Prepared by: Logan Grimm EXCEL TRUCK GROUP 267 LEE HIGHWAY SOUTH ROANOKE, VA 24019 Phone: 540-453-1004

A proposal for

Prepared by **EXCEL TRUCK GROUP**Logan Grimm

Jul 14, 2021

Western Star 49X

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

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SPECIFICATION PROPOSAL

	Description	Weight Front	Weight Rear	
Price Level				
	WST 49X STAR PRL-26X (EFF:7/26/21)			
Data Version				
	SPECPRO21 DATA RELEASE VER 006			
Vehicle Configura	tion			
	WESTERN STAR 49X	9,175	6,500	
	2023 MODEL YEAR SPECIFIED			
	SET BACK AXLE - TRUCK			
	STRAIGHT TRUCK PROVISION, NON-TOWING			
	LH PRIMARY STEERING LOCATION			
General Service				
	TRUCK CONFIGURATION			
	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)			
	CONSTRUCTION SERVICE			
	CONSTRUCTION BUSINESS SEGMENT			
	HEAVY EQUIPMENT COMMODITY			
	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS			
	MAXIMUM 8% EXPECTED GRADE			
	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE			
	WESTERN STAR VOCATIONAL WARRANTY			
	EXPECTED FRONT AXLE(S) LOAD: 12000.0 lbs			
	EXPECTED REAR DRIVE AXLE(S) LOAD: 21000.0 lbs			
	EXPECTED GROSS VEHICLE WEIGHT CAPACITY			

Truck Service

FLATBED/PLATFORM/STAKE BODY GODWIN MANUFACTURING COMPANY

: 33000.0 lbs

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	Description	Weight Front	Weight Rear	
Engine				
	CUM X12 350 HP @ 1800 RPM, 1350 LB-FT @ 1000 RPM, 1800 GOV RPM	-670	-55	
Flootronia Dovemete				

Electronic Parameters

65 MPH ROAD SPEED LIMIT

NO IDLE SHUTDOWN CONFIGURATION

Engine Equipment

2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG21 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

SIDE OF HOOD AIR INTAKE WITH ENGINE MOUNTED AIR CLEANER

LN 12V 170 AMP AVI 160 PAD MOUNT ALTERNATOR

(3) DTNA GENUINE, HIGH TEMP AGM STARTING AND CYCLING, MIN 2775CCA, 570RC, THREADED STUD BATTERIES

PASSENGER SEAT BATTERY BOX VENTED TO OUTSIDE OF CAB

BATTERY BOX MOUNTED UNDER PASSENGER SEAT

WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN

PLASTIC BATTERY BOX COVER

CUMMINS NATURALLY ASPIRATED 25.9 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE

ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM

CUMMINS INTEBRAKE BRAKE WITH HIGH MED LOW BRAKE

RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE

ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD ACTIVE REGENERATION AND VIRTUAL REGENERATION REQUEST SWITCH IN CLUSTER AND DASH MOUNTED INHIBIT SWITCH

	Description	Weight Front	Weight Rear	
	11 FOOT 06 INCH (138 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT			
	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP			
	13 GALLON DIESEL EXHAUST FLUID TANK	9	3	
	UNPOLISHED ALUMINUM WST DIESEL EXHAUST FLUID TANK COVER			
	LH HEAVY DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION			
	STANDARD DIESEL EXHAUST FLUID TANK CAP			
	STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD			
	AIR POWERED ON/OFF ENGINE FAN CLUTCH			
	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED			
	ALLIANCE FUEL FILTER/WATER SEPARATOR WITH INDICATOR LIGHT	15		
	CUMMINS SPIN ON FUEL FILTER			
	FULL FLOW OIL FILTER			
	1400 SQUARE INCH VOCATIONAL RADIATOR			
	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT			
	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT			
	RADIATOR DRAIN VALVE			
	LOWER RADIATOR GUARD			
	DELCO 12V 39MT HD/OCP STARTER WITH THERMAL PROTECTION AND INTEGRATED MAGNETIC SWITCH			
Transmission				
	EATON FULLER FR-14210B TRANSMISSION	-30	-10	

Transmission Equipment

NO TCU - AMT SHIFT CALIBRATION

EATON ADVANTAGE 15-1/2 INCH SELF

ADJUSTING CLUTCH

TORQUE LIMITING CLUTCH BRAKE

ZERK FITTING WITH EXTENSION HOSE AT

CLUTCH RELEASE BEARING

HYDRAULIC CLUTCH CONTROL

ALUMINUM CLUTCH HOUSING

NO PTO MOUNTING LOCATION SPECIFIED

Description Weight Weight Percription Rear

MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN

PAINTED SHIFT LEVER, SOLID LINKAGE AIR TO OIL TRANSMISSION COOLER SYNTHETIC TRANSMISSION LUBE

Front Axle and Equipment

DETROIT DA-F-12.0-3 12,000# FF1 71.5 KPI/3.74

DROP SINGLE FRONT AXLE

CONMET PRESET PLUS PREMIUM ALUMINUM

FRONT HUBS

MERITOR EX-L OPTIMIZED AXIAL AIR DISC

FRONT BRAKES

NON-ASBESTOS FRONT BRAKE LINING

FRONT DISC BRAKE ROTORS

FRONT BRAKE DUST SHIELDS

FRONT OIL SEALS

VENTED FRONT HUB CAPS WITH WINDOW,

CENTER AND SIDE PLUGS - OIL

FRONT AIR DISC BRAKE INTERNAL ADJUSTERS

SINGLE POWER STEERING GEAR, BENDIX, 12-

13.3K

2 QUART SEE THROUGH POWER STEERING

RESERVOIR

MINERAL SAE 80/90 FRONT AXLE LUBE

Front Suspension

12,000# DUAL TAPERLEAF FRONT SUSPENSION

MAINTENANCE FREE RUBBER BUSHINGS -

FRONT SUSPENSION

FRONT SHOCK ABSORBERS

Rear Axle and Equipment

RS-21-160 21,000# R-SERIES SINGLE REAR -2,250

AXLE

CONMET PRESET PLUS PREMIUM ALUMINUM

REAR HUBS

2.93 REAR AXLE RATIO

IRON REAR AXLE CARRIER WITH STANDARD

AXLE HOUSING

RPL25 MERITOR MAIN DRIVELINE -20 -20

NO INTERAXLE (#3) DRIVELINE -50

MERITOR EX-L OPTIMIZED AXIAL AIR DISC -50

REAR BRAKES

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	Description	Weight Front	Weight Rear	
	NON-ASBESTOS REAR BRAKE LINING			
	BRAKE CAMS AND CHAMBERS ON REAR SIDE OF DRIVE AXLE(S)			
	REAR DISC BRAKE ROTORS			
	REAR BRAKE DUST SHIELDS		5	
	REAR OIL SEALS			
	AIR DISC LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS		-20	
	REAR AIR DISC BRAKE INTERNAL ADJUSTERS			
	MINERAL SAE 80/90 REAR AXLE LUBE			
	STANDARD REAR AXLE BREATHER(S)			
Rear Suspension				
	23,000# FLAT LEAF SPRING REAR SUSPENSION WITH RADIUS ROD		-410	
	8.5 INCH NOMINAL RIDE HEIGHT (430MM GLOBAL REFERENCE HEIGHT)			
	STANDARD AXLE SEATS IN AXLE CLAMP GROUP			
	NO REAR AIR SUSPENSION VALVE WIRING/LOGIC			
	NO REAR CHASSIS SUSPENSION AIR PIPING			
	FORE/AFT CONTROL RODS			
	NO REAR SHOCK ABSORBERS		-80	
Brake System				
	WABCO 4S/4M ABS			
	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES			
	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE			
	WABCO SYSTEM SAVER 1200 HEATED AIR DRYER WITH PRESSURE CONTROL VALVE			
	WABCO OIL COALESCING FILTER FOR AIR DRYER			
	AIR DRYER MOUNTED UNDER HOOD			
	STEEL AIR BRAKE RESERVOIRS			
	PULL CABLES ON ALL AIR RESERVOIR(S)			
Trailer Connections				
	NO ADDITIONAL TRAILER CABLE RECEPTACLE			

Wheelbase & Frame

3725MM (147 INCH) WHEELBASE

Description	Weight Front	Weight Rear	
8.0MM X 82.0MM X 281.0MM STEEL FRAME (0.32X3.23X11.06 INCH) 120 KSI	99,999	99,999	
950MM (37 INCH) REAR FRAME OVERHANG			
FRAME OVERHANG RANGE: 31 INCH TO 40 INCH	10	-60	
CALC'D BACK OF CAB TO REAR SUSP C/L (CA): 71.65 in			
CALC'D FRAME LENGTH - OVERALL: 229.21			
FRAME HEIGHT TOP FRONT UNLADEN: -10.12 in			
FRAME HEIGHT TOP FRONT LADEN: 38.93 in			
FRAME HEIGHT TOP REAR UNLADEN: 41.88 in			
FRAME HEIGHT TOP REAR LADEN: 26.78 in			
SQUARE END OF FRAME			
STANDARD WEIGHT ENGINE CROSSMEMBER			
STANDARD CROSSMEMBER BACK OF TRANSMISSION			
STANDARD CAST ALUMINUM MIDSHIP			
STANDARD REARMOST CROSSMEMBER			
STANDARD SUSPENSION CROSSMEMBER			
CAST ALUMINUM REAR SUSPENSION CROSSMEMBER			

Chassis Equipment

UNPOLISHED ALUMINUM WST EQUIPMENT COVERS

TEMPORARY STEEL BUMPER -45
REMOVABLE FRONT TOW/RECOVERY 15
DEVICE,STORED ON CHASSIS FRAME

CLASS 10.9 THREADED METRIC FASTENERS; REAR SUSPENSION HANGER TO BE HUCK-SPIN

EXTERIOR HARNESSES WRAPPED IN ABRASION TAPE

NO TOOL/STORAGE BOX #1 MOUNTING LOCATION

NO TOOL/STORAGE BOX #2 MOUNTING LOCATION

NO TIRE PRESSURE CONTROL/SENSOR

CHASSIS,MISC CUSTOM REQUIREMENTS-NONE NO ADDITIONAL LH MID-CHASSIS ROUTING &

CLIPPING BRACKETS

NO ADDITIONAL RH MID-CHAS ROUTING &

CLIPPING BRACKETS

	Description	Weight Front	Weight Rear	
Fifth Wheel				
	NO FIFTH WHEEL RAMP			
Fuel Tanks				
	60 GALLON/227 LITER ALUMINUM FUEL TANK - LH	-20		
	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)			
	EQUIFLO INBOARD FUEL SYSTEM			
	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE			
Tires				
	CONTINENTAL HSR2 11R22.5 14 PLY RADIAL FRONT TIRES	16		
	CONTINENTAL HSR2 11R22.5 14 PLY RADIAL REAR TIRES		32	
Wheels				
	MAXION WHEELS 90262 22.5X8.25 10-HUB PILOT 6.19 INSET 5-HAND STEEL DISC FRONT WHEELS	18		
	MAXION WHEELS 90262 22.5X8.25 10-HUB PILOT 5-HAND STEEL DISC REAR WHEELS		36	
	NO SPARE WHEEL			
	NO ADDITIONAL SPARE WHEEL			
	NO POLISHED, BRIGHT STANDARD POLISH, BRUSHED OR BRIGHT LVL ONE SPARE WHEEL			
	FRONT WHEEL MOUNTING NUTS			
	REAR WHEEL MOUNTING NUTS			
	NO PUSHER/TAG WHEEL MOUNTING NUTS			
Cab Exterior				
	121 INCH BBC ALUMINUM CONVENTIONAL CAB STAINLESS STEEL CAB ACCENT MOLDING			
	NO BAGGAGE DOOR NO SLEEPER DOOR			
	FRONT FENDERS			

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Description	Weight Front	Weight Rear	
INTERIOR GRAB HANDLES WITH ADDED LOWER LH AND RH A PILLAR GRAB HANDLES			
BRIGHT HOOD MOUNTED AIR INTAKE GRILLE, BLACK SCREEN			
X-SERIES STEEL REINFORCED ALUMINUM CAB			
X-SERIES VOCATIONAL HOOD			
HOOD OPENING ASSIST WITH LOCKING STRUT			
PAINTED WESTERN STAR NAMEPLATES			
SINGLE AIR HORN UNDER LH DECK	-4		
SINGLE ELECTRIC HORN			
DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME			
KEY QUANTITY OF 2			
REAR LICENSE PLATE MOUNT END OF FRAME			
LED LOW BEAM AND HIGH BEAM HEADLIGHTS			
ROOF MOUNTED LED MARKER LIGHTS			
DAYTIME RUNNING LIGHTS			
INDIVIDUAL LED STOP/TURN/BACKUP LIGHTS GROMMET MOUNTED BELOW RAIL			
LED SIDE TURN SIGNAL			
NO LOAD LOCK CARRIERS			
C-BAR MIRROR SYSTEM WITH DUAL HEATED MIRRORS WITH INTEGRAL CONVEX, DUAL REMOTE, STAINLESS STEEL BACK COVER, AND BLACK C-BAR			
102 INCH EQUIPMENT WIDTH			
LH AND RH CONVEX MIRRORS INTEGRAL WITH PRIMARY MIRRORS			
RH DOWN VIEW MIRROR			
STANDARD SIDE/REAR REFLECTORS			
NO SECURITY DEVICE			
UNPOLISHED ALUMINUM WST AFTERTREATMENT SYSTEM COVER			
NO SLEEPER VENT			
NO REAR WINDOW	-20		
NO SIDE SLEEPER CAP WINDOWS			
1-PIECE ROPED-IN SOLAR GREEN GLASS WINDSHIELD			
8 LITER (2 GAL) WINDSHIELD WASHER RESERVOIR, CAB MOUNTED, WITHOUT FLUID LEVEL INDICATOR			

Cab Interior

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Weight Weight Rear Description Front

X-SERIES BASE INTERIOR TRIM LEVEL

PACKAGE

CHARCOAL BLACK VINYL BASE LEVEL

INTERIOR

CARBON WITH BASE BLACK ACCENT

BLACK MATS

(2) DASH MOUNTED POWER OUTLETS AND

COIN TRAY

FORWARD ROOF MOUNTED CONSOLE

NO AUX ELECTRICAL VAULT CLEAR SPACE

REQUEST

LH AND RH DOOR STORAGE POCKETS INTEGRATED INTO MOLDED DOOR PANELS

(2) COAT HOOKS ON BACKWALL OF CAB

DIGITAL ALARM CLOCK IN DRIVER DISPLAY

NO CUP/THERMOS HOLDER

NO FIRE EXTINGUISHER

STANDARD HEATER PLUMBING

RADIATOR MOUNTED AIR CONDITIONER

CONDENSER

STANDARD INSULATION

NO BAGGAGE COMPARTMENT LIGHT

STANDARD LED CAB LIGHTING

NO SLEEPER INTERIOR LAMP

LH AND RH ELECTRIC DOOR LOCKS WITH AUTO UNLOCK FEATURE WHEN DOOR IS SET

FROM OPEN TO CLOSED POSITION

BLACK DOOR HANDLES

NO AC 120V CAB WIRING AND AC OUTLET

BASIC 2.0 HIGH BACK AIR SUSPENSION DRIVER

SEAT WITH 1 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION AND TILT

BATTERY BOX MID BACK NON SUSPENSION

PASSENGER SEAT

NO SEAT ARMREST

BLACK MORDURA CLOTH DRIVER SEAT COVER

WITH EMBROIDERED LOGO

BLACK MORDURA CLOTH PASSENGER SEAT

COVER WITH NO LOGO

3 POINT ADJUSTABLE D-RING RETRACTOR

DRIVER AND FIXED D-RING RETRACTOR

PASSENGER SEAT BELTS

NO SUPPLEMENTAL RESTRAINT SYSTEM

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Weight Weight Description Front Rear

4-SPOKE 18 INCH (450MM) BLACK STEERING WHEEL WITH SWITCHES

DRIVER AND PASSENGER INTERIOR SUN VISORS

Instruments & Controls

DIGITAL PANEL LAMP DIMMER SWITCH IN DRIVER DISPLAY

EXTRA GRIP FOOT CLUTCH PEDAL PAD, NON-ADJUSTABLE SUSPENDED PEDALS

ELECTRONIC ACCELERATOR CONTROL

STANDARD CENTER INSTRUMENT PANEL

BLACK GAUGE BEZELS

DUAL NEEDLE PRIMARY AND SECONDARY AIR PRESSURE GAUGE

INTAKE MOUNTED AIR RESTRICTION INDICATOR WITHOUT GRADUATIONS

ELECTRONIC CRUISE CONTROL WITH CONTROLS ON STEERING WHEEL SPOKES

KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY

PREMIUM INSTRUMENT CLUSTER WITH 5.0 INCH TFT COLOR DISPLAY

HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH

2 INCH ELECTRIC FUEL GAUGE

ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE

NO ENGINE OIL TEMPERATURE GAUGE

NO TRANSMISSION TEMPERATURE GAUGE

ELECTRONIC OUTSIDE TEMPERATURE SENSOR DISPLAY IN DRIVER MESSAGE CENTER

ENGINE, TRIP AND PTO HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY

NO PTO CONTROLS

NO OBSTACLE DETECTION SYSTEM

NO VEHICLE STABILITY ADVISOR OR CONTROL

NO LANE DEPARTURE WARNING SYSTEM

ELECTRIC ENGINE OIL PRESSURE GAUGE

AM/FM/WB WORLD TUNER RADIO WITH AUXILIARY INPUT, J1939

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Weight Weight Rear Description Front

DASH MOUNTED RADIO

STANDARD SPEAKER SYSTEM

NO AM/FM RADIO ANTENNA

POWER AND GROUND WIRING PROVISION

OVERHEAD

ROOF/OVERHEAD CONSOLE CB RADIO

PROVISION

SINGLE REMOTE SPEAKER WITH LEAD FOR 2-

WAY RADIO

SINGLE FIBERGLASS LH MIRROR MOUNTED CB

ANTENNA WITH BRACKET AND LEAD

HEADLINER MULTI-BAND ANTENNA:

AM/FM/WEATHERBAND, WIFI/BLUETOOTH,

GNSS/GPS

NO ANTENNA-RADIO, UHF/VHF

NO TELEVISION ANTENNA/PROVISION

ELECTRONIC MPH SPEEDOMETER WITH

SECONDARY KPH SCALE, WITHOUT

ODOMETER

ELECTRONIC 2500 RPM TACHOMETER

DETROIT CONNECT PLATFORM HARDWARE

TMC RP1226 ACCESSORY CONNECTOR

LOCATED BEHIND PASSENGER SIDE

REMOVEABLE DASH PANEL

IGNITION SWITCH CONTROLLED ENGINE STOP

NO HARDWIRE SWITCH #1

NO HARDWIRE SWITCH #2

NO HARDWIRE SWITCH #3

NO HARDWIRE SWITCH #4

NO SW RCPTS & WRG, ALTN CSL LOC

NO PRE TRIP SYSTEM TEST

2 INCH TURBO AIR PRESSURE GAUGE

DIGITAL VOLTAGE DISPLAY INTEGRAL WITH

DRIVER DISPLAY

ROTARY HEADLAMP SWITCH, MARKER

LIGHTS/HEADLIGHTS SWITCH WITH PULL OUT

FOR OPTIONAL FOG/ROAD LAMPS

ONE VALVE PARKING BRAKE SYSTEM WITH

WARNING INDICATOR

SELF CANCELING TURN SIGNAL SWITCH WITH

DIMMER, HEADLAMP FLASH,

WASH/WIPE/INTERMITTENT

Design

Weight Weight Description Front Rear

PAINT: ONE SOLID COLOR

Color

CAB COLOR A: L0006EY WHITE ELITE EY
BLACK, HIGH SOLIDS POLYURETHANE CHASSIS

PAINT

POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)

POWDER WHITE (N0006EA) REAR

WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)

Certification / Compliance

U.S. FMVSS CERTIFICATION, EXCEPT SALES

CABS AND GLIDER KITS

Sales Programs

STARQUOTE STOCK TRUCK SALES PROGRAM

TOTAL VEHICLE SUMMARY

Weight Summary					
	Weight Front	Weight Rear	Total Weight		
Factory Weight ⁺	108448 lbs	103570 lbs	212018 lbs		
Total Weight ⁺	108448 lbs	103570 lbs	212018 lbs		

If weight is critical, contact Customer Application Engineering.

⁽⁺⁾ Weights shown are estimates only.

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