x6"x1/4"	Tubular steel	
	16" tires - Load Range E		
	Included Options:		
	Single Diesel burner		
	Dump Box		
	Standard frame - 16'		
	Falcon Smart Contol package includes:		
	7 day timer, fuel level gauge, hour met	er, voltmeter, temperature gauge	
)	LED Lighting package includes: Two red stop/tail/turn lights and one g	reen strobe per side, Warning Strobe light, LED	
	night work lights		
	Release agent basket, 3 position tool he	older	
	Additional Options: 24x24 compactor basket Hoist with 12v winch Vibco 3200 Hopper access step Washdown system with hose reel spoils bin with 6" wall additional 3 position tool holder 2 5/16" ball hitch Ingersoll 2475F14G compressor w	rith hose reel	
	Freight to: Douglas, MI		\$400.00
	Total including all options plus freight Plus App	plicable Sales Tax	\$51,712.41
	Acceptance:	Date:	





Product Quotation

Quotation Number: MB328409 Quote Sent Date: Feb 05, 2024

Expiration Date: Mar 06, 2024

Your Bobcat Contact **Mason Brekke**

Phone:

E-mail: mason.brekke@doosan.com

Your Customer Contact

Deliver to CITY OF DOUGLAS

86 CENTER ST DOUGLAS, MI, 49406 **Bobcat Dealer** Jason Lee

Carleton Eq. Bobcat of Grand Rapids, Byron Center, MI

343 100TH STREET SW BYRON CENTER, , 49315 Bill to

NEW GOVERNMENT CUSTOMER

2391333

250 E Beaton Dr

West Fargo, ND, 58078-2656

Item Name	Item Number	Quantity	Price Each	Total
Bobcat TL619	M2770	1	81,893.04	81,893.04
Standard Equipment:				
Attachment Control Device (7 pin)		Hydrostatic Transmission	with 2-Speed & Advan	ced Attachment

Auxiliary Hydraulics w/ Coupler Release Block

Back-up Alarm

Bobcat Standard 5" Display

Bob-Tach Attachment Mounting System

Boom Float Boom Stop

Eco Mode

Enclosed Cab with Heat/Air Conditioning: parking brake; front, rear, and roof washer/wipers; dome light; power port; mechanical suspension seat; retractable seat belt; tilt and telescoping steering; radio ready; Sun Visor;

Fixed Armrest; ACD keypad Front/crab/four-wheel steering

Hitch, Rear Pin Type

Control

Instrumentation: Hour Meter, RPM, System Voltage; Engine Temperature and Fuel Gauges; Warning Lights

LED Work Lights

Lights: Turn Signals; Road Lights (Halogen); Work Lights

Mechanical Suspension Seat Mirrors: Right & Left Side

Reversible cooling fan with manual and automatic control

Right Hand Mirror Rotating Beacon Smart Handling System

Spark Arrestor Exhaust System

Tires: 405/70 20 Wheel Fenders

Automatic Parking Brake with Slope Assist

Warranty: 24 Months or Total of 2000 Hours (Whichever occurs

IIISt)			
	1	3,377.44	3,377.44
7326128	1	2,137.88	2,137.88
7296449	1	351.72	351.72
7294332	1	712.88	712.88
6541518	1	506.92	506.92
7385515	1	8,122.12	8,122.12
7302924	1	170.47	170.47
	M2770-P01-C02 7326128 7296449 7294332 6541518	M2770-P01-C02 1 7326128 1 7296449 1 7294332 1 6541518 1	M2770-P01-C02 1 3,377.44 7326128 1 2,137.88 7296449 1 351.72 7294332 1 712.88 6541518 1 506.92 67385515 1 8,122.12

Engine Block Heater 36 Month/2000 Hour Full Extended	7361247 9974408	1	128.76 1.500.00	128.76 1,500.00
Warranty	Total for Bobcat TL619	1	1,300.00	99,377,38

.619	99,377.38	
Quote Total - USD	99,377.38	
Dealer P.D.I.	350.00	
Freight Charges	2,125.00	
Destination Charges	650.00	
Dealer Assembly Charges	455.00	
Quote Total - USD	102,957.38	

Comment:

*Plus applicable taxes. IF Tax Exempt, please include Tax Exempt Certificate with the order.

*Prices per the Sourcewell Contract #_040319-CEC.

*Sourcewell Member Number (if applicable):

*Orders may be placed with the contract holder or authorized dealer as allowed by the terms and conditions of the contract. *A Copy of all orders must be provided to Heather.Messmer@Doosan.com.

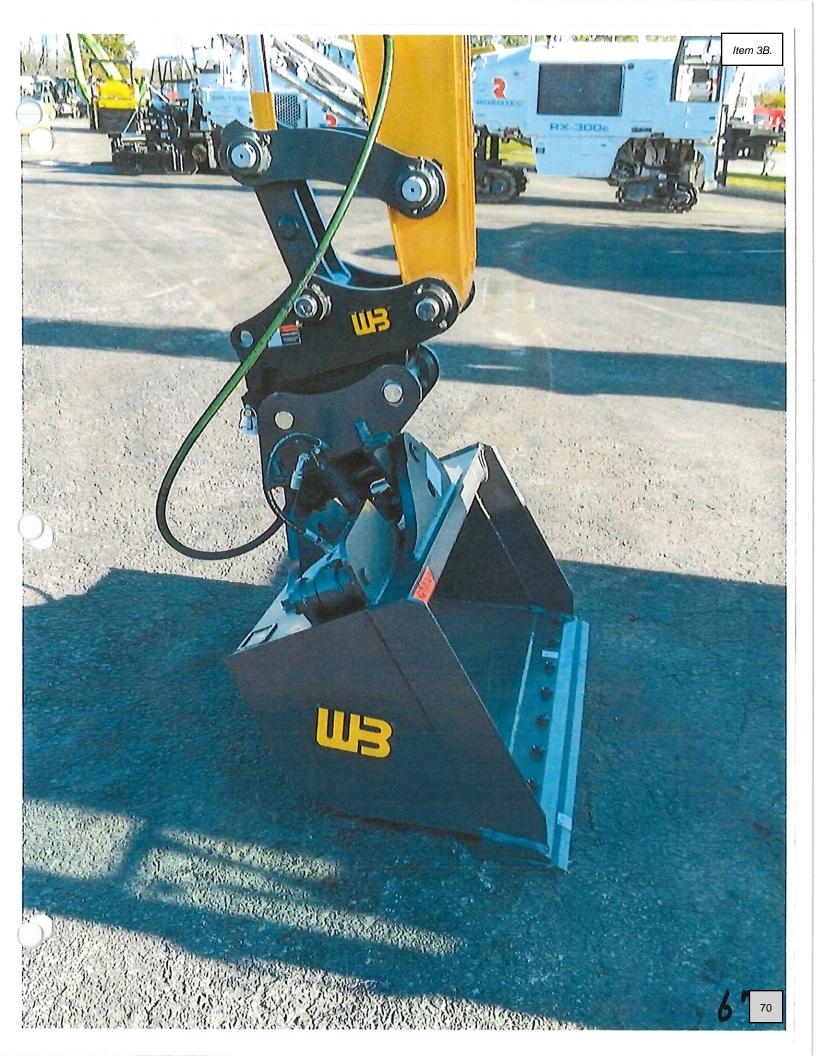
*Contact Holder Information: Clark Equipment Company dba Bobcat Company, Govt Sales, 250 E Beaton Drive, West Fargo, ND 58078. TID# 38-0425350.

^{*}All orders should include 1) Accounts Payable Contact and email address, 2) W9 with correct legal entity name, and 3) Bill to Address.

^{*}Payment Terms: Net 60 Days. Credit cards accepted.

^{*}Remittance address: Clark Equipment Company d/b/a Bobcat Company, P. O. Box 74007382, Chicago, IL 60674-7382

^{*}Questions can be submitted via email to randy.fuss@doosan.com or by phone at: 1-800-965-4232v





8440 Byron Commerce Drive • Byron Center, MI 49315 • Office (616) 878-7450 • Fax (616) 878-7650

December 20, 2022

City Of Douglas DPW 486 Water St. Douglas, MI 49406

We are pleased to quote the following for your consideration:

(1) New Werk-Brau 42" Hydraulic tilting grade bucket

- 42" Width 7.40 cu/ft capacity
- Pins for ECR40
- · Bolt on cutting edge

\$6,840.

9-10 week lead time

Thank you for this opportunity,

Jack La Forge

Compact Equipment Specialist

P: (616) 551-8421

E: Jack.Laforge@altaequipment.com





8440 Byron Commerce Drive • Byron Center, MI 49315 • Office (616) 878-7450 • Fax (616) 878-7650

December 20, 2022

City Of Douglas DPW 486 Water St. Douglas, MI 49406

We are pleased to quote the following for your consideration:

(1) New Bradco 30" Excavator flail mower

- 40MM pins for Volvo ECR40D
- 28.5" cutting width
- 8 blades
- 4" cutting capacity

\$19,000.

Leadtime is currently 8-10 weeks

Thank you for this opportunity,

Jack La Forge

Compact Equipment Specialist

P: (616) 551-8421

E: Jack.Laforge@altaequipment.com

BUCKETS

V50 MULTI-PURPOSE BUCKET (4-IN-1)

Available widths 60", 66" & 72"

Multiple functions including dozing, clamming, leveling, and bottom dumping.



37.0" DEPTH 21.3"

LESS THAN
2400 LB
LOADER OPERATING CAPACITY

- 1, STANDARD WITH CYLINDER GUARDS
- 2. NITROSTEEL® CYLINDER RODS & TEFLON® COATED BUSHINGS ON ALL PIVOTS
- 3,5/8" x 6" REVERSIBLE STEEL BOLT-ON EDGES
- 4.3/4" x 6" WELD-ON EDGE





IMODEL.	MPV60	MPV66	MPV///2	
Width: Overall, Straight / Inside (in.)	61.5 / 59.5	67.5 / 65.5	73.5 / 71.5	
Height: Overall / Bucket / Open (in.)		29.8 / 21.3 / 46.0		
Depth: Overall / Inside (in.)		37.0 / 28.6	2	
Dozer Width (degrees)	59.9	65.9	71.9	
Clam Opening (in.)		33,0		
Thickness: Shell / Hinge Structure (in.)		0.25 / 0.375		
Structural Wear Bars Under Bucket (1/2" x 4")		3		
Cylinder Bore / Stroke (in.)		2.5 / 8.375		
Cylinder Pins / Hinge Pins Diameter (in.)		1.25 / 1.563		
Approximate Weight (lbs)	840	915	960	
Recommended Loader Capacity		Less than 2400 lbs		

Effective 11.01.22 - All information subject to change without notice. | 63



8440 Byron Commerce Drive • Byron Center, MI 49315 • Office (616) 878-7450 • Fax (616) 878-7650

December 20, 2022

City Of Douglas DPW 486 Water St. Douglas, MI 49406

We are pleased to quote the following for your consideration:

(1) New Virnig V50 Multi-Purpose 4-in-1 bucket

- 72" overall width
- · Bolt on cutting edge
- Hose/Coupler kit
- 960 lb. weight

Sell Price- \$7,500.

9-10 week lead time

Thank you for this opportunity,

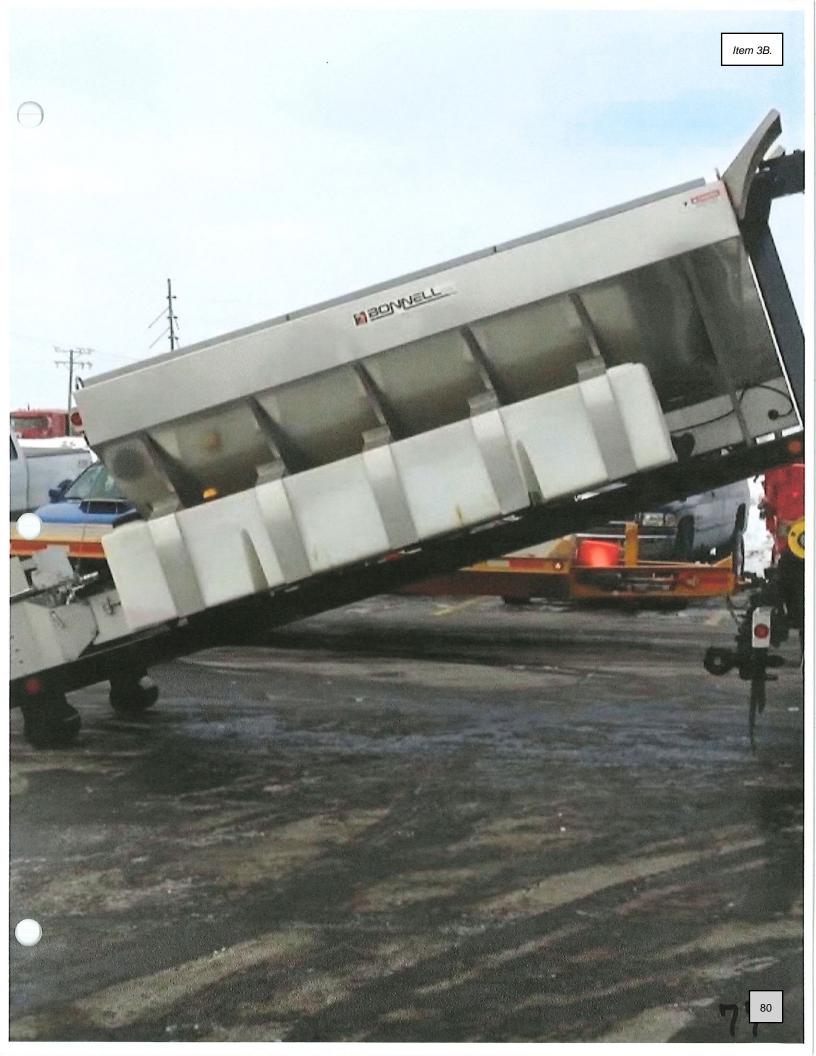
Jack La Forge

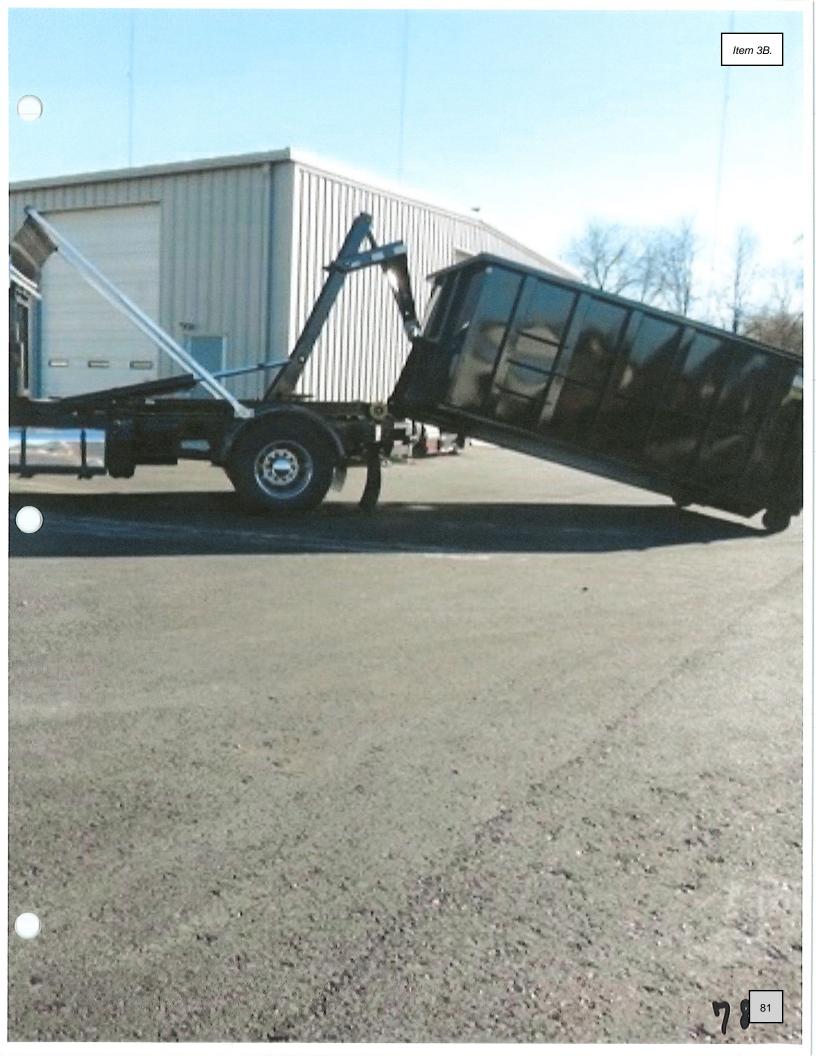
Compact Equipment Specialist

P: (616) 551-8421

E: Jack.Laforge@altaequipment.com







3286 Hanna Lake Ind. Park Dr. Dutton, MI. 49316 Phone 616-698-8215, Fax 616-698-0972 Quote No. DQO004750

Clinton County Road Commission Attn: Marty Olney

Phone: (989)-640-5068 January 31, 2024



State Contract Hyperlink No: 20000000034

Equipment Quotation

Chassis Info: Western Star, 49X Single Axle SwapLoader Truck

Supply and install a single axle hook lift system including the following:

Hook lift system: SwapLoader Model SL-2418 HD

Minimum of 24,000 lbs. dumping capacity and a minimum lifting capacity of 18,000 lbs. with gross weight evenly distributed in and or on container/body

Hooklift shall be able to handle skid-mounted containers/bodies with lengths of 10'-13' Hooklift shall have a minimum of 57-degree dump angle on a 41" truck frame height chassis

Skid-mounted containers/bodies shall be supported with a pair of 6-1/4" minimum diameter outside flanged rollers at rear of hoist, and be adjustable to accommodate bodies/containers with outside subframe rails with widths of 40-1/2" or 41-5/8"

Hooklift operation:

The lift shall adjust weight distribution of the container/body horizontally on the chassis while remaining in the body locks and without lifting the container/body rails off the hoist frame

Hook lift has a dual rear pivot section incorporated into the hoist design to allow for both a true dump truck operation with the container/body secured to the hook lift via body locks during the entire dump cycle, and increased mounting leverage at the beginning of the container lift cycle

Hook lift jib to reach rearward to the A-frame lifting bar by means of double articulating hinge points (dual rear pivot) incorporated into the hoist mechanism

All lift sections shall lock into a common rigid full-length frame to support the body/container when in a dump mode. This must be accomplished by mechanical operated latches, which lock the mast

Includes a jib lock-out valve to prevent jib operation while in a dump mode

Hydraulic cylinders:

All cylinders to be made in the USA

Dump/lift cylinders are double acting, twin cylinders, sized for the unit capacity with dual integral counterbalance valves.

Dump/lift cylinders are 5-1/2" bore, 2-3/4" rod diameter, and 39" stroke

Telescopic jib cylinder shall be double acting, single cylinder, sized for the unit capacity with a single counterbalance valve

Telescopic jib cylinder to be a 4" bore, 2-1/2" rod diameter, and 24" stroke

Hydraulic operating pressure will not exceed 2800 PSI

Mainframe design:

Mainframe of the hoist is constructed of a "Z" rail configuration

3286 Hanna Lake Ind. Park Dr. Dutton, MI. 49316 Phone 616-698-8215, Fax 616-698-0972 Quote No. DOO004750

The "Z" rail mainframe is to be a maximum of 8-1/2" in height, and constructed of 1/4" thick A572 50 KSI steel

Hoist "Z" frame rails to include 6 (3 per side) 11-3/4" x 2-3/4" x 1/2" Nylatron wear pads for container/body support – no metal-to-metal contact shall be allowed

The Nylatron pad will allow the containers/bodies to slide back and forth horizontally on the "Z" rail of the hoist with ease

Jib hook design:

Vertical jib is constructed of an 8" x 8" x 3/8" wall square tube of A500 46 KSI steel Jib hook height is 54" from the bottom of the container/body subframe rails to the bottom of the A-frame lift bar

Hook lift is able to pick up a container/body that rests 21" below the grade that the truck chassis is on (assumes a 41" truck frame height)

Jib hook is designed to secure container/body to hoist without the need for a hook latch mechanism to cover the hook opening

Jib hook to be permanently welded to jib

Pins:

All hook lift pins are constructed of high-strength CFR steel bar

All pinned connections are greaseable to both lubricate the joint, and flush out contaminates **Body locks:**

Hook lift has passive integral slid-through body locks to secure the container/body latch plates to the jook lift in dump and transport positions; to accommodate different length bodies, and to allow for weight distribution changes while remaining in the body locks when in the transport or dump cycle

Hook lift warranty:

The complete mechanism, including hydraulics, will be factory warrantied free of Defects in material and workmanship for a period of forty-eight (48) months On parts, and twelve (12) months on labor from the date of installation

Hook lift is designed and manufactured in the USA

Install Monroe model MS4512 underbody scraper including the following:

Updated center bolt piloted into the hanger board

Two 4" power reverse cylinder with 2" Socatri or Nimet rods

Two 3-1/2" actuating cylinders with 2" Socatri or Nimet rods

All cylinders have poly Pak seals

1" circle with 5" greaseable center bolt

Circle includes a welded-in hardened bushing

1" x 20" x 12' moldboard, 6" cutting edges

2" clevis bosses on power reverse cylinders

Contoured circle clamps with poly type wear pads

Three reinforced moldboard hinges with gussets

3/8" stainless steel pipe and hoses for faster scraper actuation

Hinge shaft is 2.5" cold rolled round stock

Moldboard hinges are constructed of 3/8" wall DOM tubing

Adjustable j-50 relief valve is included

Cushion valve for power reverse circuit is included

3286 Hanna Lake Ind. Park Dr. Dutton, MI. 49316 Phone 616-698-8215, Fax 616-698-0972 Quote No. DQO004750

No grease line kit

Stainless steel piping will be used for plumbing mounted to the hanger board

Bar grating step on streetside

Kennametal moldboard with rotating bits in lieu of standard cutting edge

Install Monroe 7' mid-mount Junior Wing for single axle application including the following:

Moldboard is 7' long, 27" intake height, and 28" discharge height

Captive 3/16" moldboard with 3/8" ribs

Wing is standard powder coat orange

Welding on the moldboard is continuous

Front cross tube with mounting plate

4" x 4" x 3/4" bottom angle, 4" x 10" toe cylinder, 3" x 10" heel cylinder

Safety chain for transport

Para-Glide front wing post is a trailing link design with 12" of lift. The Para-Glide is designed to allow the moldboard to float up 8 to 12" when in the plowing position

Paraglide grease line extension kit

Heavy duty 6" spring cushioned push arm with shear pin

Rear push arm support brace is constructed of 4" x 6" x 1/4" tubing and is supported by both frame rails

Rear wing post to be removeable for summer operations

Sequencing valve for proper operation of the wing, valve has built in checks to prevent drifting when not in use

Sequencing valve has built-in manually adjustable flow controls

Flat faced hydraulic disconnects for easy removal

Wing is cushioned with a rubber stop in stored position

Install SoundOff LED amber/green dual Mpower light to end of wing using stainless steel mounting bracket, includes forward facing marker light

Maxxima LED work light/spotlight mounted off front paraglide wing post to illuminate wing Reverse curved cutting edge

Two cast iron plow shoes

Install 3/4" rear hitch plate including the following:

PH30 pintle hook, installed 23.5" from ground to valley of hitch, additional mounting holes to be added above and below pintle hook

Two (2) 3/4" D-rings for use with safety chains

7-way RV style trailer plug, wired to chassis

Two (2) rear tow hooks

No chip bar at rear

Remount OEM chassis supplied tractor package at the rear, cap off air lines at rear hitch plate and put chassis supplied gladhands in the cab

Install Pro-Tech 14 ga. polished stainless steel tandem fender kits including the following:

Two (2) 30-7357 half circle, STAINLESS STEEL single axle fenders,

use stainless steel nylon lock nuts on U-bolts

Mounted with Buyers stainless steel fender bracketry and stainless-steel U-bolts

Install 34" Husting type front hitch including the following:

12" Channel type front bumper tapering down to clear headlights with tapered back ends Hitch is bolted to the front bumper

Install reinforcements as needed for front hitch/bumper assembly

\$72.000 \$78,000

3286 Hanna Lake Ind. Park Dr. Dutton, MI. 49316 Phone 616-698-8215, Fax 616-698-0972 Quote No. DQO004750

3" x 10" lift cylinder with Socatri or Nimet rod

Install cushion valve on bottom side of bumper, to the streetside of the front hitch, including stainless steel couplers with dust caps

Stirrup steps installed under each end of front bumper

Chain box mounted on each side of the bumper, includes install rubber seal to

help prevent rattling/vibration, also includes rubber pad at bottom of chain boxes to prevent chain from falling through

Two (2) tow hooks mounted to front kicker legs, one each side

Install Monroe stainless steel hydraulic/valve enclosure combo tank (#00155229-B) including:

Factory frame mounted fuel tanks to be used

Combo tank to mount next to the factory exhaust aftertreatment stack upright

44-gal oil capacity

Suction strainer in supply line

Top mounted Zinga type filter

Low oil sensor with indicator light in the cab and manual shut down system

Ball valve shut offs for case and supply lines

Hydraulic system to be filled with AW32 hydraulic oil

Includes 8-port return manifold

Install Central Hydraulic System including the following:

Rexroth 140CC piston pump

Low oil shut down block with over-ride switch

The pump will be fitted with split flange adapters on both the supply and pressure port

The driveline will be a Spicer 1310 series and will be mounted so it can be removed without removing the pump

Hydraulic valve is a 11M4-12 modular design with mid-inlet including the following sections:

4-way air section w/ 2000 psi A+B port LS relief 16 GPM - plow swing

4-way air section w/ 2000 psi A+B port LS relief 16 GPM - front plow

4-way air section w/ 2000 psi A+B port LS relief 16 GPM - scraper swing

4-way air section w/ 500 psi A port +2000 psi B port LS relief 16 GPM – scraper up/down

4-way motor spooled air-controlled section for hoist 34 GPM

Closed center mid inlet section

4-way cylinder spooled air-controlled section for jib 19 GPM

4-way motor spooled air-controlled section w/ 2000 psi A+B port LS relief for wing, 19 GPM

SA EPC section for spinner w/ 2000 psi B port LS relief 8 GPM

SA EPC section for auger w/ 2000 psi B port LS relief 19 GPM

SA EPC section for prewet w/ 2000 psi B port LS relief 8 GPM

DA EPC section for cross auger w/ 2000 psi A+B LS relief 15 GPM

System pressure for hoist and jib is 3600 psi

Front plow circuit will be plumbed to the front of the chassis and equipped with a cushion valve

All necessary hoses and fittings will be Parker 451 type

Flat faced hydraulic couplers for front plow and wing heel cylinder

Stainless steel mounting plate mounted behind combo tank to house stainless steel disconnects w/ caps for spreader, spinner, pre-wet, and return oil circuits

Pneu-logic 6-button Console controller including:



3286 Hanna Lake Ind. Park Dr. Dutton, MI. 49316 Phone 616-698-8215, Fax 616-698-0972 Quote No. DQO004750

Single, dual axis, multi-function air over hydraulic Joystick controller

Function buttons and air lines are color coded

Joystick provides proportional air control to actuate the plow, scraper, dump, wing, and jib functions at the valve

Padded arm rest

Pause function to be wired to controller using relay for ground speed signal interruption

Wire switches for low oil shutdown/override, cross conveyor/spinner, and potentiometer switch for cross conveyor speed into Pneu-logic console

Install new Hook loader heads up display to show in use function including the following:

Function buttons for joystick

Body up light

Pump shut down light

Low oil light

Low pre-wet

Tailgate open

Install Dickey-John Control Point automatic sander controller including the following:

Control console with switch panel and all necessary wiring harnesses

Controller will be wired into build in speed sensor in the hydraulic conveyor motor

One calibration keyboard included

Additional switch for ground speed input on/off

Install SS100 relay and potentiometer switch in cab to operate cross auger

Training is included

Install Roadwatch sensor and wire into dickey -john controller display

Install Custom Lighting and Electrical including the following:

Truck light type plow lights mounted to hood using aluminum mounting brackets, installed 72" from ground to bottom of plow lights

Stainless steel 3-hole light boxes mounted horizontally behind fenders

SoundOff LED stop/turn/taillights mounted in outer holes of light box

SoundOff LED amber/green flashers #ENFSLSRV12 in middle holes of light box

SoundOff LED back up lights mounted in inside holes of light box

LED marker lights in end caps of rear light boxes, one each side

Install 3'4" LED 3-light cluster at rear

Two (2) Maxxima LED scraper work lights, one mounted each side

Two (2) SoundOff model ELB45 amber/green led flashers mounted to chassis provided beacon light mount brackets on the roof of the cab

Backup alarm is included

Betts junction box mounted at the rear

Proximity switch for body up

In-Power 10-unit switch includes the following:

Switch one is latched off/on switch for beacon

Switch two is latched off/on switch for scraper lights

Switch three is latched off/on switch for rear flasher

Switch four is latched off/on switch for wing light

Switch five is latched off/on switch for spreader light

Switch six is momentary for camera wash

Switch seven is momentary for tarp open

3286 Hanna Lake Ind. Park Dr.
Dutton, MI. 49316
Phone 616-698-8215, Fax 616-698-0972
Quote No. DQO004750

Switch eight is momentary for camera air

Switch nine is momentary for tarp closed

Switch ten is latched off/on switch for air tailgate

Install Tarp relay and control kit and extend wiring to the rear of the chassis Install Flaming River electrical disconnect switch with timed delay

MS Foster/Voyager Back-up Camera system including the following:

VCMS24B Camera:

Combines a 1/3" CMOS image sensor and 19 LEDs into compact construction Black in color

VOM719WP Monitor:

Heavy-duty waterproof construction

7" digital wide format color TFT LCD display

Supports up to four cameras

Features six triggers and can display single image, split screen, and quad-view images

Compatible with all Voyager cameras

VOSHD6MNT Mount:

6" universal pedestal double-knuckle monitor mount

CEC34L1 Cable:

Loomed 34' cable

MSF5000 Camera Box:

Stainless steel camera box with "U" pivot bracket (Rev. N 072219)

MSF1128-12A Camera wash kit:

Small black NEMA box assembly with Banjo remote fill option

Nozzle for single camera with bracket

Dash mounted rocker switch

Wiring

Pump

Air solenoid

30' tubing kit (air and washer) for camera wash

Paint to include the following:

Front bumper and hitch, rear hitch, and any unpainted steel to be painted Black Touch up chassis frame and underbody scraper with black paint as needed Rustproofing included, inside and outside of chassis frame from the back of the cab to the end of the frame

Above installed Price: \$128,580.00 ea.

Option #1 Install 11 FT Monroe MCV-132-84-56 skid-mounted dual auger V-box including: Quote No. DQO004752

Dual 7" augers with front mount motors

24.9 CI hydraulic motors with 3.6:1 planetary gearbox

Application rate sensor in one motor

Top screens

Inverted "V"

Hopper length is 132"

Hopper width is 84"

Side height on hopper is 56"

56" doghouse

3286 Hanna Lake Ind. Park Dr. Dutton, MI. 49316 Phone 616-698-8215, Fax 616-698-0972 Quote No. DQO004750

Sides are 10 ga. type 201 stainless steel

Body longitudinal is 7 ga. type 201 stainless steel

Auger trough is 7 ga. type 201 stainless steel

Front bearing grease extensions to the side

Install Galvanized skid assembly

1/2" thick poly subfloor installed between V-box and skid

Install 54" galvanized leg kit at the rear

Install 3-hole light boxes at the rear of the V-box including the following

SoundOff LED Stop/turn/taillights mounted in top holes

SoundOff LED amber/green flashers #ENFSLSRV12 in middle holes

SoundOff LED back-up lights mounted in bottom holes

Two (2) Maxxima LED sander lights, loose – leave wire in light box – note from last time work Order – Marty to install

Betts junction box for wiring termination

7-way plug

Plumb spinner circuit and air circuits down the side of the V-box to the rear

Air foil installed at the rear constructed of type 304 stainless steel

Install fold down ladder on the side of the V-box, drivers side rear Install hydraulic driven Prewet system including the following:

Gear type liquid pump with bronze gear

Two 100 gal. rotationally molded poly liquid tanks

Type 304 stainless steel mounting brackets for the tanks

Nozzle kits mounted at the rear conveyor discharge, spray bar

Fiberglass enclosure to house the pump and the Dickey-john flow meter

Bulk fill kit and flusher kit

Cross over hose kit

Remote vent kit

Install MS9612 cross auger assembly including the following:

Stainless steel construction, 201 stainless steel

Stainless spinner housing with poly spinner disc

Drop chute assembly to fit V-box

9" auger assembly, 4" width of flighting

28 CID drive motors on auger motor

Drop chutes on each end

Air operated diverter chute to direct the flow of material either to the auger or the spinner

Option #1 Price Add: \$55,497.00 ea.

Option #2: Install skid mounted 11 ft Crysteel dump body including:

Quote No. DQO004753

Body: 11' L 84" I.D. 96" O.D.

Front style: straight, height 54", material 3/16" AR450 steel Custom cab shield approx. 9" extension, 10 ga. A1011 Side Style: Single panel with rubrail/pressed horizontal

Side height: 28" front/rear,

inside material: 3/16" AR450 steel outside material: 7 ga. A1011 steel



3286 Hanna Lake Ind. Park Dr. Dutton, MI. 49316 Phone 616-698-8215, Fax 616-698-0972 Quote No. DQO004750

36" tailgate height Rear pillar width: 14"

9 panel tailgate, 3-1/2" thick, 3/16" AR450

Tailgate release type: brake chamber mounted on outside of frame

Floor material: 1/4" AR450 steel

Frame material: A36 steel Frame style: 6" channel

Body is 100% continuously welded

6" x 10" rollers at rear

Chain slot bracket type: banjo

Dump body to be sand blasted and painted Orange in color to match the cab

Three (3) oval light cutouts in each rear pillar to house one each side:

SoundOff LED amber/green flashers #ENFSLSRV12 in top holes

SoundOff LED stop/turn/taillights mounted in middle holes SoundOff LED back-up lights mounted in bottom holes

Install Roll-Rite electric tarp including:

Aluminum wind deflector 16' Mesh type tarp cover

30-degree elbows for loader clearance

Install one fixed stainless-steel step above the drive tires, streetside only Betts junction box for wiring termination

Option #2 Price Add: \$23,997.00 ea.

Lead time: Approx. 360-390 days ARO

Payment Terms: Net 30

Pricing good for: 30 days

Thank you for the opportunity to quote.

Submitted by:

Chad Veenstra/Mike Bouwman

90