

**DEPARTMENT OF PUBLIC WORKS
WHITMAN COUNTY
COLFAX, WASHINGTON 99111**

Bid for New, Current Model Year, 66,000 lb Truck Chassis

NOTICE TO ALL BIDDERS:

Please contact Whitman County Operations Manager, Brandon Kruger (509) 397-4622, if you have any questions.

Addendums:

All addendums will be posted on line. All bidders must access them at that site. www.whitmancounty.org Public Works Department, Road Bridge Maintenance.

Bid Closed: For Review Only

**WHITMAN COUNTY
STATE OF WASHINGTON
INSTRUCTIONS TO BIDDERS**

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SEALED BIDS will be received by the Board of County Commissioners of Whitman County, Washington, at its office in the Whitman County Courthouse, Colfax, Washington, until the **18th day of February, 2020 at 11:00 a.m.**, Pacific Time, at which time they will be opened and publicly read. Handicap access can be obtained by the Mill Street entrance to the courthouse. FAX BIDS WILL NOT BE ACCEPTED.

EACH BID shall be separately sealed in an envelope addressed to the Board of County Commissioners with the name of the bidder and item bid, including time and date of opening, written plainly on the outside of the envelope and mailed to Whitman County Commissioners, Whitman County Courthouse, Colfax, Washington 99111. (No FAX accepted).

The Board of County Commissioners reserves the right to reject any or all bids or to accept the bid in which in its estimation best serves the interest of Whitman County.

All applicable taxes must be shown when called for in the proposal.

No bidder may withdraw his bid after the hour set for the bid opening thereof, unless award is delayed for a period exceeding thirty (30) days.

It shall be the Dealer's responsibility to furnish Federal Excise Tax Exemption Certificate, when applicable.

A certificate statement shall be furnished to Whitman County on off-shore items in excess of \$2,500. R.C.W. per 39.25.020.

Payment will be made thirty (30) days after delivery and final acceptance by Whitman County. All interest costs incurred to bidder must be computed in the original price bid, as no further compensation will be made.

The following specifications are for the purpose of establishing the type of equipment desired; and in addition to these specifications, all equipment shall include all standard equipment and updated changes that are normally supplied by the manufacturer, as listed on manufacturer's brochure, at no additional cost to the County.

The price quoted shall include all mounting and transportation charges fully prepaid to and from the Whitman County Shop, Colfax, Washington. Purchase requires delivery date as stated from date of award.

Unit to be completely serviced and ready for use when delivered.

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Truck Chassis Specifications

The following specification references a 2021 model year Western Star 4700 SF chassis. Deviations or alternatives from the provisions of these specifications will be considered, to permit manufacturers to follow their standard manufacturing processes. Such deviations or alternatives will be approved, however, only in the sole discretion of the County and only if, in their opinion, they do not adversely affect strength, efficiency, effectiveness or life of the equipment. Compliance with or deviation from the following specifications shall be noted and a manufacturer's build sheet shall be included with bidder's response.

Vehicle Configuration	List alternate specifications, models, and price differences.
4700 SET-FORWARD FRONT AXLE CHASSIS	
2021 MODEL YEAR SPECIFIED OR CURRENT MODEL YEAR	
SET FORWARD AXLE - TRUCK	
TRAILER TOWING PROVISION AT END OF FRAME	
LH PRIMARY STEERING LOCATION	
General Service	
TRUCK/TRAILER CONFIGURATION	
CONSTRUCTION SERVICE	
GOVERNMENT BUSINESS SEGMENT	
DIRT/SAND/ROCK COMMODITY	
MAXIMUM 8% EXPECTED GRADE	
WESTERN STAR VOCATIONAL WARRANTY	
EXPECTED FRONT AXLE(S) LOAD : 20000.0 lbs	
EXPECTED REAR DRIVE AXLE(S) LOAD : 46000.0 lbs	
EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 66000.0 lbs	
Truck Service	
FRONT PLOW/END DUMP BODY	
EXPECTED TRUCK BODY LENGTH : 15.0 ft	
Tractor Service	
FRAMED END DUMP (NON-TRANSFER) TRAILER	
SINGLE (1) TRAILER	
Engine	
DETROIT DD13 12.8L 470 HP @ 1625 RPM, 1900 GOV RPM, 1650 LB/FT @ 975 RPM	
Electronic Parameters	
70 MPH ROAD SPEED LIMIT	
CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT	

PTO MODE ENGINE RPM LIMIT - 2100 RPM	
PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED OR PARK BRAKE NOT APPLIED	
PTO MODE CLUTCH OVERRIDE - CLUTCH ENABLED	
PTO RPM WITH CRUISE SET SWITCH - 900 RPM	
PTO RPM WITH CRUISE RESUME SWITCH - 1200 RPM	
PTO MODE CANCEL VEHICLE SPEED - 5 MPH	
PTO MODE RPM INCREMENT - 25 RPM	
PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND	
FUEL DOSING OF AFTERTREATMENT ENABLED IN PTO MODE- CLEANS HYDROCARBONS AT HIGH TEMPERATURES ONLY	
TWO REMOTE PTO SPEEDS	
PTO SPEED 1 SETTING - 900 RPM	
PTO SPEED 2 SETTING - 1200 RPM	
SOFT CRUISE CONTROL ENABLED	
PTO MINIMUM RPM - 700	
TEMPERATURE OVERRIDE BELOW 20 DEGREES AND ABOVE 70 DEGREES AMBIENT TEMPERATURE	
	NO SHUT DOWN , SNOW PLOW TRUCK , NO TEMP. OVERRIDE 80K-998
ENABLE DPF REGEN ZONE 1 WITH AUTO ENGINE RPM ELEVATE FOR EXTENDED IDLE	
Engine Equipment	
2016-2019 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION	
2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)	
STANDARD OIL PAN	
ENGINE MOUNTED OIL CHECK AND FILL	
OIL SAMPLE TEST FITTING ON OIL FILTER MODULE	
ONE PIECE VALVE COVER	
SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER WITH Safety ELEMENT, PASSIVE PRECLEANER AND INSIDE/OUTSIDE AIR WITH SNOW DOOR	
DR 12V 160 AMP 36-SI BRUSHLESS QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE	
(3) DTNA GENUINE, FLOODED STARTING, MIN 3000CCA, 555RC, THREADED STUD BATTERIES	
BATTERY BOX FRAME MOUNTED	
SINGLE BATTERY BOX FRAME MOUNTED LH SIDE BACK OF CAB	
WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN	
NON-POLISHED BATTERY BOX COVER WITH 3/16 INCH TETHER ON FORWARD SIDE OF COVER/BOX	

POSITIVE LOAD DISCONNECT WITH DASH MOUNTED CONTROL SWITCH	
POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	
LOW VOLTAGE BATTERY DISCONNECT AT 12.3 VOLTS FOR ISOLATED CIRCUITS WITH LOCAL ALARM	
EATON ADVANTAGE 15-1/2 INCH SELF ADJUSTING CLUTCH	
BABCOCK 2-PIECE CLUTCH BRAKE NOTE: 1-PIECE CLUTCH BRAKES WILL NOT BE ACCEPTED.	
ZERK FITTING WITH EXTENSION HOSE AT CLUTCH RELEASE BEARING	
HYDRAULIC CLUTCH CONTROL	
BW MODEL BA-921 19.0 CFM SINGLE CYLINDER AIR COMPRESSOR WITH Safety VALVE	
AIR COMPRESSOR DISCHARGE LINE	
ELECTRONIC ENGINE INTEGRAL WARNING AND DERATE PROTECTION SYSTEM	
JACOBS COMPRESSION BRAKE	
RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	
ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH	
11 FOOT 06 INCH (138 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT	
STANDARD CURVE BRIGHT UPPER STACK(S)	
RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP	
13 GALLON DIESEL EXHAUST FLUID TANK	
100 PERCENT DIESEL EXHAUST FLUID FILL	
STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING	
NON-POLISHED ALUMINUM DIAMOND PLATE DIESEL EXHAUST FLUID TANK COVER	
LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION	
STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD	
BORG WARNER (KYSOR) REAR AIR ON/OFF ENGINE FAN CLUTCH	
AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED	
DDC SUPPLIED ENGINE MOUNTED FUEL FILTER/FUEL WATER SEPARATOR WITH WATER-IN-FUEL INDICATOR	
FULL FLOW OIL FILTER	
1500 SQUARE INCH ALUMINUM RADIATOR	

MOUNTING FOR FIREWALL MOUNTED SURGE TANK	
ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT	
GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT	
CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES	
HDEP FIXED RATIO COOLANT PUMP AND RADIATOR DRAIN VALVE	
LOWER RADIATOR GUARD	
1350 ADAPTER FLANGE FOR FRONT PTO PROVISION	
PHILLIPS-TEMRO 1500 WATT/115 VOLT BLOCK HEATER	
PHILLIPS-TEMRO 300 WATT/115 VOLT OIL PREHEATER	
CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR	
ALUMINUM FLYWHEEL HOUSING	
DELCO 12V MOD 3.175-39MT+ OCP STARTER WITH THERMAL PROTECTION AND INTEGRATED MAGNETIC SWITCH	
Transmission	
EATON FULLER RTLO-16918B TRANSMISSION	
Transmission Equipment	
NO REAR PTO TRANSMISSION RANGE	
ALUMINUM CLUTCH HOUSING	
CUSTOMER INSTALLED CHELSEA 489 SERIES PTO	
PTO MOUNTING, BOTTOM OF MAIN TRANSMISSION	
MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION FILL AND DRAIN, AXLE(S) FILL AND DRAIN	
PAINTED SHIFT LEVER, SOLID LINKAGE	
WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK	
SYNTHETIC TRANSMISSION LUBE	
Front Axle and Equipment	
MFS-20-133A 20,000# FL1 71.0 INCH KPI/3.74 INCH DROP SINGLE FRONT AXLE	
MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	
NON-ASBESTOS FRONT BRAKE LINING	
CONMET CAST IRON FRONT BRAKE DRUMS	
FRONT BRAKE DUST SHIELDS	
FRONT OIL SEALS	
VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL	
STANDARD SPINDLE NUTS FOR ALL AXLES	
HALDEX AUTOMATIC FRONT SLACK ADJUSTERS	
STANDARD KING PIN BUSHINGS	
TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR	
POWER STEERING PUMP	
4 QUART POWER STEERING RESERVOIR	

OIL/AIR POWER STEERING COOLER	
SYNTHETIC 75W-90 FRONT AXLE LUBE	
Front Suspension	
20,000# FLAT LEAF FRONT SUSPENSION	
THREADED SPRING PINS AND BUSHINGS - FRONT SUSPENSION	
FRONT SHOCK ABSORBERS	
Rear Axle and Equipment	
RT-46-160P 46,000# R-SERIES TANDEM REAR AXLE	
4.10 REAR AXLE RATIO	
IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING	
MXL 18T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	
MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES	
DRIVER CONTROLLED TRACTION DIFFERENTIAL - BOTH TANDEM REAR AXLES	
(1) INTERAXLE LOCK VALVE, (1) DRIVER CONTROLLED DIFFERENTIAL LOCK FORWARD-REAR AXLE VALVE AND (1) REAR-REAR AXLE VALVE	
INDICATOR LIGHT FOR EACH INTERAXLE LOCKOUT SWITCH	
INDICATOR LIGHT FOR EACH DRIVER CONTROLLED TRACTION DEVICE SWITCH	
MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	
NON-ASBESTOS REAR BRAKE LINING	
ASPHALT SPREADER CLEARANCE REAR BRAKE GEOMETRY	
CONMET CAST IRON REAR BRAKE DRUMS	
REAR BRAKE DUST SHIELDS	
REAR OIL SEALS	
BENDIX EVERSURE LONGSTROKE 2-DRIVE AXLES SPRING PARKING CHAMBERS	
HALDEX AUTOMATIC REAR SLACK ADJUSTERS	
SYNTHETIC 75W-90 REAR AXLE LUBE	
Rear Suspension	
CHALMERS 854 46,000# REAR SUSPENSION	
CHALMERS 800 SERIES - HIGH RIDE HEIGHT	
54 INCH AXLE SPACING	
FORE/AFT AND TRANSVERSE CONTROL RODS	
REAR SHOCK ABSORBERS - TWO AXLES (TANDEM)	
Brake System	
WABCO 4S/4M ABS	
REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES	
FIBER BRAID PARKING BRAKE HOSE	

STANDARD BRAKE SYSTEM VALVES		
RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
BW AD-9SI BRAKE LINE AIR DRYER WITH HEATER		
BENDIX OIL COALESCING FILTER FOR AIR DRYER		
AIR DRYER MOUNTED OUTBOARD ON RH RAIL		
STEEL AIR TANKS MOUNTED AFT INSIDE AND/OR BELOW FRAME JUST FORWARD OF REAR SUSPENSION		
CLEAR FRAME RAILS 36 INCHES FROM BACK OF CAB INSIDE AND BELOW BOTH FRAME RAILS		
	NOTE THIS 36" BOC HAS TO BE CLEAR OF CENTER SUPPORT BEARINGS, AIR TANKS, NO CROSSMEMBER IN THIS AREA FOR SANDER SHOOT.	
PULL CABLES ON ALL AIR RESERVOIR(S)		
Trailer Connections		
AIR CONNECTIONS TO END OF FRAME WITH GLAD HANDS FOR TRUCK AND DUST COVERS		
PRIMARY CONNECTOR/RECEPTACLE WIRED FOR SEPARATE STOP/TURN, ABS CENTER PIN POWERED THROUGH IGNITION		
SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED BACK OF CAB/BACK OF SLEEPER		
SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME		
PAINTED STRADDLE BRACKET LOCATED AT BACK OF CAB/BACK OF SLEEPER		
Wheelbase & Frame		
5050MM (199 INCH) WHEELBASE		
1/2X3.64X11-7/8 INCH STEEL FRAME (12.7MMX301.6MM/0.5X11.88 INCH) 120KSI		
PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION		
BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW		
2650MM (104 INCH) REAR FRAME OVERHANG		
24 INCH INTEGRAL FRONT FRAME EXTENSION. NOTE: BOLT-ON FRAME EXTENSIONS WILL NOT BE ACCEPTED.		
CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 117.6 in		
CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 114.6 in		
CALC'D FRAME LENGTH - OVERALL : 354.81		
FRAME HEIGHT TOP FRONT UNLADEN : 44.33 in		
FRAME HEIGHT TOP FRONT LADEN : 41.12 in		

FRAME HEIGHT TOP REAR UNLADEN : 46.33 in		
FRAME HEIGHT TOP REAR LADEN : 42.51 in		
CALCULATED FRAME SPACE LH SIDE : 23.22 in		
CALCULATED FRAME SPACE RH SIDE : 163.45 in		
CALC'D SPACE AVAILABLE FOR DECKPLATE : 117.78 in		
SQUARE END OF FRAME		
STANDARD WEIGHT ENGINE CROSSMEMBER		
5 PIECE BOLTED BACK OF TRANSMISSION CROSSMEMBER		
STANDARD MIDSHIP #1 CROSSMEMBER(S)		
	NEED CLEAR 41" BACK OF CAB FOR SANDER SHOOT , NO AIR TANKS , NO AIR DRYER , NO CENTER SUPPORT BEARING IN THIS AREA.	
STANDARD REARMOST CROSSMEMBER		
HEAVY DUTY SUSPENSION CROSSMEMBER		
STANDARD WEIGHT REAR SUSPENSION CROSSMEMBER		
Chassis Equipment		
14 INCH PAINTED STEEL BUMPER WITH CHIP GUARD		
FRONT TOW HOOKS - FRAME MOUNTED		
BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
BETTS B-25 PAINTED MUDFLAP BRACKETS		
WESTERN STAR LOGO BLACK MUDFLAPS		
FRONT ANTI-SPRAY CAB MOUNTED MUDFLAPS		
HUCK-SPIN ROUND COLLAR CHASSIS FASTENERS EXCEPT REAR CLOSING CROSSMEMBER		
EXTERIOR HARNESSSES WRAPPED IN ABRASION TAPE		
D15-16004-000 CENTER PUNCH TO MARK CENTERLINE OF REAR SUSPENSION ON FRAME WEB		
Fuel Tanks		
100 GALLON/378 LITER ALUMINUM FUEL TANK - LH		
25 INCH DIAMETER FUEL TANK(S)		
PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
FUEL TANK(S) FORWARD		
PLAIN STEP FINISH		
FUEL TANK CAP(S)		
DAVCO 487 FUEL/WATER SEPARATOR WITH ESOC AND 12 VOLT PREHEATER		
EQUIFLO INBOARD FUEL SYSTEM		
HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
NO FUEL COOLER		
Tires		

MICHELIN XZY-3 385/65R22.5 18 PLY RADIAL FRONT TIRES	
MICHELIN XDS2 11R24.5 16 PLY RADIAL REAR TIRES	
Hubs	
CONMET PRESET PLUS PREMIUM IRON FRONT HUBS	
CONMET PRESET PLUS PREMIUM IRON REAR HUBS	
Wheels	
ALCOA LVL ONE 82462X 22.5X12.25 10-HUB PILOT 4.68 INSET 10-HAND ALUMINUM DISC FRONT WHEELS	
ACCURIDE 28827 24.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC REAR WHEELS	
NO FRONT AXLE WHEEL/HUB COVER	
FRONT WHEEL MOUNTING NUTS	
REAR WHEEL MOUNTING NUTS	
Cab Exterior	
110 INCH BBC STEEL CONVENTIONAL CAB	
WESTERN STAR PAINTED ALUMINUM CAB SKIRT	
AIR CAB MOUNTS WITH CHECK VALVE	
STAINLESS STEEL SILL PLATES WITH RACEWAY	
NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE	
NO SLEEPER DOOR	
FRONT FENDERS	
2 INCH FENDER EXTENSIONS	
LH AND RH EXTERIOR GRAB HANDLES WITH RUBBER INSERT AND LH AND RH INTERIOR GRAB HANDLES MOUNTED TO A POST	
STATIONARY BRIGHT FINISH GRILLE	
CHROME HOOD MOUNTED AIR INTAKE GRILLE	
GALVANEALD STEEL SEVERE SERVICE CAB	
FIBERGLASS HOOD	
TUNNEL/FIREWALL LINER	
DUAL HADLEY SD-978 26 INCH RECTANGULAR AIR HORNS	
DUAL ELECTRIC HORNS	
DUAL HORN SHIELDS	
ALL UNITS KEYED THE SAME WITH (3) KEYS, KEY CODE TO BE D540	
REAR LICENSE PLATE MOUNT END OF FRAME	
SWITCH, INDICATOR LIGHT AND WIRING FOR (2) CUSTOMER FURNISHED BEACONS	
SINGLE RECTANGULAR H4 HALOGEN HEADLIGHTS WITH BRIGHT BEZELS	
LED CHROME BULLET MARKER LIGHTS	
WIRING AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LAMPS WITH DUAL CONNECTIONS AT BUMPER	
DAYTIME RUNNING LIGHTS	

INDIVIDUAL LED STOP/TURN/BACKUP LIGHTS GROMMET MOUNTED OUTBOARD OF RAIL	
STANDARD FRONT TURN SIGNAL LAMPS	
(2) CHROME SWIVEL LED UTILITY LIGHTS MOUNTED LH AND RH HIGH ON PAINTED BRACKETS BACK OF CAB	
DUAL WEST COAST STAINLESS STEEL HEATED MIRRORS WITH LH AND RH REMOTE	
DOOR MOUNTED MIRRORS	
102 INCH EQUIPMENT WIDTH	
LH AND RH SUREPLUS 574 8 INCH BRIGHT FINISH HEATED CONVEX MIRRORS WITH SEPARATE ADJUSTMENT, MOUNTED BELOW MIRROR	
RH DOWN VIEW MIRROR	
STANDARD SIDE/REAR REFLECTORS	
RH AFTERTREATMENT SYSTEM CAB ACCESS WITH PLAIN DIAMOND PLATE COVER	
FIBERGLASS EXTERIOR SUN VISOR	
17.5X35 INCH LAMINATED SAFETY GLASS TINTED REAR WINDOW	
TINTED DOOR GLASS	
RH AND LH ELECTRIC POWERED WINDOWS	
LOWER RH DOOR WINDOW WITH FRESNEL LENS	
2-PIECE TINTED CURVED BONDED WINDSHIELD	
2 GALLON WINDSHIELD WASHER RESERVOIR WITH FLUID LEVEL INDICATOR, MOUNTED UNDER CAB, WITH REMOTE FILL	
Cab Interior	
GRAY VINYL BASE INTERIOR	
BLACK HARD TRIM	
BASE LEFT HAND DOOR TRIM	
BASE RIGHT HAND DOOR TRIM	
BLACK MATS WITH DOUBLE INSULATION	
ASH CUP AND (1) POWER OUTLET	
NO STORAGE-CAB INT, LH WALL, LOWER	
NO STORAGE-CAB INT, RH WALL, LOWER	
NO STORAGE-CAB INT, LH WALL, UPPER	
NO STORAGE-CAB INT, RH WALL, UPPER	
FORWARD ROOF MOUNTED CONSOLE	
14"X7.75" DOCUMENT POUCH MOUNTED ON BACK WALL BETWEEN SEATS	
LH AND RH DOOR MAP POCKETS	
(2) COAT HOOKS ON BACKWALL OF CAB	
(1) DOUBLE CUP HOLDER WITH CELL PHONE HOLDER LH OR RH DASH	

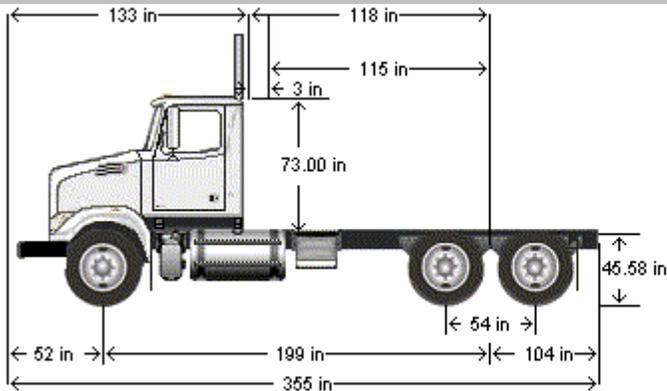
TWO-TONE CHARCOAL UPPER/COOL GRAY LOWER SOFT TOUCH WING DASH WITH BLACK DRIVER SIDE COSMETIC UNDER DASH COVER	
2-1/2 LB. FIRE EXTINGUISHER WITH B AND C RATINGS ONLY	
HEATER, DEFROSTER AND AIR CONDITIONER WITH CONSTANT TEMPERATURE CONTROL AND COSMETIC COVER	
HVAC DUCTING WITH FOAM MAIN FRESH AIR FILTER	
MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH	
NO AUXILIARY HVAC UNIT	
STANDARD HEATER PLUMBING WITH BALL SHUTOFF VALVES AT SUPPLY LINES ONLY	
VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR	
RADIATOR MOUNTED AIR CONDITIONER CONDENSER	
BINARY CONTROL, R-134A	
ADDITIONAL CAB SIDEWALL INSULATION	
AUTOMATIC SELF-RESET CIRCUIT BREAKERS/FUSES IN DASH POWER DISTRIBUTION BOXES AND FUSES IN AUXILIARY POWER DISTRIBUTION BOXES	
DOOR ACTIVATED DOME LIGHT, UNDER DASH LIGHT WITH LH AND RH DOOR MOUNTED COURTESY LIGHTS AND LH AND RH READING LIGHTS	
CAB DOOR LATCHES WITH MANUAL DOOR LOCKS	
(1) 12 VOLT POWER SUPPLY AND (2) USB PORTS MOUNTED IN DASH	
PREMIUM HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT, ADJUSTABLE SHOCK ABSORBER	
BASIC HIGH BACK NON SUSPENSION TOOL BOX PASSENGER SEAT	
DUAL DRIVER SEAT ARMRESTS, NO PASSENGER SEAT ARMRESTS	
BLACK MORDURA CLOTH DRIVER SEAT COVER	
BLACK MORDURA CLOTH PASSENGER SEAT COVER	
3 POINT DRIVER AND PASSENGER SEAT BELT RETRACTORS	
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	
4-SPOKE 18 INCH (450MM) BLACK STEERING WHEEL WITH SWITCHES	
DRIVER AND PASSENGER INTERIOR SUN VISORS	
Instruments & Controls	
NON-ADJUSTABLE SUSPENDED PEDALS	
ELECTRONIC FOOT ACCELERATOR	
ENGINE REMOTE INTERFACE WITHOUT INTERLOCKS	
BRIGHT ARGENT FINISH GAUGE BEZELS	
BLACK VINYL DRIVER INSTRUMENT PANEL	
BLACK VINYL CENTER INSTRUMENT PANEL	
LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM	

(1) TRACTOR AND (1) TRAILER BRAKE APPLICATION AIR GAUGE	
2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES	
INTAKE MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS	
97 DB BACKUP ALARM	
ELECTRONIC CRUISE CONTROL WITH CONTROLS ON STEERING WHEEL SPOKES	
KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY	
ICU4ME DRIVER MESSAGE CENTER WITH GRAPHICAL DISPLAY, BLACK FACE GAUGES, DIAGNOSTICS AND DATA LINKED	
HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH	
2 INCH ELECTRIC FUEL GAUGE	
FUEL FILTER RESTRICTION INDICATOR	
ENGINE REMOTE INTERFACE WITH MULTIPLE SET SPEEDS	
NO ADDITIONAL EXTRA SWITCH ACCUATORS	
CUSTOMER INTERFACE CONNECTOR LOCATED BETWEEN SEATS WITH CAPS	
NO PREWIRED HIGH POWER CIRCUIT	
ENGINE REMOTE INTERFACE CONNECTOR AT POWERTRAIN INTERFACE CONNECTOR	
DUAL REAR AXLE TEMPERATURE GAUGES WITH SENSOR SHIELD	
ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE	
ENGINE OIL TEMPERATURE GAUGE	
2 INCH TRANSMISSION OIL TEMPERATURE GAUGE	
ELECTRONIC OUTSIDE TEMPERATURE SENSOR DISPLAY IN DRIVER MESSAGE CENTER	
(1) DASH MOUNTED PTO SWITCH WITH INDICATOR LAMP FOR CUSTOMER INSTALLED PTO	
ELECTRIC ENGINE OIL PRESSURE GAUGE	
AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH AND USB AND AUXILIARY INPUTS, J1939	
ROOF/OVERHEAD CONSOLE MOUNTED RADIO	
(4) RADIO SPEAKERS IN CAB	
POWER AND GROUND WIRING FOR CB RADIO IN OVERHEAD CONSOLE AND TOP OF DASH WITH CB TRAY	
TOP OF DASH MOUNT CB RADIO PROVISION WITH PLATE AND STRAPS	
MULTI-BAND AM/FM/WB/CB LH MIRROR MOUNTED ANTENNA SYSTEM	
ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITH ODOMETER	

STANDARD VEHICLE SPEED SENSOR	
ELECTRONIC 3000 RPM TACHOMETER	
VT-HU CONNECTIVITY PLATFORM HARDWARE	
2 YEARS DETROIT CONNECT BASE PACKAGE (VIRTUAL TECHNICIAN, DETROIT CONNECT PORTAL ACCESS) FOR VT-HU CONNECTIVITY PLATFORM	
IDLE SHUTDOWN OVERRIDE, DDEC 5/6 AMBIENT AIR TEMPERATURE SENSOR	
FOUR EXTRA SWITCHES IN DASH	
HARDWIRE SWITCH #1, ON/OFF LATCHING, 20 AMPS IGNITION WIRED TO BACK OF CAB	
HARDWIRE SWITCH #2, ON/OFF LATCHING, 20 AMPS IGNITION WIRED TO BACK OF CAB	
HARDWIRE SWITCH #3, ON/OFF LATCHING, 20 AMPS IGNITION WIRED TO BACK OF CAB	
HARDWIRE SWITCH #4, ON/OFF LATCHING, 20 AMPS IGNITION WIRED TO BACK OF CAB	
NO HARDWIRE SWITCH #5, ON/OFF LATCHING, WIRED TO CUSTOMER INTERFACE CONNECTOR	
NO HARDWIRE SWITCH #6, ON/OFF LATCHING, WIRED TO CUSTOMER INTERFACE CONNECTOR	
NO HARDWIRE SWITCH #7, ON/OFF LATCHING, WIRED TO CUSTOMER INTERFACE CONNECTOR	
NO HARDWIRE SWITCH #8, ON/OFF LATCHING, WIRED TO CUSTOMER INTERFACE CONNECTOR	
NO HARDWIRE SWITCH #9, ON/OFF LATCHING, WIRED TO CUSTOMER INTERFACE CONNECTOR	
NO HARDWIRE SWITCH #10, ON/OFF LATCHING, WIRED TO CUSTOMER INTERFACE CONNECTOR	
BW TRACTOR PROTECTION VALVE	
TRAILER HAND CONTROL BRAKE VALVE	
2 INCH TURBO AIR PRESSURE GAUGE	
DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY	
SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY	
MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH WITH HEADLIGHT/MRKR LT INTERRUPTER SWITCHES ON STEERING WHEEL & DASH SWITCH FOR CUSTOMER FURNISHED SNOWPLOW LTS	
TWO VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR	
SELF CANCELING TURN SIGNAL SWITCH, HEADLAMP HIGH/LOW AND FLASH, WASH/WIPE/INTERMITTENT	
PACIFIC INSIGHT ELECTRONIC FLASHER	
Design	
PAINT: ONE SOLID COLOR	
	ONE SOLID COLOR HSB905935

Color	
CAB COLOR A: HSB905935 WHITE PPG BASE / CLEAR COAT	
	CAB PAINT HSB905935 WHITE PPG.
CAB INTERIOR PAINTED SAME AS CAB COLOR	
BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT	
POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)	
BUMPER PAINTED SAME AS CHASSIS	
SUNVISOR PAINTED SAME AS CAB COLOR A	

D I M E N S I O N S



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model4700SF
 Wheelbase (545) 5050MM (199 INCH) WHEELBASE
 Rear Frame Overhang (552)2650MM (104 INCH) REAR FRAME OVERHANG
 Fifth Wheel (578)..... NO FIFTH WHEEL
 Mounting Location (577).....NO FIFTH WHEEL LOCATION
 Maximum Forward Position (in) 0
 Maximum Rearward Position (in) 0
 Amount of Slide Travel (in)..... 0
 Slide Increment (in) 0
 Desired Slide Position (in)..... 0.0
 Cab Size (829)..... 110 INCH BBC STEEL CONVENTIONAL CAB
 Sleeper (682).....NO SLEEPER BOX/SLEEPERCAB
 Exhaust System (016) RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL
 AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED
 VERTICAL TAILPIPE

Dimensions	Inches
Bumper to Back of Cab (BBC)	133.2
Bumper to Centerline of Front Axle (BA)	52.0
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	117.6
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	114.6
Back of Cab Protrusions (Exhaust/Intake) (CP)	2.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	221.9
Cab Height (CH)	73.0
Wheelbase (WB)	198.8
Frame Overhang (OH)	104.3
Overall Length (OAL)	355.1
Rear Axle Spacing	54.0
Unladen Frame Height at Centerline of Rear Axle	45.6

Equipment warranties, manuals, parts delivery, and service

The truck chassis is to be completely serviced and ready for use at the time of delivery. The truck is to be delivered to the County shop in Colfax, Washington.

Bidder shall provide parts and service outlets within an 80-mile radius of Colfax, Washington. Parts and service shall be available from bidder 24 hours a day.

Whitman County Fleet Shop in Colfax, WA shall be within Bidder's Area of Responsibility for routine parts delivery, etc.

Bidder must provide the warranty information for the following:

Warranty Period for engine: _____

Warranty Period for transmission: _____

Warranty Period for cab and chassis: _____

*If oil sampling is necessary for warranty purposes, the bidder will furnish all necessary equipment and supplies so Whitman County may take oil samples during warranty period and send them in for testing at no cost to Whitman County. **The performance of this warranty includes all travel time and mileage. All lube filters will be supplied through entire warranty period and delivered at recommended service intervals.**

EQUIPMENT OPTIONS

The County may opt to purchase any or all of the following options. Review the following options and specifications laid out below. As with the truck chassis, any and all deviations or alternatives from the provisions of these specifications will be considered, to permit manufacturers to follow their standard manufacturing processes. Such deviations or alternatives will be approved, however, only in the sole discretion of the County and only if, in their opinion, they do not adversely affect strength, efficiency, effectiveness or life of the equipment. Compliance with or deviation from the following specifications shall be noted and a manufacturer's build sheet shall be included with bidder's response.

*It is the intent of these options to allow Whitman County the ability to purchase a complete "turnkey" truck. If the bidder does not up-fit trucks in house, they will be responsible for working with an up-fitter/subcontractor to furnish these bid options, including delivery of chassis to up-fitter. Bidder's personnel to have a "pre-build" meeting at the municipality's shops where the final assembly of the completed truck will be confirmed with Municipal personnel to confirm location of mounted equipment and confirm complete understanding of the specifications. A pre-paint inspection is required of the completed vehicle at the bidder's location by the Municipality's personnel prior to the application of the finish paint.

Specifications for each option listed as follows:

OPTION #1 A Complete Dump Body Up-fit with Installation

*It is the intent of this specification to describe a dump body and load sensing central hydraulic system to operate a truck hoist, pup trailer hoist, one-way front mounted snowplow (*plow and plow hitch as well as labor and materials to install the plow not included*) and a sander (*sander, labor and materials to install sander not included*). The following describes the minimum expectation of Whitman County. Due to the critical nature of the layout of the body and the design of the rear hitch, prospective bidders are to examine an existing Whitman County dump truck and provide **with** their bid response a dimensioned concept drawing of the mounted body with weight distribution analysis. The bidder is to include with their response a detailed drawing of the proposed rear hitch complete with all necessary dimensions. Chassis Dimensions and weights can be found at the conclusion of the Option #1 specifications. Failure to provide the drawings and weight distribution will invalidate the bidder's response. Bidders can contact Brandon Kruger to arrange an appointment to inspect an existing Whitman County Dump truck. Any and all deviations to the specification are to be noted.

15' 0" Dump Body to Consist of the Following:

Section A: BODY

1. 1/4" Hardox AR450 (205,000 P.S.I. tensile, 175,000 P.S.I. yield strength) steel floor with 5" radius at sides with one-piece center sheet.
2. Side height (36") to provide eleven and 2/3 (11.67) cubic yard water level capacity / thirteen and six tenths (13.6) cubic yards with side boards. Inner wall to be 8 ga. 100XF "Domex" (110,000 P.S.I. tensile strength, 100,000 P.S.I. yield strength) steel.
3. Outer wall to be 10 ga. A1011 grade 50 (65,000 P.S.I. tensile, 50,000 P.S.I. yield strength) steel, with two intermediate horizontal side braces, to provide double wall construction. Side shall be equipped with 2" wide board pockets and equipped with 2"x 8"x3/16" tubular steel side boards with a 1-1/4" x 1-1/4" x 3/16" steel angle top cap. Sides shall have boxed front corner pillars.
4. A grip strut walkway on each side attached to the rub rail shall be installed plus access steps with grab handles each corner of body mounted to running boards and horizontal side braces. Grab handles to be installed at access ladders both sides front and rear of body.
5. Cab protector shall be 10 ga. steel, 23" extension forward of the front bulkhead of the dump body. Must be designed as to not interfere with exhaust system, taking into consideration normal operation on steep grades.
6. 44" high tailgate shall be SLOPING forward at 16° from vertical to be constructed of 3/16" AR450 Hardox (205,000 P.S.I. tensile, 175,000 P.S.I. yield strength) steel. Shall have full perimeter boxed bracing plus two intermediate horizontal braces and two intermediate vertical braces to form a 9-Panel design and be equipped with over center electric/air tailgate trip mechanism. Rear lower portion of body below the tailgate to be tapered forward to facilitate dumping into chip spreader. To include spreader tailgate chains per Whitman County specifications.
7. Tailgate to be equipped with extended 12" offset top hinges constructed of not less than 1.5" flame cut steel to facilitate dumping of large diameter materials. Tailgate trip latches to be constructed of not less than 1" flame cut steel.
8. Cross member type understructure to be interlocking style with 12" high-formed 8 ga. 100XF "Domex" (110,000 P.S.I. tensile strength, 100,000 P.S.I. yield strength) steel rectangular longitudinal members interlaced with one-piece full width 4" structural steel channel cross members on 12" centers. Interior surfaces of longitudinal members to be coated with rust inhibitors and equipped with vulcanized rubber cushion strips to protect top of truck frame rails.
9. Body to be equipped with an extreme duty (minimum 3/4" thick base angle) greaseable rear hinge set up to allow for quick removal of body.
10. Must include installed body prop.
11. Must include installed mud flaps fore and aft of rear tandems. Rear Flaps to be hinged and removable with an additional mounting bracket at both sides of rear of body

Section B: LIGHTS

1. All lights and wiring shall be installed to FMVSS specifications and standards.
2. All lights shall meet all applicable local, state, and federal laws and or/standards at the time of installation.
3. All lights, wiring and connections shall be weather tight utilizing weather tight connectors.
4. Shall have one body mounted Truck-Lite series 50 weatherproof, surface mounted junction box.
5. All lighting where possible shall be LED.
6. Shall have 6-1/2" oval stop, turn/tail and back-up lamps and a 6-1/2" **Class 1** amber strobe light in each rear corner post.
7. Provide and install front amber marker light located in the front corner posts.
8. Provide and install a 6" amber strobe light mounted to the leading edge of the cab protector. Strobe light to be protected from damage with a limb guard. Make and model of strobe required: Code 3 LSS222CA.
9. Front mounted strobe and rear corner strobe lights to be controlled by a single console mounted switch.
10. OEM supplied stop/turn/taillights shall be incorporated into rear hitch.

Section C: HITCH

1. Model 370A Premier air pintle hook mounted to a formed buck plate style hitch designed for pup trailer application.

2. Pintle hook shall be 45-ton capacity.
3. Shall have adequate bracing to ensure rated capacity can be safely towed.
4. Chassis manufacturer supplied electrical connection with standard 7-pole heavy-duty connector plus safety chain rings shall be installed. Location to meet Whitman County specifications.
5. 5/8" formed steel buck plate shall have pintle hook mounting holes to provide hitch height per Whitman County specifications.
6. Fabricate and install a chip spreader hitch integral to the buck plate to meet Whitman County specifications.
7. *Bidder to inspect existing Whitman County Truck to confirm dimensional requirements. Bidder to provide drawing of proposed hitch with bid response. Failure to provide drawing will invalidate bidder's response.*
8. 1" hydraulic quick coupler to be provided in location per Whitman County specifications
9. Chassis mfg. supplied glad hands to be installed in location to meet Whitman County specifications

Section D: HYDRAULIC SYSTEM

1. Pump to be 6.1 CID (42 gal/min @ 1,600 RPM) load sensing type with minimum 2" suction port.
2. Pump hose connections to be O-ring type flanges with 90 degree bent stems. Pump ports to be equipped with split flange type fittings.
3. The pump will be driven live from a front engine PTO adaptor to the integral front frame extensions provided by the chassis mfg.
4. A "low oil" shut down valve will be plumbed into the pressure line. Shut down valve activated by the "low oil" sensor located in the reservoir.
5. Hydraulic reservoir/valve enclosure to be 40-gallon nominal capacity.
6. Reservoir/valve enclosure to be constructed of stainless steel and internally baffled. Valve enclosure to be integrated into the reservoir. Enclosure to be sealed with a rubber gasket.
7. Cover will protect valves from both road and pressure washer spray.
8. Filler breather cap
9. 100 mesh suction strainer that is removable and reservoir magnet.
10. Fluid level sight gauge with guard
11. In tank return filter minimum 10-micron absolute with condition indicator sensor wired to indicator light on console
12. 2-1/2" full flow ball valve for tank suction line
13. Low-level/high temp indicator with an in-cab indicator light on control console.
14. The hydraulic valve shall be of a stacked section design.
15. Main relief to be located in the valve end cap and be set for system requirements.
16. Valve sections to be arranged as follows:
 - a. Truck Hoist, Load Sensing 3-way w/air actuator, hoist limit
 - b. Pup trailer hoist, Load Sensing 3-way w/air actuator
 - c. Plow Raise, Load Sensing 4-Way with the Power Down port plugged. PLUMBED TO "Summer/Winter" switch to change function.
 - d. Provide a "Manifold 2-Function" electric/hydraulic valve to operate sander functions
18. An 85-P.S.I. air protection valve shall be installed to supply air to valve controls, etc.
19. The cab mounted control console shall control all hydraulic functions. Included in the console will be locking switches for the electric/air controlled tailgate switches on both the truck and the pup trailer.
20. Control Console to include the following:
 - a. Proportional truck hoist control with center interlock
 - b. Proportional pup hoist control with center interlock plumbed to a "Summer/Winter" switch that will change function of control to either the pup trailer or the plow raise function as required.
 - c. Certified Freedom 2.0 Electric/Hydraulic Sander Controller or pre-approved equal.
 - d. Indicator lights for body raised, low oil, high temperature oil, and return line filter condition.
 - e. Momentary override switch to be provided to allow system to function long enough to raise plow or lower body in the event of a hydraulic leak.
21. Hose and fittings for truck and pup trailer hoists shall be at least 1 inch.
22. A 1/2" high pressure hydraulic line will be plumbed to the front of the truck. Plow raise line to be plugged and tied off in an easy to find location for future installation of snowplow by County

personnel. Hydraulic lines for the sander conveyor, spinner and return lines to be run to the rear of truck terminating in plugged bulkhead fittings in location to be determined at time of installation.

23. Pump suction line shall be 2-1/2 in.

24. Pump pressure lines to the truck main hydraulic valve shall be 1 in.

25. All hydraulic fittings shall be JIC or O-ring where possible. Sweep type fittings are to be used in lieu of elbows if at all possible.

Section E: HOIST

1. Trunnion mounted hoist cylinder.
2. Rated approximately 42 tons capacity with dump angle limit switch set at 50-degree dump angle.
3. Hoist cylinder shall be installed with as little intrusion as possible into the body (12" deep x 17" wide doghouse).
4. Hoist cylinder to be isolated from truck frame and dump body bending stresses with a "floating" collar allowing the cylinder to pivot in all directions.
5. Hoist to be covered by a two (2) year warranty.

Section F: TARPING SYSTEM

1. Provide & Install a Heavy-Duty Asphalt Grade 108-021538821 9.5" Universal Super Shield Pulltarp Assembly
2. Tarp material to be compatible with Hot Asphalt.
3. Tarp to be equipped with 18" side flaps
4. Tarp to be equipped with side flap tie down kit
5. Pull rope storage hooks to be provided driver's side front of body and at rear of body. Location of hooks to be confirmed prior to start of installation.
6. Location of the tarp enclosure to be indicated on the required concept drawing.

Section G: INSTALLATION & PAINT

1. Frame shall be painted black with high quality automotive paint wherever modified or attachments installed.
2. Dump body to be prepared in accordance with paint/primer manufacturer's recommendations. In addition, all welding slag, scale, grease and other foreign substances shall be removed prior to painting. Dump body shall be painted with baked on automotive acrylic enamel one (1) color (Safety Yellow HSB925122).
3. All wiring shall use heat shrink wire connectors or weather-pak type connections. 3-M quick clips will not be accepted.
4. All wiring, hydraulic hoses, etc. shall be supported at least every 24" and shall utilize non-metallic supports. Utilizing plastic wire ties and tying off to existing lines etc. is not acceptable.
5. Vehicle license plate to be bolted to rear surface of hitch to include an illumination light per FMVSS 108 in a location to be confirmed at pre-build meeting.

OPTION #1 Dump Body and Hydraulic System as Described Above Net Cost Installed:

\$ _____ **(Washington State Sales Tax Not Included)**

Make and Model of Body: _____

Make of Hydraulic System: _____

OPTION #1A:

Rotary Style Patch Gate in Rear Tailgate of Body Net Cost Installed:

\$ _____ **per each (Washington State Sales Tax Not Included)**

Availability: Bidder is to state lead time required to produce above specified body and hydraulic system after receipt of written notification of award _____ weeks

Chassis Information: Wheelbase = 199", BBC = 110", Bumper to Centerline of Steer Axle = 29", Cab to Trunnion = 118". Front Axle Curb Weight = 11,304#, Rear Axle Curb Weight = 9,041#, Total Chassis Curb Weight = 20,345#

OPTION #2 A Complete Dump Body Up-fit with Installation

It is the intent of this specification to describe a dump body and load sensing central hydraulic system to operate a truck hoist, pup trailer hoist, power reversible front mounted snowplow (*plow and plow hitch as well as labor and materials to install the plow not included*) and a sander (*sander, labor and materials to install sander not included*). Prospective bidders are to provide **with** their bid response a dimensioned concept drawing of the mounted body with weight distribution analysis. *Chassis Dimensions and weights can be found at the conclusion of the Option #2 specifications.* Failure to provide the drawings and weight distribution will invalidate the bidder's response

15' 0" Dump Body to Consist of the Following:

Section A: BODY

1. 1/4" Hardox AR450 (205,000 P.S.I. tensile, 175,000 P.S.I. yield strength) one (1) piece steel floor with 57-degree floor to sides transition.
2. Side height (36") to provide eleven and 8/10ths (11.8) cubic yard water level capacity / thirteen and eight tenths (13.8) cubic yards with side boards.
3. Outer wall to be 3/16 44W (65,000 P.S.I. tensile, 44,000 P.S.I. yield strength) steel, with an integral intermediate horizontal break to form a brace. Sides to be lined with an Inner wall to be 8 ga. 100W "Domex (105,000 PSI Yield / 145,000 PSI Tensile strength) Steel to provide a double wall construction. Side shall be equipped with boxed front corner pillars.
4. A grip strut walkway on each side attached to the rub rail shall be installed plus an access ladder with grab handle on driver's side front corner of body mounted to running boards and horizontal side braces.
5. Cab protector shall be 10 ga. steel, 24" extension forward of the front bulkhead of the dump body. Must be so designed as to not interfere with exhaust system, taking into consideration normal operation on steep grades.
6. 42" high tailgate shall be SLOPING forward at 16° from vertical to be constructed of 3/16 44W (65,000 P.S.I. tensile, 44,000 P.S.I. yield strength) steel outer wall with an integral intermediate horizontal break to form a horizontal brace plus full boxed perimeter bracing. Tailgate to be double wall with 3/16" AR450 Hardox (205,000 P.S.I. tensile, 175,000 P.S.I. yield strength) steel inner wall. Tailgate to be equipped with over center electric/air tailgate trip mechanism. Rear lower portion of body below the tailgate to be tapered forward to facilitate dumping into chip spreader or paving machine. Tailgate to include spreader tailgate chains.
7. Tailgate to be equipped with extended 9" offset top hinge arms constructed of not less than 1" flame cut steel to facilitate dumping of large diameter materials. Tailgate trip latches to be constructed of not less than 3/4" flame cut steel.
8. Crossmemberless type understructure one-piece 8" high-formed 3/16" 100W "Domex" (105,000 P.S.I. tensile strength, 145,000 P.S.I. yield strength) steel. Full trapezoidal long sills to be 14" Wide at the top including 1-1/2" flanges each side. Trapezoidal longitudinal members to be equipped with vulcanized rubber cushion strips to protect top of truck frame rails.
9. Body to be equipped with a rear hinge assembly consisting of a 5" x 5" x 3/8" Base angle with 1-1/2" flame cut heavy duty pin supports and a tempered steel 2-1/4" x 8-1/8" greaseable rear hinge pins supporting 3" x 5-5/8" tempered steel hinge pads set up to allow for quick removal of body.
10. Must include installed body prop.
11. Must include installed mud flaps fore and aft of rear tandems. Rear Flaps to be hinged and removable with an additional mounting bracket at both sides of rear of body

Section B: LIGHTS

1. All lights and wiring shall be installed to FMVSS specifications and standards.
2. All lights shall meet all applicable local, state, and federal laws and or/standards at the time of installation.
3. All lights, wiring and connections shall be weather tight utilizing weather tight connectors.
4. Shall have one body mounted Truck-Lite series 50 weatherproof, surface mounted junction box.
5. All lighting where possible shall be LED.

6. Shall have 6-1/2" oval stop, turn/tail and back-up lamps and a 6-1/2" **Class 1** amber strobe light in each rear corner post.
7. Provide and install a 6" amber strobe light mounted to the leading edge of the cab protector. Strobe light to be protected from damage with a limb guard. Make and model of strobe provided customer at pre-build meeting.
8. Front mounted strobe and rear corner strobe lights to be controlled by a single console mounted switch.
9. OEM supplied stop/turn/taillights shall be incorporated into rear hitch.

Section C: HITCH

1. Model 370A Premier air pintle hook mounted to a formed buck plate style hitch designed for pup trailer application.
2. Pintle hook shall be 45-ton capacity.
3. Shall have adequate bracing to ensure rated capacity can be safely towed.
4. Chassis manufacturer supplied electrical connection with standard 7-pole heavy-duty connector plus safety chain rings shall be installed. Location to meet Customer's specifications.
5. Buck plate shall have pintle hook mounting holes to provide hitch height per Customer's specifications.
6. Fabricate and install a chip spreader hitch to meet Customer's specifications.
7. 1" hydraulic quick coupler to be provided in location per Customer's specifications
8. Chassis mfg. supplied glad hands to be installed in location to meet Customer's specifications

Section D: HYDRAULIC SYSTEM

1. Pump to be 6.1 CID (42 gal/min @ 1,600 RPM) load sensing type with minimum 2" suction port.
2. Pump hose connections to be O-ring type flanges with 90 degree bent stems. Pump ports to be equipped with split flange type fittings.
3. The pump will be driven live from a front engine PTO adaptor to the integral front frame extensions provided by the chassis mfg.
4. A "low oil" shut down valve will be plumbed into the pressure line. Shut down valve activated by the "low oil" sensor located in the reservoir.
5. Hydraulic reservoir/valve enclosure to be 40-gallon nominal capacity.
6. Reservoir/valve enclosure to be constructed of stainless steel and internally baffled. Valve enclosure to be integrated into the reservoir. Enclosure to be sealed with a rubber gasket.
7. Cover will protect valves from both road and pressure washer spray.
8. Filler breather cap
9. 100 mesh suction strainer that is removable and reservoir magnet.
10. Fluid level sight gauge with guard
11. In tank return filter minimum 10-micron absolute with condition indicator sensor wired to indicator light on console
12. 2-1/2" full flow ball valve for tank suction line
13. Low-level/high temp indicator with an in-cab indicator light on control console.
14. The hydraulic valve shall be of a stacked section design.
15. Main relief to be located in the valve end cap and be set for system requirements.
16. Valve sections to be arranged as follows:
 - a. Truck Hoist, Load Sensing 3-way w/air actuator, hoist limit
 - b. Pup trailer hoist, Load Sensing 3-way w/air actuator
 - c. Plow Power Raise/Power Lower Load Sensing 4-way w/air actuator with Power Float
 - d. Plow Power Angle Left/Power Angle Right Load Sensing 4-way w/air actuator
 - e. Provide a "Manifold 2-Function" electric/hydraulic Load Sensing valve to operate sander functions
18. An 85-P.S.I. air protection valve shall be installed to supply air to valve controls, etc.
19. The cab mounted control console shall control all hydraulic functions. Included in the console will be locking switches for the electric/air controlled tailgate switches on both the truck and the pup trailer
20. Control Console to include the following:
 - a. Proportional truck hoist control with center interlock
 - b. Proportional pup hoist control with center interlock

- c. Certified Freedom 2.0 Electric/Hydraulic Sander Controller or pre-approved equal.
 - d. Indicator lights for body raised, low oil, high temperature oil, and return line filter condition.
 - e. Momentary override switch to be provided to allow system to function long enough to raise plow or lower body in the event of a hydraulic leak.
21. Hose and fittings for truck and pup trailer hoists shall be at least 1 inch.
 22. 1/2" high pressure hydraulic lines will be plumbed to the front of the truck. Plow raise and power angle lines line to be plugged and tied off in an easy to find location for future installation of snowplow. Hydraulic lines for the pup trailer, sander conveyor, spinner and sander return lines to be run to the rear of truck terminating in plugged bulkhead fittings in location to be determined at time of installation.
 - 23. Pump suction line shall be 2-1/2 in.**
 24. Pump pressure lines to the truck main hydraulic valve shall be 1 in.
 25. All hydraulic fittings shall be JIC or O-ring where possible. Sweep type fittings are to be used in lieu of elbows if at all possible.

Section E: HOIST

1. Trunnion mounted hoist cylinder.
2. Rated approximately 42 tons capacity with dump angle limit switch set at 50-degree dump angle.
3. Hoist cylinder shall be installed with as little intrusion as possible into the body (12" deep x 17" wide doghouse)
4. Hoist cylinder to be isolated from truck frame and dump body bending stresses with a "floating" collar allowing the cylinder to pivot in all directions
5. Hoist to be covered by a two (2) year warranty.

Section F: TARPING SYSTEM

1. Provide & Install a Heavy-Duty Asphalt Grade 108-021538821 9.5" Universal Super Shield Pulltarp Assembly
3. Tarp material to be compatible with Hot Asphalt.
4. Tarp to be equipped with 18" side flaps
5. Tarp to be equipped with side flap tie down kit
6. Pull rope storage hooks to be provided driver's side front of body and at rear of body. Location of hooks to be confirmed prior to start of installation.
7. Location of the tarp enclosure to be indicated on the required concept drawing.

Section G: INSTALLATION & PAINT

1. Frame shall be painted black with high quality automotive paint wherever modified or attachments installed.
2. Dump body to be prepared in accordance with paint/primer manufacturer's recommendations. In addition, all welding slag, scale, grease and other foreign substances shall be removed prior to painting. Dump body shall be painted with baked on automotive acrylic enamel one (1) color (Safety Yellow HSB925122).
3. All wiring shall use heat shrink wire connectors or weather-pak type connections. 3-M quick clips will not be accepted.
4. All wiring, hydraulic hoses, etc. shall be supported at least every 24" and shall utilize non-metallic supports. Utilizing plastic wire ties and tying off to existing lines etc. is not acceptable.
5. Vehicle license plate to be bolted to rear surface of hitch to include an illumination light per FMVSS 108 in a location to be confirmed at pre-build meeting.

OPTION #2

Dump Body and Hydraulic System as Described Above Net Cost Installed:
\$ _____ (Washington State Sales Tax Not Included)

Make and Model of Body: _____

Make of Hydraulic System: _____

OPTION #2A

Rotary Style Patch Gate in Rear Tailgate of Body Cost Installed
\$ _____ per each (Washington State Sales Tax Not Included)

OPTION #2B

Delete the Pup Trailer Control, Valve & Hydraulic Line to Rear of Truck
\$<_____> (Deduct)

OPTION #2C

Provide a Plate 30 Ton Rated Flat Buck Plate Hitch with Non-Air Pintle Hook In Lieu of Pup Trailer Hitch
\$<_____> (Deduct)

OPTION #2D

Provide and Install Electronic Brake Controller (up to 3 Axles) & Wire to Trailer Plug
\$ _____ (Washington State Sales Tax Not Included)

Availability: Bidder is to state lead time required to provide and install above specified body and hydraulic system after receipt of written notification of award _____ weeks

Chassis Information: Wheelbase = 204", BBC = 114", Bumper to Centerline of Steer Axle = 30", Cab to Trunnion = 120". Front Axle Curb Weight = 11,008#, Rear Axle Curb Weight = 8,751#, Total Chassis Curb Weight = 19,759#

OPTION #3 14' Hopper Style Spreader

It is the intent of this specification to describe a 304 Stainless Steel 14' hopper spreader that is capable of mounting in either Option #1 or Option #2 including the mounting system and all hydraulic connections to integrate into the above describe hydraulic systems **with** their bid response a dimensioned concept drawing of the spreader mounted in the above optioned dump body with weight distribution analysis. Failure to provide the drawings and weight distribution will invalidate the bidder's response

12.0 Cubic Yard Capacity Water Level 14.0' Stainless Steel Slip In Hopper Spreader to Consist of

- | | |
|--------------------------------|--|
| 1. Capacity | 12.00 yd ³ |
| 2. Chute Primary Material | 304 Stainless Steel |
| 3. Chute | Adjustable Height |
| 4. Drive Type | Hydraulic |
| 5. Feed Mechanism | Conveyor Chain |
| 6. Feed Mechanism ² | 24 in. Pintle Chain with 3/8 in. Bars |
| 7. Gearbox Ratio | 25:1 or 50:1 per customer preference |
| 8. Hopper Length | 168.00" |
| 9. Hopper Material | 304 Stainless Steel |
| 10. Hopper Width | 82.00" |
| 11. Number of Motors | 2 |
| 12. Overall Height | 57.00" |
| 13. Overall Length | 191.00" |
| 14. Overall Width (at top) | 82.00" |
| 15. Spinner Diameter | 18.00" |
| 16. Spinner Material | Polyurethane |
| 17. Spreading Width Range | 2 To 40' |
| 18. Top Screen | Yes |
| 19. Vehicle Application | Dump Body & Chassis Frame Mount |
| 20. Rear Light Bar | Provide a Stainless Steel Housed Light Bar that includes 4" round L.E.D. Stop/Tail Lights Plus Class 1 Amber Strobe lights |
| 21. Works with Bulk Sand | Yes |
| 22. Works with Salt / Sand Mix | Yes |
| 23. Unit Weight | 3,503 lb |

OPTION #3

Hopper Spreader Installed in Option#1 or Option #2 as Described Above Net Cost:
\$ _____ (Washington State Sales Tax Not Included)

Make and Model of Hopper Spreader: _____

OPTION #3A

Chassis Mount above Sander including Stainless Steel Walkways (Rear Discharge)
\$ _____ (Washington State Sales Tax Not Included)

OPTION #3B

Chassis Mount above Sander including Stainless Steel Walkways (Front Discharge)
\$ _____ (Washington State Sales Tax Not Included)

OPTION #3C

Provide an 8" Side Height 304 Stainless Steel **Tailgate Spreader** In Lieu of Slip in style
Installed to either Option #1 or Option #2
\$ < _____ > (Deduct)

Option #3C Specifications

- | | |
|----------------------------|------------------------------------|
| 1. Chute Primary Material | 304 Stainless Steel |
| 2. Chute | Adjustable Height |
| 3. Discharge Position | Driver's Side |
| 4. Drive Type | Hydraulic |
| 5. Feed Mechanism | Horizontal Auger |
| 6. Feed Mechanism Size | 6 in. Auger with 3/8 in. Flighting |
| 7. Hopper Length | 18.00" |
| 8. Hopper Material | 304 Stainless Steel |
| 9. Hopper Width | 96.00" |
| 10. Included Cover | Yes |
| 11. Number of Motors | 2 |
| 12. Overall Height | 31.25" |
| 13. Overall Length | 18.00" |
| 14. Overall Width (at top) | 96.00" |
| 15. Side Plate Height | 8.00" |
| 16. Spinner Diameter | 18.00" |
| 17. Spinner Material | Polyurethane |
| 18. Spreading Width Range | 4 To 40' |
| 19. Vehicle Application: | Multiple Dump Body Configurations |
| 20. Works with: | Bulk Sand |
| 21. Shipping Weight | 460 lbs. |

Make and Model of Tailgate Spreader: _____

Availability: Bidder is to state lead time required to provide and install either the hopper spreader or the tailgate spreader after receipt of written notification of award: _____ weeks

OPTION #4 Reversible Snow Plow

It is the intent of this specification to describe a Municipal Grade 11' Power Reversible Snow Plow capable of integrating in the hydraulic systems described in Option #1 or Option #2 including the mounting system specified below with all the required "connect under pressure" quick couples to make the plow fully functional.

Model MW41R11 Viking Power Reversible 11' Snowplow to consist of:

Section A: MOLDBOARD

1. Full trip, rolled formed, standard moldboard with rubber deflector
2. Plow to power reverse by use of hydraulic cylinders 35 degree left and right
3. Shall be 11 ft. long and 41" high
4. Shall not be less than 3/16 A606 steel

Section B: CUTTING EDGE

1. Manufacturers standard 5/8" x 8" cutting edge,
2. Bottom angle to be 4" x 4" x 3/4"

Section C: DRIVE FRAME

1. Push frame tube to be 88" in width constructed of 4"x 4" x 3/8" square tube
2. Semi-circle constructed of 1/2" angle.

Section D: REVERSABLE A-FRAME

1. A-frame sides to be constructed of heavy wall channel welded to end plate. End plate to side channels is to be reinforced with gussets.
2. Plow to be equipped with two (2) reversing stops
3. Moldboard attack angle brace connection plate to be continuously welded to the push frame assembly and constructed of 1/2" plate with a 3"x 10"x 1/2" plate
4. Twin (2) 3" x 10" hydraulic reversing cylinders are double acting for heavy duty use and be equipped with cushion valve to protect reversing cylinders

Section E: TRIP MECHANISM

1. Moldboard to be full trip design with two (2), three (3) position external compression trip springs.

Section D: LIFTING DEVICE

1. Level Lift design allows continuous level lift in any position to include a Single-Acting 3" x 2" x 10" lift cylinder

Section F: PIN TYPE PLOW HITCH

1. Plow portion of **Pin Hitch** to be constructed of heavy duty structural members and designed to securely engage to the truck portion of the **Pin Hitch**.
2. Hitch incorporates additional centering mechanisms to simplify plow to truck alignment. Two (2) jack cylinders to be provided to securely holds the plow in the correct position to couple to the truck portion of the plow hitch
3. The truck portion of the hitch shall consist of a 1/2" flat plate fabricated with two pockets/flat plate reinforcements. Reinforcements shall be constructed of two heavy duty cheek plates bolted to Truck Frame.
4. When plow is disconnected from truck all components (i.e.: lift cylinder, lift arm & oscillating mechanism) will remain with plow portion of hitch. Only the 1/2" flat plate remains on truck.
5. The plow portion of the hitch shall swivel horizontally, by means of a "power float" valve incorporated into the hydraulic system of the truck, allowing the plow to follow the variations in the road surface. All plow and hitch hydraulic hoses must be connected with "Connect Under Pressure" quick couplers

Section G: LIGHTING

1. #80880 Trucklite Plow lights to be installed on hood of truck cab with stainless steel mounting brackets

Section H: PAINT

1. All materials blasted to remove all mill scale, rust and contaminates
2. Push frame parts to be powder coat painted gloss black. Plow painted "Highway Orange"

OPTION #4

Municipal Plow Installed in Option#1 or Option #2 as Described Above Net Cost:

\$ _____ (Washington State Sales Tax Not Included)

Make and Model of Municipal Grade Plow: _____

Availability: Bidder is to state lead time required to provide and install the Municipal Grade Snowplow after receipt of written notification of award: _____ weeks

OPTION #4A

In Lieu of the 11' Municipal Plow Provide and Install a High Speed 12' x 42" Snowplow

\$ _____ (Washington State Sales Tax Not Included)

Option #4A Specifications

1. To be Viking Model PRR1142FE Power Reversible Snowplow or pre-approved equal
2. Eight (8) gauge A606 Core-Ten Steel brake formed moldboard
3. Two rugged compression spring arms
4. Heavy Duty twin cylinder power reversing assembly with 3-1/2" diameter x 15" stroke reversing cylinders
5. Heavy duty steel tube & plate push frames
6. Reinforced with a minimum of eight plasma cut ribs
7. Top of moldboard braced with integral formed channel
8. Bottom has gusseted 6" x 4" x 3/4" blade angle
9. The PRR1142FE Plow is to utilize the same truck and plow hitch system as described in Option# 4

OPTION #4B

Provide a 12' x 42" High Speed Power Reversible Plow in Lieu of Municipal Grade Plow

To be Viking Model PRR1242FE or pre-approved equal, spec'd the same as Option #4A

\$ _____ (Washington State Sales Tax Not Included)

Make and Model of High Speed Plow: _____

Availability: Bidder is to state lead time required to provide and install the High Speed Snowplow after receipt of written notification of award: _____ weeks

OPTION #5 5th Wheel Plate and Hydraulic Up-fit with Installation

In Lieu of Dump Bodies as described in Option#1 or Option #2 provide and install a Model FW35 Series Holland 5th Wheel (Note: Truck is still to be equipped with Hydraulics and Controls as Described in Option #1 or Option #2)

\$ < _____ > (Deduct)

Option #6 Automatic Transmission in Lieu of EATON FULLER RTLO-16918B TRANSMISSION

Description (respect and understanding given to how a different transmission impacts multiple specifications): _____

Net Price Change: \$ _____

Option 7 Alternate Engine in Lieu of DETROIT DD13 12.8L

Description (respect and understanding given to how a different engine impacts multiple specifications): _____

Net Price Change: \$ _____

Option 8: Alternate Rear Suspension in Lieu of CHALMERS 854 (800 SERIES)

Description (respect given to how a different suspension impacts multiple specifications): _____

Net Price Change:\$ _____

Bid Closed: For Review Only

BID PROPOSAL

The undersigned hereby certifies that he has read the attached specifications including warranty requirements for the bid on one (1) new, current model year, 66,000 lb. Truck Chassis and desires to submit for our consideration said equipment that conforms to the above specifications.

Signature

Name

Title

BASE BID: One (1) New/Current Model Year,
66,000 lb. Truck Chassis. \$ _____

BASIS OF AWARD \$ _____

Washington State Sales Tax \$ _____

TOTAL \$ _____

SALE OF ADDITIONAL NEW EQUIPMENT

Bidder agrees to sell additional bid items to Whitman County at the bid price for a period of twelve (12) months from the bid award date. All terms and conditions to apply.

____ Yes, but subject to seller's review and approval at the time of sale.

____ No.

TERMS AND CONDITIONS

1. Renewal: The Contract will **renew for two (2) additional one-year contract periods, subject to mutual agreement, with the total contract period not to exceed three (3) years.** Termination of contract renewal periods must be made in writing by purchaser or seller, 30 days prior to the renewal period commencing.
2. Contract Period: This contract shall be for a period commencing on the dates of order entry and terminating one year from date of order.
3. Order Date: This order date shall be the date upon which the Public Works Director or his designee signs the form ordering the equipment.
4. Price Increase: At renewal opportunity, the vendor shall inform the purchaser regarding any anticipated price increases or decreases expected to affect the machines identified under this contract bid. This information shall be provided with sufficient lead time to make an informed decision to renew or not.
5. Interpretation: Should discrepancies or omissions be found in the specifications, or any doubt as to its meaning, the bidder shall notify the Public Works Director in writing. The Public Works Director will send written instructions or addenda as required to all interested parties and they shall be incorporated into bid documents

POLITICAL SUBDIVISIONS

Bidder agrees to sell bid items to other Political Subdivisions and Municipal corporations, at the bid price, throughout the contract period and all renewal periods that follow. (Revised Code of Washington, Chapter 39.34, Interlocal Cooperation Act). All terms and conditions apply.

_____ Yes, but subject to seller's review and approval at the time of requested sale.

_____ No.

IN WITNESS WHEREOF the undersigned has caused this instrument to be executed (and its seal affixed, if corporation) by its duly authorized officers this _____ day of _____, 2020.

Bidder acknowledges that all addendums from website have been accessed:

Initial

PLEASE REVIEW TO MAKE SURE YOU HAVE INITIALED ALL PAGES.

BIDDER TO FILL IN

Manufacturer: _____

Model Number: _____ Year: _____ Delivery Date: _____

Dealer: _____ Signed: _____

Address: _____ Title: _____

ACCEPTED this _____ day of _____ 2020.

BOARD OF COUNTY COMMISSIONERS
WHITMAN COUNTY, WASHINGTON

Chair

Commissioner

Commissioner

Maribeth Becker, CMC
Clerk of the Board