



# CITY of NOVI CITY COUNCIL

**Agenda Item 8**  
**October 22, 2018**

**SUBJECT:** Approval to purchase a 2019 7400 model single-axle chassis from Tri-County International through the MiDeal Cooperative Purchasing Contract; and the up-fits by Truck and Trailer Specialties through the City of Rochester Hills RFP Contract, in the amount of \$219,040.

**SUBMITTING DEPARTMENT:** Department of Public Works, Fleet Asset Division  
Department of Public Works, Field Operations Division

**CITY MANAGER APPROVAL:** 

<b>EXPENDITURE REQUIRED</b>	<b>\$ 221,235</b>
<b>AMOUNT BUDGETED</b>	<b>\$ 250,000</b>
<b>APPROPRIATION REQUIRED</b>	<b>N/A</b>
<b>LINE ITEM NUMBER</b>	<b>101-442.20-984.017</b>

## **BACKGROUND INFORMATION:**

A single-axle dump truck with front plow, underbody scraper, and wing blade was budgeted in this fiscal year's CIP as FLD012. This truck would be equipped with the standard computer ground speed controls on the eight previously procured trucks. These controls allow for conservative salt use, operator convenience, and simplified data tracking.

This new equipment replaces a 20-year-old truck (#698) with no advanced winter maintenance technology. The specifications for this equipment enhances service to the community by allowing operators to pre-wet salt, which speeds up activation and reduces the amount of salt scatter from the road (estimated to be as much as 40% without pre-wetting). In addition the unit is equipped with a stainless steel radius dump-box to resist corrosion, a seven-foot wing plow (estimated to clear wide subdivisions streets up to 30% quicker than trucks not outfitted with this technology), and a computer system to automatically adjusts salt and liquid application rates based on ground speed and pavement and air temperatures. This new truck conforms to the standardization of the snow fleet and requires no additional training for the operators.

**RECOMMENDED ACTION:** Approval to purchase a 2019 7400 model single-axle chassis from Tri-County International through the MiDeal Cooperative Purchasing Contract; and the up-fits by Truck and Trailer Specialties through the City of Rochester Hills RFP Contract, in the amount of \$219,040.

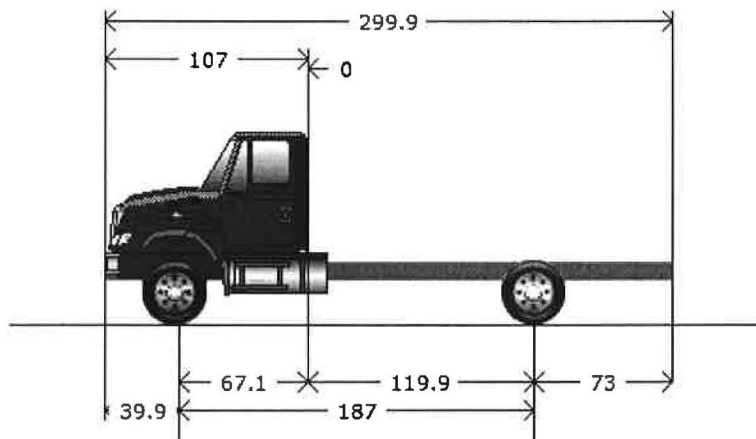
**Prepared For:**

City of Novi  
 Mike Rhatigan  
 45175 W 10 Mile Rd.  
 Novi, MI 48375-3024  
 (248)735 - 5656  
 Reference ID: MIDEAL HV607

**Presented By:**

TRI COUNTY INTL TRUCKS  
 Jeremy Kast  
 3001 E HIGH ST  
 JACKSON MI 49203  
 (517)783-2721

Tri County International Trucks, Inc./State of Michigan DTMB Contract 071B6600122, Specification #3958 0160D-Option B for a new 2019 MY International Truck Chassis per this proposal. Pricing includes all user specified option equipment costs and available discounts in effect as of date listed. Please note that the afforded pricing includes a 1% fee paid to the state of Michigan as required under this contract. Additional surcharge requirements as issued by the manufacturer may be applicable in the future.



**Model Profile  
 2019 HV607 SBA (HV607)**

<b>AXLE CONFIG:</b>	4X2
<b>APPLICATION:</b>	Construction Dump
<b>MISSION:</b>	Requested GVWR: 41000. Calc. GVWR: 41000 Calc. Start / Grade Ability: 42.18% / 2.79% @ 55 MPH Calc. Geared Speed: 68.6 MPH
<b>DIMENSION:</b>	Wheelbase: 187.00, CA: 119.90, Axle to Frame: 73.00
<b>ENGINE, DIESEL:</b>	{Cummins L9 330} EPA 2017, 330HP @ 2000 RPM, 1000 lb-ft Torque @ 1400 RPM, 2200 RPM Governed Speed, 330 Peak HP (Max)
<b>TRANSMISSION, AUTOMATIC:</b>	{Allison 3500 RDS} 5th Generation Controls, Wide Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, with 80,000-lb GVW and GCW Max, On/Off Highway
<b>CLUTCH:</b>	Omit Item (Clutch & Control)
<b>AXLE, FRONT NON-DRIVING:</b>	{Meritor MFS-18-133A} Wide Track, I-Beam Type, 18,000-lb Capacity
<b>AXLE, REAR, SINGLE:</b>	{Meritor RS-26-185} Single Reduction, 26,000-lb Capacity, Driver Controlled Locking Differential, R Wheel Ends Gear Ratio: 6.14
<b>CAB:</b>	Conventional
<b>TIRE, FRONT:</b>	(2) 315/80R22.5 Load Range L UNISTEEL G291 (GOODYEAR), 491 rev/mile, 68 MPH, All-Position
<b>TIRE, REAR:</b>	(4) 12R22.5 Load Range H G622 RSD (GOODYEAR), 482 rev/mile, 75 MPH, Drive Vari-Rate; 31,000-lb Capacity, Includes 4500-lb Capacity Multileaf Auxiliary
<b>SUSPENSION, RR, SPRING, SINGLE:</b>	
<b>FRAME REINFORCEMENT:</b>	Outer "C" Channel, Heat Treated Alloy Steel (120,000 PSI Yield); 10.813" x 3.892" x 0.312"; (274.6mm x 98.9mm x 8.0mm); 480.0" (12192mm) Maximum OAL
<b>PAINT:</b>	Cab schematic 100WL

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
HV60700	Base Chassis, Model HV607 SBA with 187.00 Wheelbase, 119.90 CA, and 73.00 Axle to Frame.	6403/3563	9966
1570	TOW HOOK, FRONT (2) Frame Mounted	8/0	8
1572	TOW HOOK, REAR (2)	0/10	10
1ANA	AXLE CONFIGURATION {Navistar} 4x2	0/0	0
	<u>Notes</u> : Pricing may change if axle configuration is changed.		
1CBU	FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.125" x 3.580" x 0.312" (257.2mm x 90.9mm x 8.0mm); 480.0" (12192) Maximum OAL	22/221	243
1GBP	FRAME REINFORCEMENT Outer "C" Channel, Heat Treated Alloy Steel (120,000 PSI Yield); 10.813" x 3.892" x 0.312"; (274.6mm x 98.9mm x 8.0mm); 480.0" (12192mm) Maximum OAL	388/561	949
1LLK	BUMPER, FRONT Omit Item	-84/14	-70
1WDS	FRAME EXTENSION, FRONT Integral; 20" In Front of Grille	137/-32	105
1WGR	WHEELBASE RANGE 138" (350cm) Through and Including 187" (475cm)	0/0	0
2ARZ	AXLE, FRONT NON-DRIVING {Meritor MFS-18-133A} Wide Track, I-Beam Type, 18,000-lb Capacity	186/0	186
3ADG	SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 18,000-lb Capacity, with Shock Absorbers	5/0	5
4091	BRAKE SYSTEM, AIR Dual System for Straight Truck Applications	0/0	0
4193	BRAKES, FRONT, AIR CAM 16.5" x 6", Includes 24 SqIn Long Stroke Brake Chambers	26/0	26
4722	DRAIN VALVE {Bendix DV-2} Automatic, with Heater, for Air Tank	1/0	1
4AZA	AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel)	0/0	0
4EBD	AIR DRYER {Wabco System Saver 1200} with Heater	8/3	11
4EVH	BRAKE CHAMBERS, REAR AXLE {MGM TR3030LP3TSHD} 30/30 Spring Brake	0/41	41
4EXV	BRAKE CHAMBERS, FRONT AXLE {Bendix} 24 SqIn	18/0	18
4LAA	SLACK ADJUSTERS, FRONT {Haldex} Automatic	0/0	0
4LGA	SLACK ADJUSTERS, REAR {Haldex} Automatic	0/0	0
4NDH	BRAKES, REAR, AIR CAM S-Cam; 16.5" x 8.625" Includes 30/30 Sq.In. Long Stroke Brake Chambers and Spring Actuated Parking Brake	0/50	50
4SPA	AIR COMPRESSOR {Cummins} 18.7 CFM Capacity	0/0	0
4VHZ	AIR TANK LOCATION (2) Mounted Under Cab, Outside Left Rail, on Step Bracket, with Ground Clearance	0/0	0
4VKC	AIR DRYER LOCATION Mounted Inside Left Rail, Back of Cab	14/7	21
5708	STEERING COLUMN Tilting	14/1	15
5CAW	STEERING WHEEL 4-Spoke; 18" Dia., Black	0/0	0

<u>Code</u>	<u>Description</u>	<u>F/R Wt Tot Wt</u>	
		(lbs)	(lbs)
5PTB	STEERING GEAR (2) {Sheppard M100/M80} Dual Power	60/-5	55
6DAX	DRIVESHAFT {Dana Spicer} SPL170XL in lieu of 1710 Series	0/0	0
7BEV	AFTERTREATMENT COVER Steel, Black	11/2	13
7BLG	EXHAUST SYSTEM Single Horizontal Aftertreatment Device, Frame Mounted Right Side Under Cab; Includes Single Vertical Tail Pipe, Frame Mounted Right Side Back of Cab, for Improved Ground Clearance	131/34	165
7WAZ	TAIL PIPE (1) Turnback Type, Non-Bright, for Single Exhaust	0/0	0
7WDM	EXHAUST HEIGHT 10'	2/0	2
7WDN	MUFFLER/TAIL PIPE GUARD (1) Non-Bright Aluminum	0/0	0
7WZY	SWITCH, FOR EXHAUST 2 Position, Lighted & Latching, On/Off Type, Mounted in IP, Inhibits Diesel Particulate Filter Regeneration as Long as Switch is in On Position	2/0	2
8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment	0/0	0
8518	CIGAR LIGHTER Includes Ash Cup	1/0	1
8695	SNOW SHIELD (2) Chrome; for Dual Air Horns	2/0	2
8GXD	ALTERNATOR {Leece-Neville AVI160P2013} Brush Type; 12 Volt 160 Amp. Capacity, Pad Mount, with Remote Sense	0/0	0
8HAB	BODY BUILDER WIRING Back of Standard or Sleeper Cab at Left Frame or Under Extended or Crew Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/ Ground and Sealed Connector for Stop/Turn	2/0	2
8HAH	ELECTRIC TRAILER BRAKE/LIGHTS Accommodation Package to Rear of Frame; for Combined Trailer Stop, Tail, Turn, Marker Light Circuits; Includes Electric Trailer Brake Accommodation Package with Cab Connections for Mounting Customer Installed Electric Brake Unit, Less Trailer Socket	0/2	2
8HXT	HORN, AIR (2) Single Tone, Chrome, Roof Mounted, with Lanyard Pull Cord	0/0	0
8MSH	BATTERY SYSTEM {Fleetrite} Maintenance-Free, (4) 12-Volt 2640CCA Total	55/51	106
8RGA	2-WAY RADIO Wiring Effects; Wiring with 20 Amp Fuse Protection, Includes Ignition Wire with 5 Amp Fuse, Wire Ends Heat Shrink and Routed to Center of Header Console in Cab	1/0	1
8RMH	BATTERY DISCONNECT SWITCH {Cole-Hersee 75920-06} 300 Amp; Battery Box Mounted, Disconnects Charging Circuits, Locks with Padlock	3/0	3
8RML	RADIO AM/FM/WB/Clock/Bluetooth/USB Input/3.5MM Auxiliary Input, MP3, Apple Device Play & Control, Bluetooth for Phone & Music	4/0	4
8RMZ	SPEAKERS (2) 6.5" Dual Cone Mounted in Both Doors, (2) 5.25" Dual Cone Mounted in Both B-Pillars	6/2	8
8THJ	AUXILIARY HARNESS 3.0' for Auxiliary Front Head Lights and Turn Signals for Front Plow Applications	2/0	2
8VAY	HORN, ELECTRIC Disc Style	0/0	0

<u>Code</u>	<u>Description</u>	<u>F/R Wt Tot Wt</u>	
		(lbs)	(lbs)
8VUJ	BATTERY BOX Steel with Plastic Cover, 18" Wide, 2, 3, or 4 Battery Capacity, Mounted Right Side Back of Cab	-34/11	-23
8VZR	SWITCH, BODY CIRCUITS, MID for Bodybuilder, 6 Momentary Switches in Instrument Panel; One Power Module with 6 Channels, 20 Amp Max. Per Channel, 80 Amp Max Output, Switches Control Power Module Through Multiplex Wiring, Mounted in Cab Behind Driver Seat	1/0	1
8WBW	JUMP START STUD Remote Mounted	2/0	2
8WDG	BACK-UP ALARM {Preco 1059} Electronic; Solid State, Dual Function, 112 dBA	0/1	1
8WGL	WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time	0/0	0
8WMA	SWITCH, TOGGLE, FOR WORK LIGHT Lighted; on Instrument Panel and Wiring Effects for Customer Furnished Back of Cab Light	2/1	3
8WPH	CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade	0/0	0
8WPZ	TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights	0/0	0
8WRB	HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on	0/0	0
8WTK	STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt; less Thermal Over-Crank Protection	8/0	8
8WWJ	INDICATOR, LOW COOLANT LEVEL with Audible Alarm	0/0	0
8WXD	ALARM, PARKING BRAKE Electric Horn Sounds in Repetitive Manner When Vehicle Park Brake is "NOT" Set, with Ignition "OFF" and any Door Opened	0/0	0
8XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses	0/0	0
8XHR	POWER SOURCE, ADDITIONAL Auxiliary Power Output (APO) & USB Port, Located in the Instrument Panel	0/0	0
8XJE	TURN SIGNALS, FRONT {Sound Off} Dual Face, LED, Amber/Amber, Mounted on Top of Fender, Used with Standard Flush Mounted Front Turn Signal, Side Marker Lamps, Parking Lights and Reflectors	0/0	0
9585	FENDER EXTENSIONS Rubber	6/0	6
9AAB	LOGOS EXTERIOR Model Badges	0/0	0
9AAE	LOGOS EXTERIOR, ENGINE Badges	0/0	0
9HAN	INSULATION, UNDER HOOD for Sound Abatement	10/0	10
9HBM	GRILLE Stationary, Chrome	0/0	0
9HBN	INSULATION, SPLASH PANELS for Sound Abatement	2/0	2
9WBC	FRONT END Tilting, Fiberglass, with Three Piece Construction; for WorkStar/HV	0/0	0
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100	0/0	0

<u>Code</u>	<u>Description</u>	<u>F/R</u>	<u>Wt</u>	<u>Tot</u>	<u>Wt</u>
			(lbs)		(lbs)
	<u>Includes</u> : PAINT SCHEMATIC ID LETTERS "WL"				
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone	0/0			0
10SLV	PROMOTIONAL PACKAGE Government Silver Package	0/0			0
11001	CLUTCH Omit Item (Clutch & Control)	-55/-8			-63
12703	ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection	0/0			0
12851	PTO EFFECTS, ENGINE FRONT Less PTO Unit, Includes Adapter Plate on Engine Front Mounted	10/0			10
12926	RADIATOR HOSES Silicone; Molded	0/0			0
12EHV	ENGINE, DIESEL {Cummins L9 330} EPA 2017, 330HP @ 2000 RPM, 1000 lb-ft Torque @ 1400 RPM, 2200 RPM Governed Speed, 330 Peak HP (Max)	583/-19			564
12THT	FAN DRIVE {Horton Drivemaster} Direct Drive Type, Two Speed with Residual Torque Device for Disengaged Fan Speed	0/0			0
12UWZ	RADIATOR Cross Flow, Series System; 1228 SqIn Aluminum Radiator Core with Internal Water to Oil Transmission Cooler and 1167 In Charge Air Cooler	23/-5			18
12VAL	AIR CLEANER Dual Element, with Integral Snow Valve and In-Cab Control	6/0			6
12VGN	FEDERAL EMISSIONS {Cummins L9} EPA, OBD and GHG Certified for Calendar Year 2018	0/0			0
12VXT	THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel	0/0			0
12VYL	ACCESSORY WIRING, SPECIAL for Road Speed Wire Coiled Under Instrument Panel for Customer Use	0/0			0
12VYP	ENGINE CONTROL, REMOTE MOUNTED No Provision Furnished for Remote Mounted Engine Control	0/0			0
12WZE	EMISSION COMPLIANCE Federal, Does Not Comply with California Clean Air Idle Regulations	0/0			0
13AVL	TRANSMISSION, AUTOMATIC {Allison 3500 RDS} 5th Generation Controls, Wide Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, with 80,000-lb GVW and GCW Max, On/Off Highway	195/54			249
13WET	TRANSMISSION SHIFT CONTROL for Column Mounted Stalk Shifter	0/0			0
13WLP	TRANSMISSION OIL Synthetic; 29 thru 42 Pints	0/0			0
13WUC	ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS); General Purpose Trucks, Construction	0/0			0
13WYH	TRANSMISSION TCM LOCATION Located Inside Cab	0/0			0
13WYU	SHIFT CONTROL PARAMETERS Allison 3000 or 4000 Series Transmissions, 5th Generation Controls, Performance Programming	0/0			0
13XAL	PTO LOCATION Left Side of Transmission	0/0			0

<u>Code</u>	<u>Description</u>	<u>F/R Wt Tot Wt</u>	
		(lbs)	(lbs)
14ASA	AXLE, REAR, SINGLE {Meritor RS-26-185} Single Reduction, 26,000-lb Capacity, Driver Controlled Locking Differential, R Wheel Ends . Gear Ratio: 6.14	0/271	271
14SAL	SUSPENSION, RR, SPRING, SINGLE Vari-Rate; 31,000-lb Capacity, Includes 4500-lb Capacity Multileaf Auxiliary	0/177	177
15LMR	FUEL/WATER SEPARATOR {Racor 400 Series,} with Primer Pump, Includes Water-in-Fuel Sensor	0/0	0
15LMU	LOCATION FUEL/WATER SEPARATOR Mounted Outside Left Rail, 8" Back of Cab	0/0	0
15SSC	FUEL TANK Temporary, Top Draw, Non-Polished Aluminum, D-Style, 16" Tank Depth, 50 US Gal (189L), with Quick Connect Outlet, Mounted Left Side, Back of Cab	27/-1	26
15WDG	DEF TANK 7 U.S. Gal. 26.5L Capacity, Frame Mounted Outside Left Rail, Under Cab	0/0	0
16030	CAB Conventional	0/0	0
16975	HEATER HOSES Silicone	0/0	0
16BAM	AIR CONDITIONER with Integral Heater & Defroster	56/0	56
16GDC	GAUGE CLUSTER Base Level; English with English Speedometer and Tachometer, for Air Brake Chassis, Includes Engine Coolant Temperature, Primary and Secondary Air Pressure, Fuel and DEF Gauges, Oil Pressure Gauge, Includes 3 Inch Monochromatic Text Display	0/0	0
16HGH	GAUGE, OIL TEMP, AUTO TRANS for Allison Transmission	1/0	1
16HHE	GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} with Black Bezel Mounted in Instrument Panel	2/0	2
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster	0/0	0
16JNV	SEAT, DRIVER {National 2000} Air Suspension, High Back with Integral Headrest, Cloth, Isolator, 1 Chamber Lumbar, 2 Position Front Cushion Adjust, -3 to +14 Degree Back Angle Adjust	28/11	39
16SEE	GRAB HANDLE Chrome; Towel Bar Type with Anti-Slip Rubber Inserts; for Cab Entry Mounted Left Side Only at "B" Pillar	3/0	3
16SMM	SEAT, PASSENGER {National} Non Suspension, High Back, Fixed Back, Integral Headrest, Cloth	16/7	23
16SNR	MIRRORS (2) Power Adjust, Thermostatically Controlled Heated Heads, LED Clearance Lights, Bright Finish Heads and Arms, Black Brackets, 7.55" x 14.1" Flat Glass, 7.48" x 6.77" Convex Glass Both Sides	0/0	0
16VKK	CAB INTERIOR TRIM Diamond, for Day Cab	0/0	0
	<u>Includes</u> : CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets, Retainer Nets and CB Radio Pocket; Located Above Driver and Passenger : DOME LIGHT, CAB Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Reading Lights; Integral to Overhead Console, Center Mounted		

<u>Code</u>	<u>Description</u>	<u>F/R</u>	<u>Wt</u>	<u>Tot Wt</u>
		(lbs)	(lbs)	(lbs)
	: SUN VISOR (3) Padded Vinyl; 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Vanity Mirror and Toll Ticket Strap, plus 1 Auxiliary Visor (Front Only), Driver Side			
16WBY	ARM REST, RIGHT, DRIVER SEAT	3/0		3
16WHJ	HOSE CLAMPS, HEATER HOSE {Breeze} Belleville Washer Type	0/0		0
16WJU	WINDOW, POWER (2) and Power Door Locks, Left and Right Doors, Includes Express Down Feature	5/0		5
16WLS	FRESH AIR FILTER Attached to Air Intake Cover on Cowl Tray in Front of Windshield Under Hood	0/0		0
16WSK	CAB REAR SUSPENSION Air Bag Type	0/0		0
16XJP	INSTRUMENT PANEL Wing Panel	0/0		0
16XWD	SUNSHADE, EXTERIOR Aerodynamic, Painted Roof Color; Includes Integral Clearance/Marker Lights	15/2		17
16ZBT	ACCESS, CAB Steel, Driver & Passenger Sides, Two Steps Per Door, for use with Regular and Extended Cabs	0/0		0
27DPN	WHEELS, FRONT {Accuride 29039} DISC; 22.5x9.00 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs, Non-Standard Offset, with .5" Thick Disc	62/0		62
28DUK	WHEELS, REAR {Accuride 29169} DUAL DISC; 22.5x8.25 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with .472" Thick Increased Capacity Disc and Steel Hubs	0/24		24
7382158102	(4) TIRE, REAR 12R22.5 Load Range H G622 RSD (GOODYEAR), 482 rev/mile, 75 MPH, Drive	0/72		72
7772540190	(2) TIRE, FRONT 315/80R22.5 Load Range L UNISTEEL G291 (GOODYEAR), 491 rev/mile, 68 MPH, All-Position	24/0		24
	Cab schematic 100WL Location 1: 2303, Red (Std)			
	Chassis schematic N/A			
	<b>Services Section:</b>			
40128	WARRANTY Standard for HV507, HV50B, HV607 Models, Effective with Vehicles Built July 1, 2017 or Later, CTS-2025A	0/0		0
	<b>Total Component Weight:</b>		<b>8429/5123</b>	<b>13552</b>
	1% MiDEAL Fee Paid to State of Michigan		0/0	0
	<b>Total Goods Purchased:</b>		<b>0/0</b>	<b>0</b>

The weight calculations included in this proposal are an estimate of future vehicle weight. The actual weight as manufactured may be different from the estimated weight. Navistar, Inc. shall not be liable for any consequences resulting from any differences between the estimated weight of a vehicle and the actual weight.



<u>Description</u>	<b>(US DOLLAR)</b>	<u>Price</u>
Total Factory List Price Including Options:		\$137,153.00
Total Goods Purchased:		\$726.12
Total Preparation And Delivery:		\$940.00
Total Freight:		\$2,200.00
Total Factory List Price Including Freight:		\$141,019.12
Less Customer Allowance:		(\$50,662.12)
Total Vehicle Price:		\$90,357.00
Total Warranty:		\$478.00
Total Sale Price:		\$90,835.00
Total Per Vehicle Sales Price:		\$90,835.00
Total Net Sales Excluding Taxes:		\$90,835.00
Michigan Title Fee	\$15.00	
Total License, Title:		\$15.00
Net Sales Price:		\$90,850.00

Payment for the chassis is due upon delivery of the cab/chassis to the end user or body company; which ever occurs first. If payment is not received in a timely manner additional floorplan(interest) costs may be charged to the end-user customer. Please make all purchase orders and checks payable to Tri-County International Trucks, Inc.

Please review this proposal very carefully. Your signature below indicates that you accept the specifications and payment terms(listed on page one) contained herein as written and that you are able to approve said specifications for order and payment terms. Please include this proposal number on all correspondence and purchase orders.

\*\*\*Pricing Good Thru 11-30-2018\*\*\*

**Approved by Seller:**

**Accepted by Purchaser:**

Salesman 10-5-2018  
\_\_\_\_\_

**Official Title and Date**

*Jeremy Kast*  
\_\_\_\_\_

**Authorized Signature**

TRI COUNTY INTL TRUCKS  
3001 E HIGH ST  
JACKSON MI 49203  
(517)783-2721

\_\_\_\_\_

**Firm or Business Name**

\_\_\_\_\_

**Authorized Signature and Date**

**This proposal is not binding upon the seller without Seller's Authorized Signature**

\_\_\_\_\_

**Official Title and Date**

**The TOPS FET calculation is an estimate for reference purposes only. The seller or retailer is responsible for calculating and reporting/paying appropriate FET to the IRS.**

# TRUCK & TRAILER *Specialties, Inc.*

1200 Victory Drive | Howell, MI 48843 | [www.ttspec.com](http://www.ttspec.com) | Ph: (517) 552-3855 | Fx: (517) 552-3666

**July 12, 2018**

City of Novi  
Attn: Mike Rhatigan, Fleet Asset Manager  
45175 Ten Mile Road  
Novi, MI 48375-3024

## Equipment Quotation

**The following pricing is based on City of Rochester Hills RFP-RH-13-030 contract awarded November 2013**

**Chassis:** Single Axle, 2019 International 7400 4x2

**Install Monroe 11' model RDS-132-96-56 (Radius Dump Spreader) Body with front & rear discharge capability including the following:**

Overall length is 132", outside width is 96" and overall side height is 56"  
Tailgate height is 50", side height is 44" and 50" at the front  
Body shell, head sheet and inner tailgate constructed of 3/16" type 201 stainless steel  
Body top rail, corner posts and tailgate supports constructed of 3/16" 201 stainless steel  
Body longitudinal is constructed of ¼" type 201 stainless steel  
Floor is constructed of ¼", type 201 stainless steel  
667XH conveyor chain with ½ x 1-½" crossbars on every other link on 4.5" centers  
Conveyor chain housing is 34" in width  
Chain shields shall be replaceable  
Twin Rawson-type gear boxes  
17.9 CID drive motors with built-in application rate sensor- 100 pulse type  
2" drive and idler shafts  
Tailgate is air-operated and includes an air cylinder mounted at the front of the body with latch rods extending to the rear and over center finger latches  
Tailgate construction is 3/16" type 201 stainless steel  
4 oval hole lights in stainless steel light wedges mounted to each rear pillar post  
7 ga type 201 stainless steel single axle fenders mounted integrally to the body  
Front and rear grease extension kits for bearings, tailgate cam and hoist trunnions  
Install 24" cabshield 10 ga. 201 stainless steel continuously welded to body  
Install floor cover constructed of ¼" AR400 steel  
Install body prop kit on each side of the frame  
Proximity switch for body-up light  
Install air-operated series/parallel valve with in-cab control  
Install Cougar model 3200 DC box vibrator  
Install ½ of stainless steel ladder mounted on driver-side, front of RDS body with grab handle  
Install stainless steel carryover frame covers with grab handles  
Install mudflaps fore and aft of rear driver tires with no advertising  
Install bracket for the license plate on the rear tailgate on the left side

**Install Mailhot-type, front-mounted Telescopic Hoist including the following:**

Hoist is double-acting  
Hoist includes nitrated cylinders  
Hoist includes oscillating mounting collar and is trunnion-mounted  
Hoist is NTEA class 90

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**Install Roll-Rite Electric Tarp System including the following:**

- Heavy-duty mesh cover
- Aluminum tarp with tension bows and offset elbows
- Tarp arms to be mounted to fenders of RDS body
- Aluminum wind deflector

**Install Monroe Closed-Loop Pre-Wet System including the following:**

- NEMA weather-tight fiberglass pump enclosure
- Hydraulic driven 7 gpm pump assembly with Dickey John flow meter
- 5 PSI in-line check valve for nozzles
- 2 nozzle w/ brass tips and caps
- Twin (2) 100 gallon tanks with stainless steel attaching hardware
- Includes crossover tube, bulk fill adaptor and flush kit
- Remote vent tube for each tank

**Install Front Cross Conveyor including the following:**

- Conveyor shall have two-ply high-temp belt
- Drive motor can operate in both directions
- Right side discharge shall have stainless steel berm chute

**Install Rear Spinner Assembly including the following:**

- Dual, receiver-type tubular mounting
- Formed 24" poly spinner disc
- Spinner motor includes seal saver
- Direction chute on inside of spinner with 3 exterior adjustable deflectors
- Construction is type 201 stainless steel
- Install grab handles to the Rear Spinner Assembly to aide removal

**Install Monroe Fuel/Oil/Valve Combination Enclosure including the following:**

- 120 gallon fuel oil capacity, 35 gallon hydraulic oil capacity
- Fuel/hydraulic tank/valve enclosure is 7 ga. type 201 stainless steel construction
- Hydraulic valve enclosure built into left side of tank
- Valve enclosure to have a weather tight door
- Low-oil sensor in hydraulic tank and wired to a low oil shutdown system
- Top of the tank Zinga-type, tank-mounted return line filter
- Ball valve shutoff on case drain and supply ports
- Sight and temperature gauge
- Hydraulic tank will be full of AW32 hydraulic oil
- "Fuel" and "Hydraulic Oil" stickers shall be installed on the tank
- Install 3-step egress & platform from streetside fender to combination reservoir tank
- Step assemblies shall be painted Red to match cab

**Install Central Hydraulic System including the following:**

- Force America FASD45L piston pump – 6.0 CID
- Front pump mounting bracket
- Pump flange
- Low-oil shutdown block with override controls
- Monroe-type low-oil sender in tank
- Spicer drive line
- Valve assembly is Force America Add-a-Fold with the following sections:
  - 4 way EPC section for Hoist with LS relief for down pressure
  - 4 way EPC section for Scraper with LS relief for down pressure
  - 4 way EPC section for Scraper swing
  - 4 way EPC section for Front Plow

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- 4 way EPC section for Front Plow swing
- 4 way EPC motor spooled section for Wing Plow
- 4 way EPC section for Main Conveyor
- 4 way EPC section for Front Cross Conveyor
- 3 way EPC section for Pre-wet
- 3 way EPC section for Rear Spinner

Force America CommandAll Single controller armrest compatible

All necessary hoses and fittings will be Parker-type

Stainless steel piping will be used to extend the spreader, spinner, pre-wet and return oil circuits to the rear of the chassis

Return line manifold

**Install Force America Control Center including the following:**

Force America CommandAll Single joystick controller with a 6100 model spreader

The electronic controller shall be a single-handle design with a minimum of three miniature fully-proportional joysticks in the head of the handle to operate all cylinder functions

The primary joystick handle head shall include LED-backlit momentary pushbuttons for activation of remote standby and remote blast

The electronic spreader control shall be designed for precise, closed-loop control of granular and prewet liquid applications and operate on a CAN Bus protocol

The spreader control interface shall have two, color-coded, continuous rotation encoders for granular and spinner control

The spreader control display shall be a remotely-mounted, 7" diagonal color TFT LCD, with a low-profile 16:9 widescreen format and minimum of 800X480 pixel resolution

The operator menus shall be color-coded to match the encoder knobs on the operator interface

A proportional PWM driver and input module (Valve Module) shall be remotely mounted inside the hydraulic valve enclosure for control of both spreader control and joystick control outputs

Truck diagnostic calibration shall be completed prior to delivery

Supply one USB for firmware and storing calibration data

**Install 34" Husting-type Front Hitch including the following:**

12" structural C-channel front bumper with tapered back ends

Double-acting lift cylinder with Socatri rod

Serrated bar steps at the front bumper

Installed roller pins, rollers mounted to hitch frame base

Roller Kit Assembly, hitch-portion

Front tow hooks to be mounted on frame with bumper cut-outs

Two expanded metal front bumper steps driver and passenger side

Expanded metal traction strip placed across the top of the front bumper

Chain box to be mounted on the driver's side of the front bumper

**Install Monroe model MP36R11-ISCT Snow Plow with mailbox trim on right-end including the following:**

11' long on top, 36" across

Moldboard painted powder-coat Orange, with the pushframe painted powder-coat Black

Six (6) ½" x 4" vertical ribs, 4" x 4" x ¾" moldboard bottom angle, 2" x 3" x 3/8" moldboard top angle

Moldboard thickness to be 10 gauge

5/8" x 8" x 11' high carbon steel cutting edge with SHS punching.

Full-moldboard trip assembly with dual-compression trip

Integral shield style moldboard

Screw adjustable skid shoes to be mounted on the plow

A rubber snow shield to be mounted across the top of the plow

Blade guides

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34" Husting plow-portion hitch

Roller Kit Assembly, plow-portion

**Install Monroe model 4510 Underbody Scraper with two (2) 1' bolt-on extensions including the following:**

10' x 20" x 1" moldboard with two (2) 1' bolt-on extensions, one on each end of moldboard

Moldboard is grade 50, hi-tensile steel, not heat-treated

All cylinder rods are Socatri-type, not nitrated

Replaceable trunnions

Piloted centerpin bolt into hangerboard

Grease line kit is included

Cushion valve and j-50 relief valve included

Install proximity switch for scraper position indication

Install 4" grip-strut scraper step, not bar grating, installed raised with step material

Install Kennametal single-insert carbide cutting edges

Install two (2) Kennametal D-shaped carbide curbguards one each end of the moldboard

Paint Red bands on ends of moldboard to match cab

**Install Monroe model MJW-7' mid-mounted 7' Jr. Wing; parallelogram-type wing including the following:**

7' moldboard length, 27" intake height, 28" discharge height

Moldboard is powder-coated Orange

Safety chain shall be installed for transport at any adjusted angle

Wing Post is mounted just ahead of front drive tire with rear push arm mounted behind the rear drive tire

Wing Post is parallelogram design and shall mount directly ahead of the drive tire

Rear push arm is to be equipped with a 6" cushion spring

Hydraulic circuit for the wing is equipped with a sequencing valve for proper operation of the wing

Sequencing valve shall have built-in, manually adjustable flow controls

Wing is to be equipped with stainless steel hydraulic disconnects for easy removal

Wing will also be equipped with a cushioned rubber stop to prevent it from hitting the body when

placed in the stored position at any adjusted angle

Install two (2) single-hole stainless steel light boxes mounted on the end of the wing, with a Green 6"

oval flasher and an Amber 6" oval flasher and an LED marker light front-facing

Install recycled tire cutting edge 5" x 10" x 83" including a weld-on 2' round stock curbguard

Install two (2) Monroe wing shoes, one each at toe and heel of tire cutting edge

Install double-reinforced 1/2" thick rubber snow deflector with 9' length

Install proximity switch for wing position indication

Install safety clamp for wing push-arm spring

**Install LaserLine model GL3000PMC Wing Plow Guidance Laser including the following:**

Green "ultra-bright" laser assembly enclosed in weatherproof housing

Heated front window lens to reduce or eliminate icing

Pneumatic air blast mechanism for lens, blasting every 5 seconds

Control switch installed in-cab for laser on/off and air blast on/off

Laser assembly installed on roof of cab

**Install Custom Lighting & Electrical including the following:**

Four-hole rear wedge stainless steel light boxes with LED lights on rear pillars including:

Driver-side 4-hole wedge on RDS body going down:

Star Green, SoundOff STT, SoundOff Backup & Star Amber

Pass-side 4-hole wedge on RDS body going down:

Star Amber, SoundOff STT, SoundOff Backup & Star Green

Flashers hooked up to wig-wag corner-to-corner

Two (2) SoundOff LED mPower (mo. EMPC2STS4) amber/green flashers front-facing, under cabshield

Two (2) SoundOff LED mPower (mo. EMPC2STS4) amber/green flashers side-facing, one per side RDS body

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Two (2) Weldex LED flood lights mounted at rear, angled toward pavement for spreader  
Two (2) Weldex LED flood lights mounted above scraper on left and right side  
One (1) Weldex LED flood light mounted on RDS body to illuminate wing plow  
LED button marker lights on the combination body's light wedges  
Plow lights and aluminum plow light brackets mounted on hood  
Betts junction box and related wiring

**Controls & Switches including the following:**

OEM chassis and CommandAll switches shall control the emergency & work lighting

Chassis switches for the following:

- Scraper work lights
- Spreader work lights
- Wing work light

Console switches for the following:

- Tarp in/out
- Air-tailgate

CommandAll programmable switch assembly installed for the following:

- Low-oil pump override
- Front flashers
- Rear flashers
- Plow bracket flashers
- Spreader on/off

**Install Rearview Camera with Wash System including the following:**

M.S. Foster & Associates Inc. system, recess-mounted into rear tailgate frame  
NEMA enclosure with air puffer & washer fluid tubing  
MSF1128-12.50A camera wash with banjo remote fill  
VCMS155B color camera, high performance and waterproof  
CEC34L1 loomed 34' main cable for monitor  
VOSHD6MNT double-knuckle monitor mount  
MSF5000 stainless steel camera box  
VOM74WP 7" LCD color monitor, waterproof

**Install Flaming River Electrical Shutdown including the following:**

3-minute timed delay switch mounted in-cab  
Enclosure with LED indicator 2" round light mounted in cab skirt

**Install Force America wireless temperature sensor for pavement & air temp tied into 6100 Controller**

**Install Precise AVL Monitoring System including the following:**

City-supplied Precise unit, tying into proximity switches  
City to supply unit and cables for wiring (include the serial # on the unit to Mike Rhatigan)

**Install Electric Brake Controller**

**Install ¾" Rear Hitch Plate including the following:**

PH-20 pintle hook with multi-drill mounting holes for adjustment height (mounted at 22" to cradle)  
Two (2) ¾" D-rings welded on each side for tow chains  
Rear tow hooks mounted outside of frame rails  
Preco 1040 back-up alarm  
Electric plug 7-way round pin

**Install One (1) pry bar tube holder, include rubber bumper inside tube to prevent rattling**

**Install One (1) spade holder mounted to RDS**

**Install Fire Extinguisher and Triangle Kit**

**Install Rustproof top of floor in-cab, remove floor mat and install rustproofing**

**Install Minimizer Floor Mats for International 7400 (mo. FKINTL2B-MIN)**

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**Chassis requirements to be confirmed prior to order entry:**

- CA: 120"
- 6-pack of chassis switches
- Delete OEM bumper
- Front frame extension
- Front of engine PTO
- Stationary grille
- Highest ground clearance package
- Horizontal DPF mounted under the curbside door or behind cab
- Right side with a vertical tailpipe
- Trailer wiring to the rear for electric brake controller
- Temporary fuel tank

**Above installed and non-stainless steel painted:     \$130,385.00 ea.**

**Payment Terms:** Net 30. Pricing effective for 30 days.

**FOB:**                 City of Novi

**Delivery:**         300-360 days ARO

**Thank you for the opportunity to quote.**

Respectfully submitted by,  
Jon Luea/Brian Bowman