

NOTICE TO BIDDERS

Notice is hereby given that the Board of Public Works and Safety of the City of West Lafayette, Indiana will receive sealed bids until the hour of 4:00 p.m. local time, on February 18, 2011, at the Office of the Clerk-Treasurer, City Hall, 609 W. Navajo St., West Lafayette, IN 47906 for **one (1) 2011 truck with 10-foot dump body, 10-foot snowplow, per specifications; and one (1) 2011 truck with 10-foot dump body, 12-foot snowplow, per specifications.** All bids received by said time will be held unopened and then taken to the following regular Board of Works meeting (Tuesday, February 22, at 8:30 a.m. local time) and there will be publicly opened and read aloud. Bids received after said time will be returned unopened. No oral, telegraph, facsimile, or telephone bids or changes to bids will be considered.

Specifications and bid forms are available on the City website at www.westlafayette.in.gov, or at the Street Dept., 705 S. River Rd., West Lafayette, phone 765-775-5242.

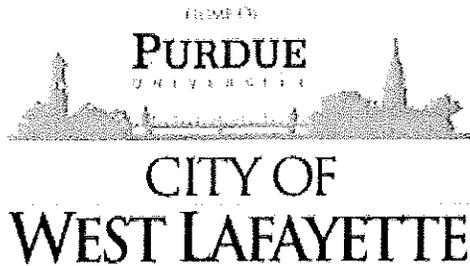
Each bidder will submit his bid upon State Board of Accounts Form No. 95, (Revised 1987), with the non-collusion affidavit properly executed, in a sealed envelope marked, "**Street Truck Bids.**"

The bid must be accompanied by a bidders bond or certified check of not less than 5% of the total bid made in favor of the City of West Lafayette, Indiana. A certified check shall be filed with each bid by a bidder not having his principal place of business in Indiana.

The Board of Public Works and Safety expressly reserves the right to reject any or all bids and waive irregularities of bidding.

Board of Public Works and Safety
Judith C. Rhodes, Clerk-Treasurer

PUBLISH: February 1, 2011, and February 8, 2011



705 South River Road
West Lafayette, IN 47906
Street / Sanitation / Recycling

Phone: (765) 775-5242
Fax: (765) 746-1302

January 12, 2011

Memo

TO: Mayor Dennis and West Lafayette Board of Works
FROM: David A. Downey, Street Commissioner
RE: Request for Approval of Truck Specifications

The West Lafayette Street Department is requesting approval for one (1) new 2011 truck with a GVW of 29,000 pounds. Truck cab is to be conventional and truck chassis is to be equipped with a 10 foot dump body. The truck is to have additional equipment of a 10 foot v-box salt spreader with pre-wet system and a 10 foot snow plow. The truck is to be equipped with the necessary hydraulics to operate all of the above equipment.

The department is also requesting approval for a second new 2011 truck with a 36,000 GVW. Truck cab is to be conventional and truck chassis is to be equipped with a 10 foot dump body. The truck is to have additional equipment of a 10 foot v-box salt spreader with pre-wet system and a 12 foot snow plow. The manufacturer is to make frame and radiator accommodations for the hydraulics to be direct drive from the engines hydraulics to operate the dump body and all attachments.

The department as part of the specifications asks for the option to consider the trade of 2 trucks.

1. 1992 L8000 Ford Dump Truck, Serial # 1DXR82A5NVA14068,
GVW 29000
2. 1994 L8000 Ford Dump Truck, Serial # 1FDXR82E3RVA21514

It is also requested that the Clerk-Treasurer set advertising and bid opening dates.

<p>General: Specifications for the City of West Lafayette Street Department for a conventional cab and single axle chassis outfitted with a hydraulic system to operate a 10 foot dump bed. Also the truck is to be equipped with a 10 foot salt spreader and a 10 foot snow plow. (Reference within the specs to a brand name or manufacturer's name or specs is for reference only, and may be supplied with an approved substitute of equal or better quality). Equipment that is bid pursuant to these specifications shall be of equal quality and size, or greater, to those referenced, and are subject to approval by the purchaser. These are minimum specifications. If any part of an item that is not in compliance than an explanation can be provided on a separate sheet with the benefits of that item to the city. It will be up to the purchasers discretion on what items will be termed equal. Any items not listed on the exception sheet will be assumed to be part of the unit. Bidders must submit with their bid a complete specification on the unit they purpose to furnish. Original copies of vehicle specifications and literature must be provided with the bid. Fax copies or unreadable copies of literature or specifications will not be allowed.</p>
<p>Minimum Chassis Specifications</p>
<p>Base Chassis, Cab to Axle 84 inches.</p>
<p>TOW HOOK, FRONT (2) Inside Rail, Frame Mounted. 8/0 8</p>
<p>FRAME RAILS High Strength Low Alloy Steel (80,000 PSI Yield); 9.125" x 3.062" x 0.312" With Transition to 6.500" x 3.062" x 0.312" Maximum , Low Profile Frame Height at center of rear axle unloaded shall not exceed 31.29 inches or loaded 28.64 inches</p>
<p>BUMPER, FRONT Full Width, Aerodynamic, Steel; 0.142" Material Thickness Includes Powder Coated Gray (Argent) Color</p>
<p>WHEELBASE RANGE To accommodate a 10 foot dump body with front PTO hydraulics.</p>
<p>AXLE, FRONT NON-DRIVING {Dana Spicer D800-F} I-Beam Type, 8,000-lb Capacity Turning Radius shall not exceed 27' 2" and must be a published turning radius; needs to have a set back front axle.</p>
<p>SUSPENSION, FRONT, SPRING Parabolic, Taper Leaf; 8,000-lb Capacity; With Shock Absorbers 0/0 0 Includes : SPRING PINS Rubber Bushings, Maintenance-Free</p>
<p>BRAKE SYSTEM, HYDRAULIC Split System, Full Power, With Automatic Adjustment And With Four Channel ABS Optional Air Brakes , Page 6</p>
<p>AIR DRYER {Bendix AD-IP} With Heater 21/4 25</p>
<p>BRAKE, PARKING {Bosch} DSSA Type; 12" x 3", Spring Actuated; For Hydraulic Brake Chassis With Air Source; Activated by Parking Brake Knob on Instrument Panel</p>
<p>BRAKES, FRONT, HYDRAULIC DISC "Diamond Life" 15.00" x 1.44" Rotors; Dual 2.60" (66mm) Diam. Pistons</p>
<p>BRAKES, REAR, HYDRAULIC DISC "Diamond Life" 15.00" x 1.44" Rotors; Dual 73mm Diam. Pistons</p>
<p>AIR COMPRESSOR {Bendix Tu-Flo 550} 13.2 CFM Capacity; and Tank for Air Source on Hydraulic Chassis</p>
<p>STEERING COLUMN Tilting</p>
<p>STEERING WHEEL 2-Spoke, 18" Diam., Black</p>
<p>STEERING GEAR {TRW (Ross) TAS-40} Power</p>
<p>DRIVESHAFT {Dana Spicer} SPL140 in lieu of SPL90 Series</p>
<p>EXHAUST SYSTEM Single, Horizontal, After treatment Device Frame Mounted Right Side Back of Cab; Includes Vertical Tail Pipe And Bright Guard</p>
<p>EXHAUST BRAKE, DLOGIC {Diamond Logic} for Maxx Force DT Engines; Exhaust Brake, Electronically Activated</p>
<p>TAIL PIPE (1) Turn back Type, Non-Bright Finish, for Single Exhaust</p>
<p>SWITCH, FOR EXHAUST 2 Position, Lighted & Latching, ON/OFF Type, Mounted in IP, Inhibits Diesel 2/0 2 Particulate Filter Regeneration as Long as Switch is in ON Position</p>
<p>ELECTRICAL SYSTEM 12-Volt, Standard Equipment</p>

<p>Includes</p> <ul style="list-style-type: none"> : BATTERY BOX Steel; Mounted Left Side, Under Cab : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab : FUSES, ELECTRICAL SAE Blade-Type : HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever : HORN, ELECTRIC Single : JUMP START STUD Located on Positive Terminal of Outermost Battery : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light : RUNNING LIGHT (2) Daytime, Included With Headlights : STARTER SWITCH Electric, Key Operated : STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector : TURN SIGNAL SWITCH Self-Cancelling with Lane Change Feature : TURN SIGNALS, FRONT Includes Reflectors and Auxiliary Side Turn Signals, Solid State Flashers; Flush Mounted : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever : WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted : WIRING, CHASSIS Color Coded and Continuously Numbered
ALTERNATOR {Leece-Neville 8LHP2170PH} Brush Type; 12 Volt 130 Amp. Capacity, Pad Mounted
BODY BUILDER WIRING Back of Standard Cab at Left Frame or Under Cab at Left Frame; 2/0 2 Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn
ELECTRIC TRAILER BRAKE/LIGHTS Accommodation Package to Rear of Frame; for Separate Trailer Stop, 0/2 2 Tail, Turn, Marker Light Circuits; Includes Electric Trailer Brake accommodation package With Cab Connections for Mounting Customer Installed Electric Brake Unit, Less Trailer Socket
TAIL LIGHT WIRING MODIFIED Includes: Wiring for Standard Lt & Rt Tail Lights; Separate 8.0' of Extra Cable
BATTERY SYSTEM Maintenance-Free, (3) 12-Volt 1950CCA Total 43/12 55
RADIO AM/FM Stereo With Weather band, Clock, Includes Multiple Dual Cone Speakers : SPEAKERS IN CAB (2) Dual-Cone with Deluxe Interior, equipped with power source for FM 2 way radio.
Wiring for Lt & Rt Body Mounted Tail Lights
BACK-UP ALARM Electric, 102 DBA
HORN, AIR Black, Single Trumpet, Air Solenoid Operated, Mounted Behind Bumper on Right Rail
WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time
HEADLIGHTS Halogen; Composite Aero Design for Two Light System; Includes Daytime Running Lights
TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on Back-up Lights
STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt; less Thermal Over-Crank Protection -30/0 - 30
INDICATOR, LOW COOLANT LEVEL With Audible Alarm
ALARM, PARKING BRAKE Electric Horn Sounds in Repetitive Manner When Vehicle Park Brake is

"NOT" Set, With Ignition "OFF" and any Door Opened
CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III With Trip Indicators, Replaces All Fuses Except For 5-Amp Fuses
GRILLE Chrome
INSULATION, UNDER HOOD for Sound Abatement
INSULATION, SPLASH PANELS for Sound Abatement
FRONT END Tilting, Fiberglass, With Three Piece Construction
PAINT TYPE Base Coat/Clear Coat, 1-2 Tone
ENGINE, DIESEL , 325 HP, 620 lb-ft Torque @ 1400 RPM, 2600 RPM 0/0 0 Governed Speed, # 2 Bell Housing Includes : COLD STARTING EQUIPMENT Intake Manifold Electric Grid Heater with Engine ECM Control : CRUISE CONTROL Electronic; Controls Integral to Steering Wheel : ENGINE OIL DRAIN PLUG Magnetic : ENGINE SHUTDOWN Electric, Key Operated : FAN Optimized Position : FUEL/WATER SEPARATOR and FUEL FILTER in a Single Assembly; With Water-in-Fuel Sensor; Mounted on Engine : GOVERNOR Road Speed, Electronic : OIL FILTER, ENGINE Spin-On Type FAN DRIVE {Borg-Warner SA85} Viscous Screw On Type 3/0 3 Includes : FAN Nylon
FEDERAL EMISSIONS for 2011
RADIATOR Aluminum; 2-Row, Cross Flow, Over Under System, 717 Sq In Louvered, With 313 Sq In Charge
Air Cooler. With In-Tank Transmission Cooler Includes DEAERATION SYSTEM with Surge Tank
AIR CLEANER Single Element, with Integral Snow Valve and In-Cab Control 2/0 : GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted
THROTTLE, HAND CONTROL Engine Speed Control for PTO; Electronic, Stationary Pre-Set, Two Speed Settings; Mounted on Steering Wheel
ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls; With Ignition Switch Control for post 2011 Emissions Electronic Engines
BLOCK HEATER, ENGINE {Phillips} 120 Volt/1250 Watt; With "Y" Cord From Socket in Standard Location, 4/0 4 With Provision in Oil Pan For a Dealer Installed Oil Pan Heater, With Extended Life Coated Oil Pan, for I6 Engines Includes : BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door EXPANDED ENGINE TEMP EFFECTS to Allow Higher Engine Operating Temperature Range; Includes Nylon Surge Tank and 15 psi Pressure Cap
TRANSMISSION, AUTOMATIC {ALLISON 3500_RDS_P} 4th Generation Controls; Wide Ratio, 5-Speed, With 162/72 234 Overdrive; On/Off Hwy; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 60,000-lb GVW & GCW Max. Includes : OIL FILTER, TRANSMISSION Mounted on Transmission : TRANSMISSION OIL PAN Magnet in Oil Pan
TRANSMISSION SHIFT CONTROL {ALLISON} Push-Button Type; for Allison 3000 & 4000 Series

<p>Transmission SHIFT CONTROL PARAMETERS WT-Allison S-4 Economy Programming in Primary and Allison Performance Programming in Secondary Live Hydraulics</p>
<p>TRANSMISSION OIL {Castrol Tran Synd} Synthetic; 29 thru 42 Pints 0/0 0</p>
<p>ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS); General Purpose Trucks, Construction 0/0 0</p>
<p>PTO CONTROL, DASH MOUNTED For Customer Provided PTO; Includes Switch, Electric/Air Solenoid, Piping 3/0 3 and Wiring</p>
<p>AXLE, REAR, SINGLE {Dana Spicer 17060D} Single Reduction, 17,500-lb Capacity, With Driver Controlled 0/183 183 Locking Differential, With "190" Wheel Ends Includes : REAR AXLE DRAIN PLUG (1) Magnetic, For Single Rear Axle</p>
<p>SUSPENSION, RR, SPRING, SINGLE Vari-Rate; 18,500-lb Capacity 0/31 31</p>
<p>FUEL/WATER SEPARATOR With Thermostatic Fuel Temperature Controlled Electric Heater, and Filter 5/0 5 Restriction/Change Indicator, Includes Standard Equipment Water-in-Fuel Sensor</p>
<p>FUEL TANK Top Draw; D Style, Non Polished Aluminum, 50 U.S. Gal., 189 L Capacity, 16" Tank Depth, With -44/-12 -56 Quick Connect Outlet, Mounted Left Side, Under Cab</p>
<p>Conventional Truck Cab to be White with Gray Interior : FLOOR COVERING Rubber, Black : GLASS, ALL WINDOWS Tinted : GRAB HANDLE, CAB INTERIOR (1) "A" Pillar Mounted, Passenger Side : STEP (2) One Step Per Door</p>
<p>GAUGE CLUSTER English With English Electronic Speedometer Includes : GAUGE CLUSTER (5) Engine Oil Pressure (Electronic), Water Temperature (Electronic), Fuel (Electronic), Tachometer (Electronic), Voltmeter : ODOMETER DISPLAY, Miles, Trip Miles, Engine Hours, Trip Hours, Fault Code Readout : WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible) GAUGE, OIL TEMP, ALLISON TRAN 1/0 1 GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} With Black Bezel Mounted in Instrument Panel 2/0 2 IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster</p>
<p>SEAT, DRIVER {National 2000} Air Suspension, High Back With Integral Headrest, Vinyl, Isolated, With 2 1/0 1 Position Front Cushion Adjustment, -3 to +14 Degree Seat Back Adjustment, Single Chamber Air Lumbar Support Includes : SEAT BELT 3-Point, Lap and Shoulder Belt Type SEAT, PASSENGER {National} Air-Suspension, High Back With Integral Headrest, Vinyl, Isolated, With 2 52/28 80 Position Front Cushion Adjustment, -3 to +14 Degree Seat Back Adjustment, Single Chamber Air Lumbar Support Includes : SEAT BELT 3-Point, Lap and Shoulder Belt Type</p>
<p>MIRRORS (2) {Lang Mekra} Styled; Rectangular, 7.09" x 15.75", Brackets Breakaway Type, With 102" Wide 9/0 9 Spacing, With Integral Convex Both Sides, With All Heated Heads, Thermostatically Controlled, With Clearance</p>

Lights LED, Powered Both Sides, Flat Glass Only
GRAB HANDLE (2) Black, Aluminum; for Cab Entry Mounted Left and Right
ARM REST, RIGHT, DRIVER SEAT
ARM REST, LEFT, PASSENGER SEAT
CAB SOUND INSULATION Includes Dash Insulator and Engine Cover Insulator
INSTRUMENT PANEL Center Section, Ergonomic Panel
WINDOW, POWER And Power Door Locks, Front, Left and Right
AIR CONDITIONER Blend-Air} With Integral Heater & Defroster Includes : HEATER HOSES Premium : REFRIGERANT Hydrofluorocarbon HFC-134A
FRESH AIR FILTER for HVAC
STORAGE POCKET, DOOR Molded Plastic, Full Width; Mounted on Passenger Door
LOW WASHER FLUID INDICATOR
CAB INTERIOR TRIM Deluxe; : "A" PILLAR COVER Molded Plastic : CAB INTERIOR TRIM PANELS Molded Plastic, Full Height; All Exposed Interior Sheet Metal is Covered : CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets and Retainer Nets and CB Radio Pocket : DOME LIGHT, CAB Rectangular, Door Activated, Timed Theater Dimming, Center Mounted, Integral to Console : DOOR TRIM PANELS Molded Plastic; Driver and Passenger Doors : HEADLINER Vinyl : INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section, Hidden Cup Holder (Pull-Out) : STORAGE POCKET, DOOR (1) Molded Plastic, Full-Length; Driver Door : SUN VISOR (2) Padded Vinyl with Driver Side Toll Ticket Strap, Integral to Console
CAB REAR SUSPENSION Air Bag Type
WHEELS, FRONT DISC; 19.5" Painted Steel, 4 Hand Hole, 8-Stud (275 MM BC) Hub Piloted, Flanged Nut, Metric Mount, 6.75 DC Rims; With Steel Hubs Includes : PAINT IDENTITY, FRONT WHEELS White : WHEEL SEALS, FRONT Grease Lubricated, Includes Wheel Bearings
WHEELS, REAR DUAL DISC; 19.5" Painted Steel, 4 Hand Hole, 8-Stud (275 MM BC) Hub Piloted, Flanged 0 Nut, Metric Mount, 6.75 DC Rims; With Steel Hubs Includes : PAINT IDENTITY, REAR WHEELS White : WHEEL SEALS, REAR Oil Lubricated, Includes Wheel Bearings
BDY INTG, REMOTE POWER MODULE Mounted Under Cab or On Battery Box; Up to 6 Outputs & 6 Inputs, Max. 20 amp. per Channel, Max. 80 amp. Total (Includes 1 Switch Pack With Latched Switches)
TIRE,FRONT (2) 245/70R19.5 AH11 (HANKOOK) 625 rev/mile, load range G, 14 ply
TIRE,REAR (4) 245/70R19.5 DH01 (HANKOOK) 622 rev/mile, load range G, 14 ply
Optional item: A price shall be shown as an optional item for chassis air brakes in lieu of hydraulic.
All warranties shall be listed and included.
Minimum Equipment Specifications for Equipment
Body, Hoist, and Lighting:
Body length shall be 10 feet.
Front/Side/ Rear Height shall be 51"/16"/22"

Front Bulkhead and cab shield to be one-piece, integral design, eliminating welds. fabricated from 10 gauge A1011 Grade 50 steel
Front Bulkhead shall be fabricated from 10 gauge A1011 Grade 50 steel
Drop-sides shall be 12 gauge and have a single release handle
The sides and front and rear pillars shall be dirt shedding design
All exterior welds shall be continuous to prevent pockets for corrosion
Drop-Sides shall be of the single lever, quick-drop design for easy, "one-man" operation
Tailgate shall have a single upper release lever and shall be offset to curb side for operator safety and for superior ergonomics
The spring-loaded upper release mechanism shall be recessed within the boxed top section of the tailgate to prevent damage during use.
Tailgate shall be fabricated of 10 GA A1011 grade 50 steel
Tailgate shall have 3/8" A1011 Grade 50 steel end plates
Tailgate shall be dirt shedding design
Tailgate top hinge pins shall be 1-1/4" C1045 cold rolled steel shaft, and shall be grease zerk lubricated
Lower latch pins are C1045 1-1/4" cold rolled steel shaft
Latch fingers shall be flame-cut A1011 steel, 1" thick
Tailgate lower release mechanism shall be grease zerk lubricated
The tailgate shall have high strength, adjustable 3/8" chain provided to hold the tailgate open for spreading aggregate material
Floor shall be 7 GA A1011 50,000 PSI yield strength, 65,000 PSI tensile strength
The understructure shall be a western, cross memberless design for reduced weight, easier clean up and lower body floor height
Longsills shall be fabricated, trapezoidal design which is stronger than channel type and has greater bridging effect to eliminate longsills distortion during the welding process.
Longsills shall be fabricated from 7 GA A1011 steel
Longsills shall be 7" height maximum for lower overall floor height
Rear apron shall be 6" high, full-width design and fabricated in 10 GA A1011 Grade 50 steel
Rear apron design shall provide more strength across the rear of the dump body
Hoist shall have NTEA rating for performance class "C" and be able to lift a minimum of 10 tons.
Unit shall be standard double acting cylinder, single stage cylinder
Cylinder shall be a minimum of 5-1/2" with stroke minimum of 15-1/4"
Cylinder shaft diameter shall be a minimum of 2" and shall be chromed
Dumping angle shall be a minimum of 45 to 50 degrees
Hoist should include a full-length subframe. Sub-frame shall be fabricated with C channel rails
Rear hinge pins shall be steel shaft with grease zerks
Unit shall have a body prop to support empty weight of body
Rear light package shall include oval LED amber strobe and red STT lights mounted in rubber grommets recessed in rear corner posts
Standard factory chassis tail lights shall be relocated on rear of unit
Body shall include FMVSS 108 standard clearance lights and reflectors
Spreader spot light to be mounted on driver side rear of body with in line plug for removal during non-use periods
A weather resistant junction box for all body wiring and lights to be mounted on driver side rear of body
Two (2) self-contained amber LED strobe lights shall be mounted in front face of cab shield facing forward
Hydraulics:
Electronic Manual Spreader Control will utilize Technology to control the variable feed of conveyor
Feed rate knob will accommodate 9 different settings.

Control head will have a power switch with an indicator lamp to provide status on the operation of the controller.
Switch to allow the controller to produce a Blast function with programmable duration and a maintained unloads position for unloading the spreader or offering continuous operation during cleaning.
Controller will allow the attachment of a speed pickup to start and stop the Material spreading with vehicle motion.
Wiring harness for the spreader control shall be full factory assembled with Waterproof ends and covered in expanded nylon abrasion sleeve.
Separate fuse to be included into the controller to protect it in the event of a Short circuit deploying the inline fuse included in the installation
Controller shall be mounted in the cab with all hydraulic lines and valving outside of the operator's compartment.
A remote valve control lever with a center detest Sealed heavy-duty bonneted cable with feather touch
All wiring that leaves the cab, such as valve supply and speed pickup, to be secured with rubber covered steel clamps and include a watertight strain relief at the cab exit.
All other related fittings, hoses, oil, etc to provide a complete operable system
All hydraulic lines and controls to operate a rear spreader shall be included.
The PTO will be a cast iron, and constant mesh with pressure lubrication. The PTO will be mounted to the side of the transmission to provide Constant power output regardless of converter speed. The PTO will Include a direct mount flange for mounting the hydraulic pump.
Pump will be a gear type double acting pump with a Combination Valve reservoir the pump will direct mount to the PTO Flange Pump to be a Commercial grade to lift 8 to 10 ton
Trailer Hitch and Mud Flaps:
Rear trailer hitch to be a 1/2" plate with 2" receiver to be installed on the rear
A combination pintle / 2" ball hitch to be receiver style
Electric brake controller shall be mounted in the cab
Two "D" rings shall be attached to the plate for safety chain attachment
7 wire RV style trailer light plug shall be installed next to hitch plate
Rubber anti-sail mud flaps to be attached to the frame rail in front of rear tires
Rubber mud flaps to be attached to the dump body behind rear tires
Material Spreader:
The body is to be unpainted 12 gauge 304 stainless steel construction
Sides are to be sloped 45 degrees to ensure free flow of materials
The dimensions are to be 10' length, 44" height, and 50" width
Water level capacity to be approximately 3.9 cubic yards
The spreader top edge to be double crimped on all four sides with four corner lift system
The long sills to be one piece formed with slotted ends for easy removal of drive and idler shafts
The conveyor to be 14" wide with 1/4" x 3/4" crossbars, with a rear door opening of 10" to feed the spinner
Spreader to have built in chain guards to prevent entry of coarse material to the chain links
Spreader to have a cast iron gear box with 20:1 ratio
Both the drive shaft and idler shaft to be 1-1/4", with threaded adjusters with 3" travel, and 6 tooth sprockets
Spinner assembly shall have two internal adjustable baffles, three external baffles, and a 13" diameter poly spinner disc
Spinner shall be supported by a 1" drive shaft mounted to two self aligning, sealed, relubable flange bearings
Spinner assembly to be retained by four bolts for easy removal
Manufacturer shall provide caution labels, decals, and any warnings necessary

Plow:
Plow should be equal to a Boss or Western heavy weight 10 foot straight plow with universal hitch mount. Plow should have the following equipment
Plow should be delivered with snow deflector
Smart touch controls
Smart touch attachment system
Full moldboard trip design
Heavy duty push frame and center section
Reinforced moldboard
Cast iron plow shoes
Dual Shock absorbers
Plow shall have a two year warranty

<p>General: Specifications for the City of West Lafayette Street Department for a conventional cab and single axle chassis outfitted with a hydraulic system to operate a <u>10 foot dump bed</u>. Also the truck is to be equipped with a <u>10 foot salt spreader</u> and a <u>12 foot snow plow</u>. (Reference within the specs to a brand name or manufacturer's name or specs is for reference only, and may be supplied with an approved substitute of equal or better quality). Equipment that is bid pursuant to these specifications shall be of equal quality and size, or greater, to those referenced, and are subject to approval by the purchaser. These are minimum specifications. If any part of an item that is not in compliance than an explanation can be provided on a separate sheet with the benefits of that item to the city. It will be up to the purchasers discretion on what items will be termed equal. Any items not listed on the exception sheet will be assumed to be part of the unit. Bidders must submit with their bid a complete specification on the unit they purpose to furnish. Original copies of vehicle specifications and literature must be provided with the bid. Fax copies or unreadable copies of literature or specifications will not be allowed.</p>
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<p>BUMPER, FRONT Full Width, Aerodynamic, Steel; 0.142" Material Thickness Includes Powder Coated Gray (Argent) Color</p>
<p>WHEELBASE RANGE To accommodate a 10 foot dump body with front PTO hydraulics. Cab to axle 84 inches.</p>
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<p>STEERING WHEEL 2-Spoke, 18" Diam., Black</p>
<p>STEERING GEAR {TRW (Ross) TAS-40} Power</p>
<p>DRIVESHAFT {Dana Spicer} SPL140 in lieu of SPL90 Series</p>
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<p>EXHAUST BRAKE, DLOGIC {Diamond Logic} for Maxx Force DT Engines; Exhaust Brake, Electronically Activated</p>
<p>TAIL PIPE (1) Turn back Type, Non-Bright Finish, for Single Exhaust</p>
<p>SWITCH, FOR EXHAUST 2 Position, Lighted & Latching, ON/OFF Type, Mounted in IP, Inhibits Diesel 2/0 2 Particulate Filter Regeneration as Long as Switch is in ON Position</p>
<p>ELECTRICAL SYSTEM 12-Volt, Standard Equipment</p>

Includes : BATTERY BOX Steel; Mounted Left Side, Under Cab : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab : FUSES, ELECTRICAL SAE Blade-Type : HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever : HORN, ELECTRIC Single : JUMP START STUD Located on Positive Terminal of Outermost Battery : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light : RUNNING LIGHT (2) Daytime, Included With Headlights : STARTER SWITCH Electric, Key Operated : STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector : TURN SIGNAL SWITCH Self-Cancelling with Lane Change Feature : TURN SIGNALS, FRONT Includes Reflectors and Auxiliary Side Turn Signals, Solid State Flashers; Flush Mounted : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever : WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted : WIRING, CHASSIS Color Coded and Continuously Numbered
ALTERNATOR {Leece-Neville 8LHP2170PH} Brush Type; 12 Volt 130 Amp. Capacity, Pad Mounted
BODY BUILDER WIRING Back of Standard Cab at Left Frame or Under Cab at Left Frame; 2/0 2 Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn
ELECTRIC TRAILER BRAKE/LIGHTS Accommodation Package to Rear of Frame; for Separate Trailer Stop, 0/2 2 Tail, Turn, Marker Light Circuits; Includes Electric Trailer Brake accommodation package With Cab Connections for Mounting Customer Installed Electric Brake Unit, Less Trailer Socket
TAIL LIGHT WIRING MODIFIED Includes: Wiring for Standard Lt & Rt Tail Lights; Separate 8.0' of Extra Cable
BATTERY SYSTEM Maintenance-Free, (3) 12-Volt 1950CCA Total 43/12 55
RADIO AM/FM Stereo With Weather band, Clock, Includes Multiple Dual Cone Speakers : SPEAKERS IN CAB (2) Dual-Cone with Deluxe Interior, equipped with power source for FM 2 way Radio.
Wiring for Lt & Rt Body Mounted Tail Lights
BACK-UP ALARM Electric, 102 DBA
HORN, AIR Black, Single Trumpet, Air Solenoid Operated, Mounted Behind Bumper on Right Rail
WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time
HEADLIGHTS Halogen; Composite Aero Design for Two Light System; Includes Daytime Running Lights
TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on Back-up Lights
STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt; less Thermal Over-Crank Protection -30/0 - 30
INDICATOR, LOW COOLANT LEVEL With Audible Alarm
ALARM, PARKING BRAKE Electric Horn Sounds in Repetitive Manner When Vehicle Park Brake is

"NOT" Set, With Ignition "OFF" and any Door Opened
CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III With Trip Indicators, Replaces All Fuses Except For 5-Amp Fuses
GRILLE Chrome
INSULATION, UNDER HOOD for Sound Abatement
INSULATION, SPLASH PANELS for Sound Abatement
FRONT END Tilting, Fiberglass, With Three Piece Construction
PAINT TYPE Base Coat/Clear Coat, 1-2 Tone
ENGINE, DIESEL , 325 HP, 620 lb-ft Torque @ 1400 RPM, 2600 RPM 0/0 0 Governed Speed, # 2 Bell Housing Includes : COLD STARTING EQUIPMENT Intake Manifold Electric Grid Heater with Engine ECM Control : CRUISE CONTROL Electronic; Controls Integral to Steering Wheel : ENGINE OIL DRAIN PLUG Magnetic : ENGINE SHUTDOWN Electric, Key Operated : FAN Optimized Position : FUEL/WATER SEPARATOR and FUEL FILTER in a Single Assembly; With Water-in-Fuel Sensor; Mounted on Engine : GOVERNOR Road Speed, Electronic : OIL FILTER, ENGINE Spin-On Type FAN DRIVE {Borg-Warner SA85} Viscous Screw On Type 3/0 3 Includes : FAN Nylon
FEDERAL EMISSIONS for 2011
RADIATOR Aluminum; 2-Row, Cross Flow, Over Under System, 717 Sq In Louvered, With 313 Sq In Charge. Radiator to accommodate front mount hydraulic system.
Air Cooler. With In-Tank Transmission Cooler Includes DEAERATION SYSTEM with Surge Tank
AIR CLEANER Single Element, with Integral Snow Valve and In-Cab Control 2/0 : GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted
THROTTLE, HAND CONTROL Engine Speed Control for PTO; Electronic, Stationary Pre-Set, Two Speed Settings; Mounted on Steering Wheel
ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls; With Ignition Switch Control for post 2011 Emissions Electronic Engines
BLOCK HEATER, ENGINE {Phillips} 120 Volt/1250 Watt; With "Y" Cord From Socket in Standard Location, 4/0 4 With Provision in Oil Pan For a Dealer Installed Oil Pan Heater, With Extended Life Coated Oil Pan, for I6 Engines Includes : BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door EXPANDED ENGINE TEMP EFFECTS to Allow Higher Engine Operating Temperature Range; Includes Nylon Surge Tank and 15 psi Pressure Cap
TRANSMISSION, AUTOMATIC {ALLISON 3500_RDS_P} 4th Generation Controls; Wide Ratio, 5-Speed, With 162/72 234 Overdrive; On/Off Hwy; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 80,000-lb GVW & GCW Max. Includes : OIL FILTER, TRANSMISSION Mounted on Transmission : TRANSMISSION OIL PAN Magnet in Oil Pan
TRANSMISSION SHIFT CONTROL {ALLISON} Push-Button Type; for Allison 3000 & 4000 Series

<p>Transmission SHIFT CONTROL PARAMETERS WT-Allison S-4 Economy Programming in Primary and Allison Performance Programming in Secondary Live Hydraulics</p>
<p>TRANSMISSION OIL {Castrol Tran Synd} Synthetic; 29 thru 42 Pints 0/0 0</p>
<p>ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS); General Purpose Trucks, Construction 0/0 0</p>
<p>PTO CONTROL, DASH MOUNTED For Customer Provided PTO; Includes Switch, Electric/Air Solenoid, Piping 3/0 3 and Wiring</p>
<p>AXLE, REAR, SINGLE {Dana Spicer 17060D} Single Reduction, 32,500-lb Capacity, With Driver Controlled 0/183 183 Locking Differential, With "190" Wheel Ends Includes : REAR AXLE DRAIN PLUG (1) Magnetic, For Single Rear Axle</p>
<p>SUSPENSION, RR, SPRING, SINGLE Vari-Rate; 32,500-lb Capacity 0/31 31</p>
<p>FUEL/WATER SEPARATOR With Thermostatic Fuel Temperature Controlled Electric Heater, and Filter 5/0 5 Restriction/Change Indicator, Includes Standard Equipment Water-in-Fuel Sensor</p>
<p>FUEL TANK Top Draw; D Style, Non Polished Aluminum, 50 U.S. Gal., 189 L Capacity, 16" Tank Depth, With -44/-12 -56 Quick Connect Outlet, Mounted Left Side, Under Cab</p>
<p>Conventional Truck Cab to be White with Gray Interior : FLOOR COVERING Rubber, Black : GLASS, ALL WINDOWS Tinted : GRAB HANDLE, CAB INTERIOR (1) "A" Pillar Mounted, Passenger Side : STEP (2) One Step Per Door</p>
<p>GAUGE CLUSTER English With English Electronic Speedometer Includes : GAUGE CLUSTER (5) Engine Oil Pressure (Electronic), Water Temperature (Electronic), Fuel (Electronic), Tachometer (Electronic), Voltmeter : ODOMETER DISPLAY, Miles, Trip Miles, Engine Hours, Trip Hours, Fault Code Readout : WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible) GAUGE, OIL TEMP, ALLISON TRAN 1/0 1 GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} With Black Bezel Mounted in Instrument Panel 2/0 2 IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster</p>
<p>SEAT, DRIVER {National 2000} Air Suspension, High Back With Integral Headrest, Vinyl, Isolated, With 2 1/0 1 Position Front Cushion Adjustment, -3 to +14 Degree Seat Back Adjustment, Single Chamber Air Lumbar Support Includes : SEAT BELT 3-Point, Lap and Shoulder Belt Type SEAT, PASSENGER {National} Air-Suspension, High Back With Integral Headrest, Vinyl, Isolated, With 2 52/28 80 Position Front Cushion Adjustment, -3 to +14 Degree Seat Back Adjustment, Single Chamber Air Lumbar Support Includes : SEAT BELT 3-Point, Lap and Shoulder Belt Type</p>
<p>MIRRORS (2) {Lang Mekra} Styled; Rectangular, 7.09" x 15.75", Brackets Breakaway Type, With 102" Wide 9/0 9 Spacing, With Integral Convex Both Sides, With All Heated Heads, Thermostatically Controlled, With Clearance</p>

Lights LED, Powered Both Sides, Flat Glass Only
GRAB HANDLE (2) Black, Aluminum; for Cab Entry Mounted Left and Right
ARM REST, RIGHT, DRIVER SEAT
ARM REST, LEFT, PASSENGER SEAT
CAB SOUND INSULATION Includes Dash Insulator and Engine Cover Insulator
INSTRUMENT PANEL Center Section, Ergonomic Panel
WINDOW, POWER And Power Door Locks, Front, Left and Right
AIR CONDITIONER Blend-Air} With Integral Heater & Defroster Includes : HEATER HOSES Premium : REFRIGERANT Hydrofluorocarbon HFC-134A
FRESH AIR FILTER for HVAC
STORAGE POCKET, DOOR Molded Plastic, Full Width; Mounted on Passenger Door
LOW WASHER FLUID INDICATOR
CAB INTERIOR TRIM Deluxe; : "A" PILLAR COVER Molded Plastic : CAB INTERIOR TRIM PANELS Molded Plastic, Full Height; All Exposed Interior Sheet Metal is Covered : CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets and Retainer Nets and CB Radio Pocket : DOME LIGHT, CAB Rectangular, Door Activated, Timed Theater Dimming, Center Mounted, Integral to Console : DOOR TRIM PANELS Molded Plastic; Driver and Passenger Doors : HEADLINER Vinyl : INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section, Hidden Cup Holder (Pull-Out) : STORAGE POCKET, DOOR (1) Molded Plastic, Full-Length; Driver Door : SUN VISOR (2) Padded Vinyl with Driver Side Toll Ticket Strap, Integral to Console
CAB REAR SUSPENSION Air Bag Type
WHEELS, FRONT DISC; 22.5" Painted Steel, 4 Hand Hole, 8-Stud (275 MM BC) Hub Piloted, Flanged Nut, Metric Mount, 6.75 DC Rims; With Steel Hubs Includes : PAINT IDENTITY, FRONT WHEELS White : WHEEL SEALS, FRONT Grease Lubricated, Includes Wheel Bearings
WHEELS, REAR DUAL DISC; 22.5" Painted Steel, 4 Hand Hole, 8-Stud (275 MM BC) Hub Piloted, Flanged 0 Nut, Metric Mount, 6.75 DC Rims; With Steel Hubs Includes : PAINT IDENTITY, REAR WHEELS White : WHEEL SEALS, REAR Oil Lubricated, Includes Wheel Bearings
BDY INTG, REMOTE POWER MODULE Mounted Under Cab or On Battery Box; Up to 6 Outputs & 6 Inputs, Max. 20 amp. per Channel, Max. 80 amp. Total (Includes 1 Switch Pack With Latched Switches)
TIRE,FRONT (2) 11.00R22.5 AH11 (HANKOOK) 625 rev/mile, load range G, 14 ply
TIRE,REAR (4) 11.00R22.5 DH01 (HANKOOK) 622 rev/mile, load range G, 14 ply
Optional item: A price shall be shown as an optional item for chassis air brakes in lieu of hydraulic.
All warranties shall be listed and included.
Minimum Equipment Specifications for Equipment
Body, Hoist, and Lighting:
Body length shall be 10 feet.
Front/Side/ Rear Height shall be 51"/16"/22"

Front Bulkhead and cab shield to be one-piece, integral design, eliminating welds. fabricated from 10 gauge A1011 Grade 50 steel
Front Bulkhead shall be fabricated from 10 gauge A1011 Grade 50 steel
Drop-sides shall be 12 gauge and have a single release handle
The sides and front and rear pillars shall be dirt shedding design
All exterior welds shall be continuous to prevent pockets for corrosion
Drop-Sides shall be of the single lever, quick-drop design for easy, "one-man" operation
Tailgate shall have a hydraulic release lever mounted in cab.
Tailgate shall be fabricated of 10 GA A1011 grade 50 steel
Tailgate shall have 3/8" A1011 Grade 50 steel end plates
Tailgate shall be dirt shedding design
Tailgate top hinge pins shall be 1-1/4" C1045 cold rolled steel shaft, and shall be grease zerks lubricated
Lower latch pins are C1045 1-1/4" cold rolled steel shaft
Latch fingers shall be flame-cut A1011 steel, 1" thick
Tailgate lower release mechanism shall be grease zerks lubricated
The tailgate shall have high strength, adjustable 3/8" chain provided to hold the tailgate open for spreading aggregate material
Floor shall be 7 GA A1011 50,000 PSI yield strength, 65,000 PSI tensile strength
The understructure shall be a western, cross memberless design for reduced weight, easier clean up and lower body floor height
Longsills shall be fabricated, trapezoidal design which is stronger than channel type and has greater bridging effect to eliminate longsills distortion during the welding process.
Longsills shall be fabricated from 7 GA A1011 steel
Longsills shall be 7" height maximum for lower overall floor height
Rear apron shall be 6" high, full-width design and fabricated in 10 GA A1011 Grade 50 steel
Rear apron design shall provide more strength across the rear of the dump body
Hoist shall have NTEA rating for performance class "C" and be able to lift a minimum of 10 tons.
Unit shall be standard double acting cylinder, single stage cylinder
Cylinder shall be a minimum of 5-1/2" with stroke minimum of 15-1/4"
Cylinder shaft diameter shall be a minimum of 2" and shall be chromed
Dumping angle shall be a minimum of 45 to 50 degrees
Hoist should include a full-length subframe. Sub-frame shall be fabricated with C channel rails
Rear hinge pins shall be steel shaft with grease zerks
Unit shall have a body prop to support empty weight of body
Rear light package shall include oval LED amber strobe and red STT lights mounted in rubber grommets recessed in rear corner posts
Standard factory chassis tail lights shall be relocated on rear of unit
Body shall include FMVSS 108 standard clearance lights and reflectors
Spreader spot light to be mounted on driver side rear of body with in line plug for removal during non-use periods
A weather resistant junction box for all body wiring and lights to be mounted on driver side rear of body
Two (2) self-contained amber LED strobe lights shall be mounted in front face of cab shield facing forward
Hydraulics:
Electronic Manual Spreader Control will utilize Technology to control the variable feed of conveyor
Feed rate knob will accommodate 9 different settings.
Control head will have a power switch with an indicator lamp to provide status on the operation of the controller.

Switch to allow the controller to produce a Blast function with programmable duration and a maintained unloads position for unloading the spreader or offering continuous operation during cleaning.
Controller will allow the attachment of a speed pickup to start and stop the Material spreading with vehicle motion.
Wiring harness for the spreader control shall be full factory assembled with Waterproof ends and covered in expanded nylon abrasion sleeve.
Separate fuse to be included into the controller to protect it in the event of a Short circuit deploying the inline fuse included in the installation
Controller shall be mounted in the cab with all hydraulic lines and valving outside of the operator's compartment.
A remote valve control lever with a center detest Sealed heavy-duty bonneted cable with feather touch
All wiring that leaves the cab, such as valve supply and speed pickup, to be secured with rubber covered steel clamps and include a watertight strain relief at the cab exit.
All other related fittings, hoses, oil, etc to provide a complete operable system
All hydraulic lines and controls to operate a rear spreader shall be included.
The PTO will be a cast iron, and constant mesh with pressure lubrication. The PTO will be front mounted to provide Constant power output regardless of converter speed. The PTO will Include a direct mount flange for mounting the hydraulic pump.
The pump is to be direct drive from the engine. Frame of the chassis must have extension to provide for mounting. Manufacture must make necessary radiator accommodations.
Pump will be a gear type double acting pump with a Combination Valve reservoir the pump will direct mount to the PTO Flange Pump to be a Commercial grade to lift 8 to 10 ton
Trailer Hitch and Mud Flaps:
Rear trailer hitch to be a 1/2" plate with 2" receiver to be installed on the rear
A combination pintle / 2" ball hitch to be receiver style
Electric brake controller shall be mounted in the cab
Two "D" rings shall be attached to the plate for safety chain attachment
7 wire RV style trailer light plug shall be installed next to hitch plate
Rubber anti-sail mud flaps to be attached to the frame rail in front of rear tires
Rubber mud flaps to be attached to the dump body behind rear tires
Material Spreader:
The body is to be unpainted 12 gauge 304 stainless steel construction
Sides are to be sloped 45 degrees to ensure free flow of materials
The dimensions are to be 10' length, 44" height, and 50" width
Water level capacity to be approximately 3.9 cubic yards
The spreader top edge to be double crimped on all four sides with four corner lift system
The long sills to be one piece formed with slotted ends for easy removal of drive and idler shafts
The conveyor to be 14" wide with 1/4" x 3/4" crossbars, with a rear door opening of 10" to feed the spinner
Spreader to have built in chain guards to prevent entry of coarse material to the chain links
Spreader to have a cast iron gear box with 20:1 ratio
Both the drive shaft and idler shaft to be 1-1/4", with threaded adjusters with 3" travel, and 6 tooth sprockets
Spinner assembly shall have two internal adjustable baffles, three external baffles, and a 13" diameter poly spinner disc
Spinner shall be supported by a 1" drive shaft mounted to two self aligning, sealed, relubable flange bearings
Spinner assembly to be retained by four bolts for easy removal
Manufacturer shall provide caution labels, decals, and any warnings necessary

Plow:
Plow should be equal to a Boss or Western heavy weight 12 foot straight plow with universal hitch mount. Plow should have the following equipment
Plow should be delivered with snow deflector
Smart touch controls
Smart touch attachment system
Full moldboard trip design
Heavy duty push frame and center section
Reinforced moldboard
Cast iron plow shoes
Dual Shock absorbers
Plow shall have a two year warranty