Bell Since 1951
Equipment Company
www.bellequip.com

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78 Northpointe Drive
Lake Orion, Michigan 48359
Phone: (248) 370-0000
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Ohio Office:
1045 Taylor Road
Gahanna, Ohio 43231
Phone: (614) 655-0022
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Date: June 22, 2020

Quote prepared for: Mr. Paul Matthews and Mr. CJ Stegink

City of Ann Arbor
4251 Stone School Road
Ann Arbor, MI. 48108

Quote

Qty	Description	Your Price (each)	Total
1	**Heil Half-Pack (44) cubic yard front loading refuse body**		
	Service hoist kit including **mounting and vane style front mount pump**		
	Multi-function strobe light package, LED **container light**		
	LED body side backup lights and mid-tailgate **dual LED strobe** lights		
	Dual cab guard mounted flood lights and cab **shield** hopper light		
	3rd Eye (9) camera system, auto-lube system, extended forks, limit switch-forks		
	Aluminum top sliding door		
	Tailgate mounted steel ladder		
	3/16" Hopper floor liner		
	Extendable broom kit mounted curbside		
	Cab protector extension raise-manual jack		
	D-Ring fall protection kit		
	Rear caution **decal**		
	Tag axle with **wheels and tires**		
	BODY PRICE AS EQUIPPED		**$173,407.00**
	AUTOCAR TRUCK CHASSIS		**$180,000.00**
	DELIVERED PACKAGE PRICE		**$353,407.00**
	NOTE: SOURCEWELL CONTRACT #091219-THC		

Delivery:
F.O.B.

If you wish to proceed with the quote provided, please sign and return.

Authorized Signature: _____

*Thank you for considering **Bell Equipment Company** for your equipment needs.*

Clark R. Bushman, Vice President/Sales
Cell: 248-705-1353

Prices are as of this date. Buyer should confirm pricing after 30 days.

06/18/2020

Chassis Specification

			Description	Front Weight	Rear Weight
	AUTOCAR TRUCKS				
O	ENG0001	**ENGINEERING GROUP IDENTIFIER**	AUTOCAR ENGINEERING	0	0
S	0040002	**MODELS**	ACX64	10,431	6,154
S	5000001	**CAB SHELL**	SINGLE LEFT HAND DRIVE CAB	0	0
O	100U001	**CUSTOMER TYPE**	MUNICIPAL	0	0
	VEHICLE ADAPTATION				
S	114010	**COUNTRY OF USE**	UNITED STATES STD MARKET ADAPTATION	0	0
	SOLUTION				
O	C04001	**BODY COMPANY**	HEIL	0	0
O	C02001	**BODY TYPE**	COMMERCIAL FRONT END LOADER	0	0
S	C070001	**FUEL SYSTEM TYPE**	DIESEL	0	0
O	C001051	**TRUCK TYPE (WRENCH CODE)**	FEL, HEIL, COMMERCIAL/RESIDENTIAL, WB 195, TAG@76, DIESEL, WITH SERVICE HOIST	0	0
O	C06101	**BODY STYLE**	HEIL HALF PACK	0	0
O	C05040	**TOTAL BODY CAPACITY - BODY/HOPPER**	40 YARD	0	0
O	C090004	**AXLE QUANTITY**	4 AXLE	0	0
S	C080001	**REAR SUSPENSION TYPE**	STD/BEAM TYPE REAR SUSPENSION	0	0
O	C01003	**APPLICATION**	REFUSE - LANDFILL	0	0
O	C11001	**BODY COMPANY SERVICE OPTION**	SERVICE HOIST	0	0
O	C03003	**TERRITORY**	CENTRAL	0	0
O	D010200	**FRONT GAWR**	20000 LBS	0	0
O	D020460	**REAR GAWR**	46000 LBS	0	0
O	D030110	**TAG AXLE GAWR**	11000 LBS (TIRE LIMITED)	0	0
O	D100770	**GVWR**	77000 LBS	0	0
	ENGINE				
S	1580001	**ENGINE VOCATION**	COMMERCIAL - DOMESTIC (DOT)	0	0
O	1012014	**ENGINE ASSY**	X12 '18 350 HP / 2000RPM / 1350 LB-FT, CUMMINS	0	0

S	4460001	FUEL TYPE	ULTRA-LOW SULPHUR DIESEL FUEL REQUIRED	0	0
S	972A001	SPECIAL EMISSION CERTIFICATION LABELS	50 STATE - CALIFORNIA CLEAN IDLE CERTIFIED (DIESEL)	0	0

ENGINE EQUIP

S	128071	ENGINE CONTROL SPECIFICATIONS	DEFAULT SPECS	0	0
S	1290004	ENGINE ELECTRONICS	CUMMINS 500K COMMUNICATION	0	0
S	132034	ENGINE PROTECT SYSTEM/WARNINGS	AUDIBLE/VISUAL ALARM/LOP, HT, LWL	0	0
O	4380013	FILTER-FUEL, CHASSIS MOUNTED	DAVCO 382 FILTER W/ 12V HEAT & H2O PROBE	5	1
O	170025	FILTER-FUEL, ENGINE MOUNTED	CUMMINS SPIN-ON FILTER	-5	0
S	1750001	ENGINE OIL	STANDARD ENGINE OIL	0	0
O	1760001	ENGINE OIL SAMPLING PROVISION	ENGINE OIL SAMPLING PORT	1	0
O	180021	ENGINE BLOCK HEATER	PHILLIPS 120V 1500W	5	0
O	1810004	HEATER RECEPTICAL LOCATION-ENGINE	RECEPTACLE LOCATED AT CAB STEPS, LH SIDE	1	0
S	2000004	RADIATOR	1300 SQ. IN., 2-ROW HIGH CAPACITY ALUMINUM	0	0
S	2080001	FAN & DRIVE-ENGINE	2-SPEED FAN	0	0
S	2090001	RADIATOR COOLANT	EXTENDED LIFE COOLANT	0	0
S	2120003	RADIATOR SURGE TANK	STANDARD SURGE TANK W/ SIGHT GLASS	0	0
S	2200001	AIR CLEANER	15" ONE STAGE EPG CLEANER DONALDSON	0	0
S	226001	AIR INTAKE RAIN CAP	BLACK, HOOD TYPE	0	0
S	2302000	MUFFLER SYSTEM	RH VERT HORIZ DPF/SCR	0	0
S	2310003	EXHAUST SHIELDS	DPF & SCR SHIELDS	0	0
S	2320003	EXHAUST STACKS	VERTICAL DIFFUSER, SINGLE STAINLESS STEEL	0	0
S	115A200	TURBO HEAT SHIELD	TURBO HEAT SHIELD	0	0
S	2390002	UREA DELIVERY SYSTEM	OVER-FENDER MTD., LH SIDE, 10 GAL. CAPACITY	0	0
S	5300001	ENGINE/EXHAUST COVER	ALUM TURBO/EXHAUST PIPE DEBRIS SHIELD	0	0
O	7002000	AIR COMPRESSOR	CUMMINS WABCO 25.9 CFM COMPRESSOR	0	0
S	8200003	STARTING MOTOR	DELCO REMY 12V 39 MT W/OCP	0	0
S	8020004	ALTERNATOR	DELCO REMY 36SI 12V 160 AMP	13	0

S	P010065	**VEHICLE GOVERNED SPEED LIMIT**	SPEED LIMIT 65MPH	0	0
O	P020002	**ENGINE IDLE SHUT DOWN**	ENGINE IDLE SHUT DOWN DISABLED	0	0
S	P030001	**CRUISE CONTROL PARAMETER**	CRUISE CONTROL ENABLED	0	0
S	P641200	**RPM PTO MODE**	1200 RPM MAX IN PTO	0	0
S	P701200	**PTO SET SWITCH**	PTO SET SWITCH = 1200 RPM	0	0
S	P711000	**PTO RESUME SWITCH**	PTO RESUME SWITCH = 1000 RPM	0	0

TRANSMISSION

S	2580003	**VOCATION**	RDS REFUSE - VOC 400-XXX	0	0
S	2690014	**CONTROL MODULE (ELECT)**	REFUSE W/ AUTO-NEUTRAL, VP142	0	0
S	26A0001	**TRANSMISSION SHIFT SCHEDULE / FUEL SENSE**	PRIMARY PERFORMANCE / SECONDARY ECONOMY	0	0
S	PT10001	**TRANS DIRECTION CHANGE SHIFT INHIBIT**	SHIFT INHIBIT ENABLED	0	0
S	27P0000	**TRANSMISSION RETARDER AUDIBLE ALARM**	NO TRANSMISSION RETARDER AUDIBLE ALARM	0	0
O	2700028	**TRANSMISSION**	ALLISON 4500 SERIES,6-SPEED	384	59
S	287A200	**TRANSMISSION BREATHER**	TRANSMISSION REMOTE BREATHER	0	0
S	284016	**TRANSMISSION CONTROLS**	ALLISON PUSHBUTTON CONTROLS	0	0
S	286005	**COOLER-TRANSMISSION OIL**	OIL TO WATER TYPE	0	0
S	290003	**TRANSMISSION OIL FILL/CHECK**	OIL FILL TUBE / DIPSTICK W/ LEVEL SENSOR	0	0
S	292004	**TRANSMISSION LUBRICANT**	TRANSYND SYNTHETIC AUTO TRANS FLUID	0	0
O	300013	**DRIVESHAFT-MAIN**	SPICER 1810HD HALF ROUND	5	10
O	3170007	**PTO-TRANSMISSION MOUNTED**	CHELSEA 890 / 897 PTO CLEARANCE (PREP ONLY)	5	0

FRONT AXLE

S	3700002	**FRONT AXLE**	MERITOR MFS-20 STEER AXLE, 20000# CAPACITY	0	0
S	3690005	FRONT AXLE POSITION	52.5 INCHES	0	0
O	3710003	FRONT SUSPENSION	10200 LB TAPER LEAF REDUCED RIDE HEIGHT, 22000 LB GROUND CAPACITY	-90	5
O	371T01	**SUSPENSION, FRONT AUX**	AUX LOAD CUSHION	10	0
S	373002	**SHOCK ABSORBERS-FRONT**	DOUBLE ACTING SINGLE - HEAVY DUTY	0	0

S	904011	**HUBS-FRONT**	STEEL HUB PILOTED,285MM BOLT CIRCLE	0	0
S	9400001	**WHEEL OIL SEALS-FRONT**	SCOTSEAL PLUS XL	0	0
S	9210001	**HUB CAPS - FRONT AXLE**	CR ZYTEL HUBCAP	0	0
S	374002	**FRONT AXLE LUBRICANT**	SYNTHETIC,DANA SPICER EP75W90,OR EQUIV	0	0
O	7510001	**BRAKES-FOUNDATION, FRONT AXLE**	MERITOR 16.5X7" QP REFUSE BRAKE	29	0
S	754009	**BRAKE SLACK ADJUSTERS -FRONT AXLE**	MERITOR AUTOMATIC	0	0
S	755001	**DUST SHIELDS - FRT BRAKES**	DUST SHIELDS - FRONT BRAKES	0	0
S	901001	**BRAKE DRUM-FRONT**	CAST IRON	0	0
S	383101	**STEERING GEAR**	INTEGRAL POWER STEERING W/RIGHT HAND RAM	0	0
S	387003	**POWER STEERING RESERVOIR**	FOUR QUART REMOTE MOUNTED	0	0

REAR AXLE

O	330444	**REAR DRIVE AXLE-SINGLE & TANDEM**	MERITOR RT46-160 46,000 LB	0	430
S	330U98	**REAR AXLE LUBE PUMP**	NO LUBRICATION PUMP	0	0
O	331538	**REAR DRIVE AXLE RATIO**	5.38	0	0
O	333014	**REAR DRIVE AXLE ANTI-SPIN DEVICES**	FOUR WHEEL LOCK	0	63
O	3500004	**REAR SUSPENSION**	HENDRICKSON HMX-460 SUSP @ 54" AS	0	0
S	351013	**REAR SUSPENSION BEAMS**	54 INCH STEEL RUBBER BUSHED	0	0
S	358005	**TORQUE RODS**	LONGITUDINAL & TRANSVERSE - RUBBER BUSHED	0	0
S	9130001	**HUBS-REAR**	IRON HUB, HP 10 STUD	0	0
S	3400001	**REAR AXLE BREATHER**	STANDARD AXLE BREATHER	0	0
S	9410001	**WHEEL OIL SEALS-REAR**	SCOTSEAL PLUS XL	0	0
S	339002	**REAR AXLE LUBRICANT**	SYNTHETIC	0	0
O	7610001	**BRAKES-FOUNDATION, REAR AXLE**	MERITOR 16.5X8.62" QP REFUSE BRAKE	0	42
S	764013	**BRAKE SLACK ADJUSTERS -REAR AXLE**	MERITOR AUTOMATIC,TANDEM AXLE	0	0
S	765001	**DUST SHIELDS - REAR BRAKES**	DUST SHIELDS - REAR BRAKES	0	0
S	781012	**BRAKE CHAMBERS-PARKING, TYPE/VENDOR**	CAM TYPE MGM STOPGARD (4)	0	0
S	910001	**BRAKE DRUM-REAR**	CAST IRON	0	0

AUXILIARY AXLES

O	3T10111	**TAG AXLE #1**	HENDRICKSON COMPOSILITE SCT STEERABLE TAG, 13500 LBS CAPACITY	-325	1,575
O	3T1E001	**TAG AXLE STEER LOCKS**	AUX. LIFT AXLE STEER LOCKS	0	2
O	3T1F001	**TAG AXLE BRACKET**	ALTERNATE TAG AXLE BRACKET	0	0
O	3TS0049	**TAG AXLE #1 SPACING**	49" SPREAD	0	0
O	9T10001	**TAG AXLE HUBS**	STEEL HUBS, 11.25" BOLT CIRCLE	0	0
O	9T60001	**TAG AXLE WHEEL SEALS**	SCOTSEAL PLUS XL	0	0
O	9T80001	**TAG AXLE HUB CAPS**	CR ZYTEL HUB CAPS	0	0
O	7T20004	**TAG AXLE BRAKES**	HENDRICKSON INTEGRAL 15X4	0	0
O	7T40001	**TAG SLACK ADJUSTER**	XXXX MERITOR AUTOMATIC	0	0

BRAKES

S	729002	**AIR LINES-PARKING BRAKE, CHASSIS**	AIR LINES CHASSIS PARK BRAKE	0	0
O	7412002	**BRAKE CONTROL SYSTEM**	MERITOR WABCO ABS 6S/6M W/PLC AND ATC	0	0

CHASSIS

O	400195	**WHEELBASE**	195 INCHES	-22	-27
O	402098	**FRAME-REAR OVERHANG**	98"	10	-32
S	403012	**FRAME RAILS**	3/8" VARIABLE DROP STEEL, EXT B	0	0
S	409002	**FRAME CROSSMEMBER-CENTER**	ALUMINUM	0	0
S	4110002	**FRAME CROSSMEMBER-END CLOSING**	ALUMINUM MEMBER-IF REQUIRED	0	0
S	4120002	**FRAME BOLTS**	HUCKSPIN RR SUSP & CROSSMEMBERS	0	0
O	460002	**BUMPER-FRONT**	CHROMED STEEL	0	0
O	4682000	**GUARD-OIL PAN**	ENGINE OIL PAN GUARD - STEEL	0	0
S	480002	**TOWING DEVICE-FRONT**	TWO REMOVABLE TOW PINS	0	0
S	8742000	**WIRING, BODY INTERFACE**	RP 170 COMPLIANT	0	0
O	430998	**FUEL TANK-LEFT**	DELETE LHS FUEL TANK	-29	-59
O	431020	**FUEL TANK-RIGHT**	75 GAL 26" DIA UNPAINTED ALUMINUM	29	59
O	431R001	**FUELTANK FILL RHS**	REAR FILL FUEL TANK, RHS	0	0
O	441001	**FUEL TANK STRAP/ SUPPORT RIGHT**	PAINTED STEEL, RH	0	0
O	4480004	**RH FUEL TANK SPACERS**	RH FUEL TANK SPACED 2", DROPPED 4"	7	5

O	4290003	**DRILLING FUEL TK SUPT-RIGHT**	FUEL TANK RHS LOCATION - SPEC DRIVEN	0	0
S	436015	**FUEL LINES**	SAE J1402A1 WIRE BRAIDED	0	0
S	8120005	**BATTERY BOX**	STEEL BOX, 3 BATTERY, LHS	0	0
O	8160006	**BATTERY BOX SPACERS**	BATTERY BOX SPACED 2", DROPPED 8"	7	2
O	8090003	**BATTERY BOX DRILLING**	BATTERY BOX LOCATION - SPEC DRIVEN	0	0
S	810089	**BATTERY**	3 JOHNSON CONTROL 31ECL 12V 2250CCA	0	0
O	8140003	**BATTERY SHUT-OFF SWITCH**	SHUTOFF W/ LOCKOUT & EMERGENCY JUMPER STUDS	5	2
S	7110001	**AIR TANK-BRAKE**	STEEL AIR TANKS	0	0
O	7090003	**AIR TANK DRILLING**	AIR TANKS LOCATION SPEC DRIVEN	0	0
O	7380001	**EMERGENCY AIR SYSTEM CHARGING**	SCHRADER VALVE, WET TANK MTD	1	0
O	715009	**WET TANK DRAIN**	BENDIX DV-2 AUTOMATIC WITH HEATER	1	1
O	715T003	**AIR RESERVOIR DRAIN SYSTEM**	CENTRAL MANIFOLD W/ PETCOCKS	2	2
O	713023	**AIR DRYER**	BENDIX ADIP W/HEAT	0	0
O	7100008	**AIR DRYER DRILLING**	AIR DRYER MTD OUTSIDE RAIL, RHS, SPEC DRIVEN	0	0
S	724001	**AIR LINES-CAB**	SAE J844 NYLON TUBING	0	0
S	728001	**AIR LINES-MAIN, CHASSIS**	SAE J844 NYLON TUBING	0	0

CAB EXTERIOR

S	4510001	**STEP-CAB ACCESS, CAB MOUNTED**	DUAL SELF CLEANING CAB ENTRANCE STEPS	0	0
S	462004	**MUD FLAPS-FRONT WHEEL**	FRONT FLAPS	0	0
S	502001	**CAB DOORS**	STEEL	0	0
O	5120001	**POWER WINDOWS**	DUAL INTERNAL REGULATOR POWER WINDOWS	4	0
O	5140001	**CAB GUARD FRONT**	XPEDITOR CAB GUARD	27	-8
S	622C201	**MIRROR PANE QUANTITY**	SINGLE PANE MIRROR	0	0
O	6220019	**MIRRORS-DUAL WEST COAST**	MIRROR, CHROME, HTD, REMOTE, W / LWR HTD CONVEX	0	0
S	6190002	**MIRROR ARMS**	RETRACTABLE ARMS, STAINLESS STEEL	0	0
S	618998	**DOWN VIEW MIRRORS**	NO DOWN VIEW MIRRORS PROVIDED	-2	0
S	6240001	**GRAB HANDLES-ENTRY**	BRUSHED SS GRAB HANDLES	0	0
S	630026	**HORN-AIR**	TWIN MOUNTED UNDER CAB	0	0
S	631001	**HORN-ELECTRIC**	SINGLE	0	0

O	661002	**CAB TILT MECHANISM-C.O.E.**	HYDRAULIC TILT WITH AIR ASSIST	20	0
S	6720001	**GRILLE**	AUTOCAR GRILLE	0	0
S	675001	**BUG SCREENS**	BUG SCREEN MOUNTED BEHIND GRILLE	0	0
S	6910001	**FENDER EXTENSIONS-FRONT**	IMPACT RESISTANT POLY FENDER	0	0
O	693002	**UNDERCOAT**	CAB CORROSION INHIBITOR	0	0

CAB INTERIOR

S	3800001	**STEERING WHEEL**	16" DIA. WHEEL, 2 SPOKE	0	0
S	3810002	**STEERING COLUMN**	TILT AND TELESCOPIC STEERING COLUMN	0	0
O	5200003	**SEAT-DRIVER**	BOSTROM T905 MID-BACK, AIR RIDE	2	0
O	5210003	**SEAT-PASSENGER**	BOSTROM T905 MID-BACK, AIR RIDE	31	0
O	5222001	**SEAT BELTS-DRIVER**	THREE POINT RETRACTABLE, BRIGHT ORANGE COLOR, W/O COMFORT LATCH	0	0
O	5232001	**SEAT BELTS-PASSENGER**	THREE POINT RETRACTABLE, BRIGHT ORANGE COLOR, W/O COMFORT LATCH	0	0
S	526014	**SEAT INSERT**	BLACK CORDURA	0	0
O	538004	**CARPET & MAT**	ALUMINUM DIAMOND PLATE - DRIVER SIDE	4	2
S	5390001	**CAB INTERIOR**	AUTOTUFF INTERIOR UPHOLSTERY	0	0
S	5500001	**CENTER CONSOLE**	CENTER CONSOLE	0	0
O	5510002	**REAR CONSOLE**	REAR CONSOLE W/ WIRE FRAME STORAGE CONTAINER	2	0
S	5930001	**ASH TRAY**	ASHTRAY MTD IN CONSOLE	0	0

CAB CLIMATE CONTROL

S	060001	**CAB TEMPERATURE SYSTEM**	AIR COND INTEGRAL WITH HEATER/DEFROSTER	0	0
S	612001	**AIR CONDITIONER CONDENSER**	STANDARD (RADIATOR MOUNTED)	0	0

GAUGES & INSTRUMENTATION

S	0572001	**INSTRUMENTS SALES PKG**	ADVANCED DIAGNOSTIC DISPLAY - V1	0	0
S	1430001	**TRUCK ELECTRICAL CONTROL MODULE**	VEHICLE CONTROL UNIT	0	0
S	1362000	**TACHOMETER/RPM TACHOGRAPH**	ELECTRONIC TACHOMETER	0	0

S	1372000	**GAUGE-HOURMETER**	HOURMETER INCLUDED IN ON BOARD DISPLAY	0	0
S	225009	**AIR INTAKE RESTRICTION INDICATOR**	GRADUATED, AIR CLEANER MOUNTED	0	0
O	3190001	**PTO CONTROLS**	PTO ELECTRIC CONTROL SWITCH	1	0
S	4390001	**GAUGE-FUEL LEVEL**	ELECTRONIC FUEL LEVEL	0	0
S	1472001	**VEHICLE MONITORING SYSTEM**	AUTOCAR ADVANCED TELEMATICS - FULL INSTALLATION	0	0

LIGHTING

S	8360003	**LAMPS-HEAD**	LED HEADLAMPS	0	0
O	8410003	**LAMPS-TURN SIGNAL - FRONT**	LED TURN SIGNALS, FRONT END LOADER PACKAGE	1	0
S	8440003	**SWITCH-TURN SIGNAL & FLASHER**	SELF-CANCELING TURN SIGNALS	0	0
S	8510002	**LAMPS-MARKER**	AMBER LED ROOF MARKERS	0	0
S	859001	**LAMPS-RUNNING**	DAYTIME	0	0
S	8700001	**CIRCUIT PROTECTION DEVICE**	AUTO CIRCUIT BREAKERS	0	0

RADIO/MISC

S	509001	**KEY & LOCK SETS-IGN/DOORS**	DOOR & IGNITION SAME - UNIQUE PER TRUCK	0	0
O	5900008	**RADIO**	AM/FM/WB/MP3/CD/USB/BLUETOOTH	13	-4
O	5910002	**ANTENNA/POWER SUPPLY**	ANTENNA - ROOF MOUNTED	0	0
O	596005	**RADIO SPEAKERS**	2 DUAL CONE SPEAKERS	0	0
S	8730001	**WIRING-CAB**	RADIO SHUT-OFF IN REVERSE	0	0
O	9620001	**FIRE EXTINGUISHER**	DUAL 5LB ABC EXTINGUISHERS, ONE UNDER EACH SEAT	5	0

FRONT TIRES / WHEELENDS

O	9310046	**TIRE MANUFACTURER & TREAD - FRONT**	MICHELIN XZU-S 2 (RATED TO 10K)	0	0
S	930469	**TIRE SIZE & LOAD RANGE - FRONT**	315/80R22.5L	0	0
S	9050015	**WHEELS-DISC FRONT**	22.5X9.0" STEEL, 5.25" INSET, HAYES	0	0

REAR TIRES / WHEELENDS

O	9340061	**TIRE MANUFACTURER & TREAD - REAR**	MICHELIN X WORKS XDY	0	0
S	933062	**TIRE SIZE & LOAD RANGE - REAR**	11R22.5H	0	0
S	9140014	**WHEELS-DISC REAR**	22.5X8.25" STEEL, 6.2" INSET, HAYES	0	0

AUXILIARY AXLE TIRES

O	9T5420	TAG AXLE TIRE TREAD	MICHELIN XZE	0	-62
O	9T4111	TAG AXLE TIRE SIZE	255/70R22.5H	0	0
O	9T20014	TAG AXLE WHEELS	22.5X8.25" STEEL, 6.2" INSET, HAYES	0	0

PAINT

S	950001	CAB PAINT SCHEME	SINGLE COLOR PAINT	0	0
S	9550001	CAB PAINT TYPE	STANDARD WHITE	0	0
S	9801002	CAB COLOR-FIRST	APPROVED -=- DPSS-N0007EX -=- STANDARD WHITE N0007	0	0
S	9861U1	CHASSIS COLOR	BLACK P3036	0	0
S	987949	BUMPER COLOR	SAME AS CHASSIS,UNPAINTED ALUM OR CHROME	0	0
S	988401	DISC WHEEL OR RIM COLOR	STEEL, E-COAT WHITE / ALUM-UNPAINTED	0	0

ADDITIONAL OPTIONS

S	899002	CHASSIS WARRANTY	STANDARD WARRANTY	0	0
O	899A203	TRANSMISSION WARRANTY	ALLISON 5YR. EXT WARRANTY	0	0
O	899B213	ENGINE WARRANTY	2017 ISX-D HD1 5YRS/300K MILES EXTENDED WARRANTY PP1 MATRIX 236412	0	0
O	899K207	EXHAUST AFTERTREATMENT EXTENDED WARRANTIES	2017 X12 AT3 5YRS/300K MILES AFTERTREATMENT EXTENDED WARRANTY MATRIX 233812	0	0
S	978015	FLOOR PLAN	15 DAYS FLOORING	0	0

OTHERS

O	9722018	CERTIFICATION-EMISSIONS	COMPLIES WITH 2018 U.S. EMISSIONS	0	0

SUB TOTALS

BASE WEIGHT	10,431	6,154	
FACTORY OPTION WEIGHT	157	2,041	
DISTRIBUTOR OPTION WEIGHT	0	0	

TOTALS

TOTAL WEIGHT (LB)	10,588	8,195	18,783

06/18/2020

GAWR, GVWR & Tire Pressure

GVW Rating – 77,000#			
Front GAWR	**20,000#**	**Rear GAWR**	**46,000#**
Front Suspension	22,000#	Rear Suspension	46,000#
Front Wheels	20,000#	Rear Wheels	59,100#
Front Tire Size And Tread	20,000#	Rear Tire Size And Tread	48,000#
Front Brakes	20,000#	Rear Brakes	48,000#
Front Axle	20,000#	Rear Axle	46,000#
Tag 1 GAWR	**11,000#**		
Tag 1 Wheels	14,700#		
Tag 1 Tire Size And Tread	11,000#		
Tag 1 Axle	13,500#		
PSI			
Front PSI	130.0	Rear PSI	105.0
Tag 1 PSI	120.0		

SUGGESTED STRUCTURAL BID SPECIFICATIONS

FOR HIGH COMPACTION FRONT LOADING
REFUSE COLLECTION TRUCK BODY

INTENT:

This specification describes a hydraulically actuated partial pack front loader with a container hoisting device capable of handling 1-10 cubic yard containers with side pockets. The body shall be capable of compacting and transporting refuse to a landfill or transfer station and dispensing the load by means of hydraulically ejecting the load from the body.

GENERAL TERMS:

The manufacturer of all equipment provided under this contract shall be ISO 9001-2008 certified. All equipment furnished under this contract shall be new, unused and the same as the manufacturer's current production model. Accessories not specifically mentioned herein, but necessary to furnish complete unit ready for use, shall also be included. Unit shall conform to the best practice known to the body trade in design, quality of material and workmanship. Body shall be made in the United States of America. Assemblies, sub-assemblies and component parts shall be standard and interchangeable throughout the entire quantity of units as specified in this invitation to bid. The equipment furnished shall conform to ANSI Safety Standard Z245.1-2012.

WARRANTY:

Unit shall include a One-Year Complete Body warranty as standard. This warranty will cover parts and labor not including normal wear items. Bidder shall state his normal warranty and extended warranty where available.

PARTS MANUAL:

Bidder shall furnish complete parts, maintenance, and operator's manual along with a CD containing the aforementioned material with each body sold.

BID QUOTATION:

Bidder shall complete every space in the specification bidder's proposal column with a check mark to indicate if the item being bid is exactly as specified. If not, the "NO" column must be checked and a detailed description of the deviation from the specification to be supplied.

SUGGESTED STRUCTURAL BID SPECIFICATION

BIDDER SHALL COMPLETE BY CHECKING THE FOLLOWING. IF NOT COMPLIANT, STATE SPECIFICALLY ITEM BEING OFFERED.

	YES	NO	OFFERED
A. CAPACITY			
1. The body shall have a capacity, excluding the receiving hopper, of not less than:			
a. 32 yd³	☐	☐	_____
b. 28 yd³	☐	☐	_____
c. 23 yd³	☐	☐	_____
d. 20 yd³	☐	☐	_____
2. The hopper shall have a capacity of twelve (12) cubic yards.	☐	☐	_____
B. BODY DIMENSIONS			
1. Body length including 52"cab shield is			
a. 32 yd³ - 372"	☐	☐	_____
b. 28 yd³ - 354"	☐	☐	_____
c. 23 yd³ - 322"	☐	☐	_____
d. 20 yd³ - 313"	☐	☐	_____
2. Overall length with arms down and forks in full tuck position is			
a. 32 yd³ - 422"	☐	☐	_____
b. 28 yd³ - 409"	☐	☐	_____
c. 23 yd³ - 377"	☐	☐	_____
d. 20 yd³ - 365"	☐	☐	_____
3. Overall length with arms down and forks in horizontal position is			
a. 32 yd³ - 465"	☐	☐	_____
b. 28 yd³ - 447"	☐	☐	_____

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	YES	NO	OFFERED
c. 23 yd³ - 415"	☐	☐	_____
d. 20 yd³ - 403"	☐	☐	_____
4. Body width, outside shall be no more than 96".	☐	☐	_____
5. Body width, inside should be a maximum of 88".	☐	☐	_____
6. Body height, inside should be a minimum of 85 ".	☐	☐	_____
7. Body height above chassis rail, arms down is 108".	☐	☐	_____
8. Body height above chassis rail, arms up with full tuck forks is 120".	☐	☐	_____
9. Height above frame with tailgate raised including rear underride guard is 199 ".	☐	☐	_____
10. Hopper width (bottom), above guide tracks, must be no less than 80".	☐	☐	_____
11. Hopper width (top) must be a minimum of 81".	☐	☐	_____
12. Hopper length at roof must be a minimum of 94".	☐	☐	_____
13. Hopper depth must be a minimum of 91".	☐	☐	_____

C. BODY CONSTRUCTION

1. Packer body will have flat hopper and body floor with curved roof and body sides and of overhead loading design. Hopper will be designed to properly handle containers from 1-10 cubic yard capacity.	☐	☐	_____
2. Roof - Minimum 8-gauge high tensile steel sheet 80,000 PSI typical yield.	☐	☐	_____
3. Side Walls			
a. Lower hopper sides – minimum 3/16" AR400 abrasion resistant plat steel with typical 184,000 PSI tensile strength and 150,000 PSI typical yield strength.	☐	☐	_____

SUGGESTED STRUCTURAL BID SPECIFICATION

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	YES	NO	OFFERED
b. Upper hopper sides – minimum .118" Steel sheet, with a minimum of 110,000 PSI typical yield.	☐	☐	_____
c. Body sides – minimum 7-gauge high tensile steel sheet 80,000 PSI typical yield	☐	☐	_____
4. Floor			
a. Hopper floor – minimum 1/4" AR400 abrasion resistant plate steel with typical 184,000 PSI tensile strength and 150,000 PSI typical yield strength.	☐	☐	_____
b. Body floor – minimum 1/4" AR400 abrasion resistant plat steel with typical 184,000 PSI tensile strength and 150,000 PSI typical yield strength.	☐	☐	_____
5. Roof and Side Reinforcements			
a. Roof sheet - minimum 8 gauge high tensile steel sheet 80,000 PSI minimum yield.	☐	☐	_____
b. Upper longitudinal corner brace shall be 12-gauge 80,000 PSI typical yield 4" x 6" deep formed channel fully welded to the roof and body side sheets.	☐	☐	_____
c. Lower longitudinal corner brace shall be 11-gauge 80,000 PSI typical yield 5" x 19" deep formed channel fully welded to the body side sheets.	☐	☐	_____
d. Forward vertical body side bolster shall be 7-gauge 80,000 PSI typical yield 7.75" x 7" deep formed channel conforming to the curved body sides and fully welded to the body sides.	☐	☐	_____
e. Rear vertical body side bolster shall be 3/16", 80,000 PSI typical yield 6.7" x 5" deep formed channel conforming to the curved body sides and fully welded to the body sides.	☐	☐	_____
6. Hopper Side Reinforcements			
a. The bottom side brace shall be 11-gauge formed 9.5" x 2" channel, 110,000 PSI typical yield.	☐	☐	_____

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	YES	NO	OFFERED
b. Lower and intermediate side bracing – minimum of four (4) 11-gauge 110,000 PSI typical yield 8.5" x 1.5" formed angles of lap construction.	☐	☐	_____
c. All external welds of hopper side bracing shall be continuous full seam.	☐	☐	_____
7. Floor Reinforcements			
a. Cross members shall be 7-gauge 80,000 PSI typical yield, 6" x 3" formed channel. Members shall be spaced on approximately 21-1/2" centers in low compaction zone and 17-1/4" centers in high compaction zone. Cross members shall be full width, single piece construction.	☐	☐	_____
b. Cross members shall interlace with body longitudinals to fully support the floor.	☐	☐	_____
8. Body Longitudinals (Long Members) - Shall be minimum of 7-gauge 80,000 PSI typical yield formed box section.	☐	☐	_____
9. Steel Side Access Door - The side access door shall be located at the front street side of the body with minimum opening of 26.5" x 29.5" (796.5 in²). Steps and grab handles shall be provided for ease of entry. An electrical interlock shall be provided to disable the pump whenever the side door is open. The Hopper side will include a rubber bumper stop to keep the door from damaging the body side	☐	☐	_____
10. Roof Access Ladder - A ladder shall be provided on the rear of the tailgate for access to the body roof. Steps must be of "non-slip" material.	☐	☐	_____
11. Sliding Top Door			
a. A hydraulically actuated sliding top door will be provided to cover the hopper for traveling to the discharge site.	☐	☐	_____
b. The top door cylinder shall be double acting and have a minimum 2-3/4" bore x 90" stroke with a 1-1/2" diameter chrome plated rod with a sensor embedded within the cylinder to notify when Door is in the fully opened position.	☐	☐	_____

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	YES	NO	OFFERED
c. An in-cab mounted light will be provided to indicate when the top door is not fully open.	☐	☐	_____
12. Hopper Sump - A 28-gallon hopper liquid sump with a 14" x 5.5" door each side of the hopper will be provided for ease of clean out.			
13. Hopper Sump Drain – A 3" sump drain valve located on the streetside and curbside shall be provided for the removal of liquid waste from the hopper sump	☐	☐	_____
14. Front Head Closure – a minimum 47" x 77" front head closure screen made of 1/4" expanded metal shall be provided to prevent loose debris from entering the area in front of the packer and to prevent unauthorized entry by non-service personnel.	☐	☐	_____
15. The body shall be equipped with a rear hinge style mounting to allow for the manual raising of the body for serviceability. Two (2) inter-connected tubular aluminum body props will be provided to hold the empty body in a partially raised position for servicing the unit. When the props are released, and the body is raised the props automatically position themselves in the support pockets. The props will have a 2" through shaft hinge and will be secured under the body by a positive type chain lock	☐	☐	_____
16. A plastic shovel and bracket shall be mounted to the rear of the packing blade for the sump area cleanout.	☐	☐	_____
17. A single 20lb fire extinguisher shall be provided and be readily accessible.	☐	☐	_____
18. Front and Rear mud flaps shall be provided to give the utmost protection from road debris.	☐	☐	_____
19. A safety Triangle kit shall be provided in the cab.	☐	☐	_____

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IF NOT COMPLIANT, STATE SPECIFICALLY ITEM BEING OFFERED.**

	YES	NO	OFFERED
D. PACKING MECHANISM			
1. A hydraulically actuated packer traversing a minimum of 81", from the front head, shall clear the hopper of material	☐	☐	_____
2. The lower packing panel face will be a minimum 3/16" AR400 abrasion resistant plat steel with typical 184,000 PSI tensile strength and 150,000 PSI yield strength. The upper vertical face will be a minimum 11-gauge, 80,000 PSI typical yield. The packer will be reinforced with a combination of structural members for maximum rigidity.	☐	☐	_____
3. Packing mechanism guide rails			
a. The hopper zone packer guide rails (2) in the side of the body shall be comprised of 3/8" 50,000 PSI typical yield structural angle welded to 3-1/2" x 1/4" ASTM A500 Grade B structural tubing on each side of body. The structural tubing shall be of a continuous piece the full interior length of the hopper, minimum of 128" long.	☐	☐	_____
b. Abrasion resistant wear bars, AR500 215,000 PSI minimum yield 230,000 Tensile x 500 BHN typical, shall be clad to the hopper zone guide rails, each side, in the following manner			
i. Bottom horizontal track wear bar shall be 1/4" thick x 3-1/2" wide and located 3-1/2" above floor at corner.	☐	☐	_____
ii. Top horizontal track wear bar shall be 1/4" thick x 2-1/2" wide.	☐	☐	_____
iii. Outer vertical track wear bar shall be 1/4" thick x 2-1/2" wide.	☐	☐	_____
c. The ejection zone guide rails shall be 3/8" 50,000 PSI typical yield structural angle welded to the full length 3-1/2" x 3-1/2" x 3/16" ASTM A500 Grade B structural tube. A 1/4" x 2-1/2" H.R.S. wear bar shall be welded to the vertical and undersides surface of the guide rail assembly. The top wear surface shall be clad with 1/4" x 3-1/2 H.R.S. steel.	☐	☐	_____

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	YES	NO	OFFERED
d. The packer panel shall be guided on each side of the body with 3" x 6" x 1/4" ASTM A500 Grade B structural tubing clad with AR500 abrasion resistant with typical 184,000 PSI tensile strength and 150,000 PSI yield strength wear bars in the following manner:	☐	☐	_____
i. Bottom horizontal packer panel wear bar shall be 3/8" thick x 3" wide x 41" long.	☐	☐	_____
ii. Top horizontal packer panel wear bar shall be 1/4" thick x 3" wide x 41" long.	☐	☐	_____
iii. Two (2) vertical packer panel wear bars, located below the structural tubing, shall be 1/4" thick x 2" wide x 18" long.	☐	☐	_____
4. Bolt-on lugs			
a. The packer panel shall be provided with bolt-on lugs for each of the two (2) packing cylinders. The cylinders shall be attached to the packer panel lugs via two-inch (2") diameter pins. Cylinder removal may be accomplished by either pulling the pins or by removing the entire bolt-on lugs. The lugs shall be attached to the packing panel with six (6) ¾" diameter bolts for each lug assembly.	☐	☐	_____
b. The body front head shall also be provided with bolt-on lugs for packing cylinders. The lugs shall retain cylinder pins with four (4) ¾" diameter bolts.	☐	☐	_____
5. Packer cylinders			
a. The packer will be hydraulically actuated by two (2) double acting telescopic cylinders with 5-1/2" bore	☐	☐	_____
b. Packer cylinders shall have spherical bearings on both ends.			
c. The Packer cylinder grease zerks that are located on the rod and base end shall be equipped with a remote lube system that is accessible from the ground	☐	☐	_____

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	YES	NO	OFFERED
6. Packing force – minimum cylinder compaction force shall be 117,000 pounds.	☐	☐	_____

E. BUSTILE TAILGATE

1. Tailgate must be one piece; top hinged and shall open approximately 4° above horizontal. Tailgate shall not slide against body seal material when opening/closing to keep seal wear/damage to a minimum	☐	☐	_____
2. Tailgate back sheets shall be constructed of a minimum 0.135" (10 Ga) 80,000 PSI typical yield steel.	☐	☐	_____
3. Tailgate side sheets shall be constructed of a minimum 0.118" (11 Ga), 110,000 PSI typical yield steel.	☐	☐	_____
4. The tailgate will be secured to the body by two (2) sets of hinges with 2" hinge pins at the roof line.			
5. The Tailgate hinge shall be equipped with greaseless bearings.	☐	☐	_____
6. A heavy duty rear door positive seal of rubberized gasket material will be installed the full length of the bottom and 68" up the sides of the tailgate to prevent leakage.	☐	☐	_____
7. The tailgate shall be secured in the closed position by means of a fully automatic latching mechanism actuated by a separate control in the cab.	☐	☐	_____
8. Hydraulic tailgate			
a. The tailgate shall be raised and lowered hydraulically actuated by two (2) double acting cylinders with a minimum bore of 3" and a minimum stroke of 35" with a 1.75" diameter hardened chrome plated rod. Cylinder design shall also include an orifice fitting in the base port which will prevent the rapid descent of the tailgate in the event of a hydraulic failure. The cylinders shall use greaseless bearings in the rod and base ends to eliminate the need for greasing	☐	☐	_____

SUGGESTED STRUCTURAL BID SPECIFICATION

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	YES	NO	OFFERED
b. The tailgate shall be locked by two (2) lock cylinders with a minimum bore of 3" x 3-5/8" stroke with 1-1/2" diameter hardened chrome plated rod. Lock and tailgate raise cylinders shall be actuated by separate controls in the cab. Both cylinders should have embedded sensors that sense when cylinders are fully extended	☐	☐	_____
9. All lights will be recessed into the tailgate with the lens flush with the outer skin. Clearance, backup and directional lights shall be an Acrylic or Lexan lens, shock mounted in a protective housing. The whole unit will be "pop-out" and replaceable. All vehicles will meet FMVSS #108 and state lighting and reflector requirements.	☐	☐	_____
10. An in-cab mounted display shall display a warning message to indicate that the tailgate is not fully closed.	☐	☐	_____
F. LIFT ARMS			
1. The lift arms will be 3" x 8" box reinforced type construction rated and capable of lifting 8,000-pound gross container and payload.	☐	☐	_____
2. Lift arms shall be capable of lifting loaded containers from a truck dock with 10' maximum pocket height.	☐	☐	_____
3. Lift arm cycle time will be approximately 19-21 seconds at 35 GPM.	☐	☐	_____
4. Container pick-up, dump, and disengagement will be done without the need for assistance and without the driver leaving the cab.	☐	☐	_____
5. The lift arms, during the dump cycle, must not obstruct or interfere with the opening of the truck cab doors on either side.	☐	☐	_____
6. The two (2) 3" x 8" rigidly constructed lift arms will be held tight to the torque tube using 4" thick ASTM A-487, 60,000 PSI yield cast steel clamping devices, and secured using two (2) 7/8" Grade 8 bolts and lock nuts on each side.	☐	☐	_____

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	YES	NO	OFFERED
7. The arm torque tube will be mounted in four (4) split bearing blocks with four (4) replaceable split bronze bushings with grease provisions. The split bearing blocks will be rigidly welded to the lower front of the body.	☐	☐	_____
8. Lift arm hydraulics			
a. The lift arms will be hydraulically actuated by two (2) double acting cylinders 4-1/2" bore x 41-1/2" stroke with a 2-1/2" diameter induction hardened and chrome plated rod.	☐	☐	_____
b. The cylinders will be located outside the body at the body floor level and directly attached to the lift arms.	☐	☐	_____
9. Container Forks			
a. Two (2) 1-1/2" x 59" grip high tensile, 50,000 PSI typical yield forks shall be welded to a 4-1/2' O.D. x 3/8" wall C-1018 Seamless tubing fork cross shaft assembly. This assembly shall include rubber bumpers to reduce impact and prevent damage to containers.	☐	☐	_____
b. Fork cross shaft assembly shall be attached to the arms with two (2) split bearing blocks with replaceable split bronze bushings fitted with grease provisions.	☐	☐	_____
10. Fork Hydraulics - The forks will be hydraulically actuated by two (2) double acting cylinders, 3.5" bore x 25" stroke with a 2" diameter induction hardened and chrome plated rod.	☐	☐	_____
11. Forks shall be designed to provide the necessary dump angle to assure complete discharge of materials from the refuse containers.	☐	☐	_____
12. Lift arms shall be brought to a smooth stop in the raised and lowered position by use of cushioned hydraulic arm cylinders.	☐	☐	_____
13. Heavy duty bolt-on hard rubber arms stops located at the side of the body will cushion and prevent over travel of the lift arms.	☐	☐	_____

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	YES	NO	OFFERED
14. Maximum height with the lift arms raised in the full up and forks fully tucked position will be 13'6" (based on a chassis rail height of 42").	☐	☐	_____
15. An in-cab mounted display shall display a warning message to indicate when any part of the arms are raised above 13'6".	☐	☐	_____

G. REAR UNDERRIDE GUARD

1. The body shall be equipped with a rear under-ride guard as standard equipment.	☐	☐	_____

H. PAINTING

1. First Step – Smoothing - All weld slag, splatter or roughness shall be removed with the appropriate hand tools. No sand, shot or glass air blasting shall be permitted to eliminate contamination and possible damage to bearings or pin surfaces and possible distortion of higher gauge sheet materials used on the body.	☐	☐	_____
2. Second Step – Purgation - A heated pressure wash shall drench the entire body with a silicated alkaline phosphate based pre-cleaner to clean all metal surfaces. This solution shall soak through and break down the oil film and other contaminants found on steel. The solution shall be non-corrosive to metals and shall be environmentally friendly.	☐	☐	_____
3. Third Step – Pre-Treatment – An organically accelerated phosphoric acid based pretreatment will be applied to all metal surfaces. This step provides a chemical conversion coating which changes the chemical and physical nature of the surface by providing a surface that the next application (prime) will adhere to.	☐	☐	_____
4. Fourth Step – Sealing - The entire body shall be coated with an application of the patented Dry-In-Place Seal from Henkel Surface Technologies. This process shall dramatically improve the surface finish's resistance to rusting that occurs from general wear and tear, and shall provide improvements to paint adhesion and other related corrosion that occurs over the life of the products. This shall			

SUGGESTED STRUCTURAL BID SPECIFICATION

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	YES	NO	OFFERED
help retain the "as new" appearance of the factory paint surface.	☐	☐	_____
5. Fifth Step - Primer Coat Paint - The seal coat shall be painted using Axalta Corlar - a high performance, low VOC/HAPS epoxy polyamide primer-sealer. Corlar is a two-component gray primer-sealer that is lead and chromate free. This shall be applied in an amount necessary to achieve a dry film thickness of 1.2 mil.	☐	☐	_____
6. Sixth Step - Finish Top Coat Paint - A high luster finish coat shall be applied using Axalta Imron Elite – a high-performance, low VOC (<3.5 lbs/gal RTS) two-component polyurethane enamel. An ample amount shall be applied to achieve a dry film thickness of 2 mil and shall result in a finish of 3.2 mil minimum film thickness.	☐	☐	_____
I. Body Undercoating			
1. The body shall be undercoated with a Thixotropic material to provide protection to the underside of the refuse body.	☐	☐	_____
J. Rust Prevention			
1. The body and attaching parts shall be sealed with Tersotat Joint Sealer and CavityCoat for rust prevention protection.	☐	☐	_____
K. Warranty			
1. A one year complete body warranty covering parts and labor shall take effect on the body contract date.	☐	☐	_____