SUBJECT: SEMI-TRUCK WITH SLEEPER

BID #: XF-0370-22 **OPEN DATE: 25 MAY 2022**

GENERAL GOVERNMENT AWARDS COMMITTEE

KIND AND BASIS OF CONTRACT: ONE TIME PURCHASE

AGENCY: FLEET MANAGEMENT

BASIS OF AWARD: All or None, to the lowest responsive, responsible bidder

NUMBER OF BIDS INVITED: 14 **NUMBER RECEIVED:** 2 **OTHER:** 0

SUMMARY OF BIDS AND RECOMMENDED ACTIONS:

Recommend approval of award to Tom Nehl Jacksonville, Inc., as the lowest responsive, responsible bidder for a JFRD semi-truck with sleeper. Total estimated award not to exceed $165,000.00

Funding for this award to be encumbered by account 51103-114001-564010-000000-00000500-00000, to be executed by purchase order.

Attachments: Recommendation Memo, Tabulation Sheet, Terms and Conditions, Specifications

Analyst: JACLYN STAMOS

RESPECTFULLY SUBMITTED: GREGORY PEASE, CHIEF PROCUREMENT DIVISION

CONCURRENCE BY: Crisencio Tongol, Chief, Fleet Management Division

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(ALL AWARD ACTIONS SUBJECT TO LAWFULLY APPROPRIATED FUNDS)
ACTION OF GGAC COMMITTEE ON RECOMMENDATIONS ABOVE

MEMBERS APPROVING _____ MEMBERS DISAPPROVING _____ DATE: _____

_____ _____ OTHER: _____

_____ _____

_____ _____

ACTION OF AWARDING AUTHORITY DATE _____

APPROVED _____ DISAPPROVED _____

OTHER _____

SIGNATURE OF AUTHENTICATION _____

FINANCE AND ADMINSTRATION DEPARTMENT

FLEET MANAGEMENT DIVISION

Jacksonville

Where Florida Begins.

Date: May 31, 2022

To: Gregory Pease, Chief of Procurement Division

Thru: Cris Tongol, Chief of Fleet Management Division

From: David Hylazewski, Equipment Control Administrator DH

Re: Request Approval to of Award for XF-0370-22 JFRD Semi-Truck w/Sleeper or equivalent Products

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Fleet Management Division is requesting approval of award to the lowest responsive, responsible bidder, Tom Nehl Jacksonville, Inc. Total estimated expenditure not to exceed $165,000.00.

Funding Source: 51103.114001.564010.000000.00000500.00000.000000
to be encumbered by purchase order

2581 Commonwealth Ave. Jacksonville, FL 32254 Phone: 904.255.7499 Fax: 904.381.4607 www.coj.net

TITLE: JFRD SEMI-TRUCK WITH SLEEPER OR EQUIVALENT PRODUCTS

BID NO.: XF-0370-22

OPEN DATE: MAY 25, 2022, 2021 @ 2 p.m.

ANALYST: JACLYN STAMOS

No. Invited: (14) No. Received (2) No Bids: (0)

Recorded By: M. PIERCE Announcer: R. BARNETT

ITEM	DESCRIPTION	EST. QTY (GAL.)	TECHNOLOGY INTERNATIONAL, INC. UNIT PRICE	TECHNOLOGY INTERNATIONAL, INC. EXTENDED TOTAL	TOM NEHL JACKSONVILLE, INC. UNIT PRICE	TOM NEHL JACKSONVILLE, INC. EXTENDED TOTAL
	2023 MODEL YEAR SEMI-TRUCK WITH SLEEPER PER SPECIFICATIONS OR EQUIVALENT	1	$ 192,620.00	$ 192,620.00	$ 165,000.00	$ 165,000.00
	GRAND TOTAL :		$ 192,620.00		$ 165,000.00	
	DELIVERY (Business Days):		240		150	
	CONFLICT OF INTEREST:		Y		Y	
	ADDENDUM( ):		N/A		N/A	

TERMS AND CONDITIONS

SEMI-TRUCK WITH SLEEPER OR EQUIVALENT PRODUCTS

1. SCOPE

The City of Jacksonville's Fleet Management Division is currently accepting bids to obtain source(s) of supply for the items as outlined in the bid documents provided. The purpose of this bid invitation is to obtain information about your firm and its ability to provide these items and to obtain pricing commitments for the purchase of Semi-Truck with Sleeper or Equivalent Products as listed in the bid documents.

2. AWARD

Award will be **ALL OR NONE** to the lowest responsive, responsible bidder grand total amount. Bidders must bid on all items to be considered for award. ALL awards are subject to the availability of funds.

As per Section 126.114 of the City of Jacksonville Ordinance Code, preference will be given to a responsive and responsible vendor offering American manufactured, assembled, or produced goods, and who is within 5% of the lowest responsive and responsible bidder. To receive this preference, the bidder must complete the attached Buy American Preference Compliance Certificate and attach supporting documentation and/or evidence attesting that at least 51% offered in the bid response is manufactured, assembled or produced in the United States.

a. Bidder is not required to submit for the Buy American Preference. Bidders may quote items less than 51% American made but will not be eligible for the preference.

b. Restrictions and exemptions may apply. Please refer to Section 126.114 for specifics.

3. TERM OF AGREEMENT

One Time Purchase.

4. MINIMUM REQUIREMENTS

Bidders should submit or comply with the following requirements; failure to submit any of these requirements may be grounds for rejection:

a. Vendor shall provide proof of applicable local business license.

5. STATE CONTRACTS

The City reserves the right to utilize contracts established by the State of Florida and or other governmental agencies for item(s)/service(s) covered under this bid. The city reserves the right to cancel this contract in whole or in part for such item(s)/service(s).

6. PRE-BID CONFERENCE

There is no pre-bid meeting scheduled for this bid.

7. QUANTITIES

Quantities indicated are fixed.

8. DELIVERY

Fleet Management Division, 2581 Commonwealth Avenue, Jacksonville, FL 32254 between the hours of 7:00 am and 11:00 pm. On other than normal business hours and holidays, delivery will be to the Security Guard on duty or as specified by the requestor.

The City or its representative must be able to contact, during normal business hours, by telephone or email any supplier providing goods or services to the city or its agencies. Any supplier accessibility requirements outlined in the specifications supersede this section.

The City may request, during the term of this bid, reports including but not limited to, usage, pricing, and delivery. Suppliers will be required to provide reports requested in hard copy and electronic format as required.

9. ESCALATION/DE-ESCALATION

All pricing submitted shall remain firm for the initial term period. Upon renewal (if applicable), a supplier may submit in writing a request for price escalation/de-escalation for the percentage of change as listed in the Consumer Pricing Index (CPI) and/or documentation notifying of an industry wide increase. The City reserves the right to decline any price increase request.

10. PRICES

All unit prices shall include freight, delivery, and handling charges to the delivery location as outlined in the bid documents.

11. COMPLIANCE WITH SPECIFICATIONS

The bidder, by affixing their signature to the bid form submitted, agrees to provide item(s)/service(s) in accordance with the bid documents provided. Bid only a single offering for each bid item. Multiple offerings, alternates (unless stated) and or stipulations may be cause for bid rejection. Bid only on forms provided herein unless otherwise stated. Bid submissions shall be in ink or typewritten. All corrections must be initialed.

12. INVOICING

Invoices will be issued once supplies/services are delivered and/or rendered to the City of Jacksonville or its agencies. At a minimum, invoices must include; purchase order number, FM number, item number and description, date of service, hours of each item, unit prices, unit of measure and extended totals. Payment terms are Net 30 days. All original invoices shall be submitted to: COJ1CloudInvoices@coj.net. The invoice email subject line **MUST BE**: inv_300000008806179. Invoices can also be submitted through the 1Cloud Supplier Portal

13. INSURANCE/INDEMNIFICATION

Each supplier shall maintain, for the entire term of this bid, current insurance coverage as stated in the bid documents. All insurance certificates shall list the City of Jacksonville as an additional insured. Bid number should be listed on certificate.

14. REPORTING

The City may request, during the term of this bid, reports including but not limited to; usage, pricing, and delivery. Suppliers will be required to provide reports requested in hard copy and electronic format as required.

15. SUPPLIER ACCESSIBILITY

The City or its representative must be able to contact, during normal business hours, by telephone or email any supplier providing goods or services to the City or its agencies. Any supplier accessibility requirements outlined in the specifications supersede this section.

SPECIFICATIONS

JFRD SEMI-TRUCK WITH SLEEPER or EQUIVALENT PRODUCTS

Bidder must submit specifications for equivalent brand with response

1. VEHICLE CONFIGURATION
    a. 126-inch sleepercab
    b. 2023 Model Year Specified
    c. Set Back Axle-Tractor
    d. LH Primary Steeling Location
2. GENERAL SERVICE
    a. Tractor/Trailer Configuration
    b. Domiciled, USA 50 States(Including California and Carb opt-in states)
    c. Linehaul/long haul services
    d. General freight Business segment
    e. General freight commodity
    f. Terrain/duty: 100% (All) of the time, in transit, is spent on paved roads
    g. Maximum 8% expected grade
    h. Smooth concrete or asphalt pavement most severe in-transit(Between sites) road surface
    i. Expected front axle(s) load: 12350.0 lbs
    j. Expected rear drive axle(s) load: 40000.0 lbs
    k. Expected gross vehicle weight capacity: 52350.0 lbs
    l. Expected gross combination weight: 80000.0 lbs
3. TRUCK SERVICE
    a. Tractor only with no body upfit
4. TRACTOR SERVICE
    a. Van Trailer
    b. Single (1) Trailer
5. ENGINE
    a. Detroit DD15 Gen 5 IDP 14.8L 455 HP @ 1500 RPM, 1900 GOV RPM, 1750 LB-FT @ 900 RPM
6. ELECTRONIC PARAMETERS
    a. 65 MPH Road Speed Limit
    b. Cruise control speed limit same as road speed limit, with auto resume after shift
    c. 1650 RPM limit for low gears, 1650 RPM limit for middle gears, 1650 RPM limit for high gears
    d. Fleet Management – daily engine usage enabled
    e. 5 Minutes idle shutdown with clutch and service brake override
    f. Engine brake with global cruise control enabled
    g. Maintenance system with no pop-ups and no menu in cluster
7. ENGINE EQUIPMENT
    a. 2016 onboard diagnostics/2010 EPA/Carb/GHG21 configuration
    b. 2008 Carb emission certification – clean idle (includes 6x4 inch label on lower forward corner of driver door)
    c. Standard oil pan
    d. Engine mounted oil check and fill
    e. Dual side of hood air intake with engine mounted air cleaner
    f. DR 12V 160 amp 28-SI quadramount pad alternator with remote battery volt sense
    g. (4) DTNA genuine, flooded starting and cycling, min 2800CCA, 760RD, threaded stud batteries

h. Steel battery box with enclosed tray
i. Single battery box frame mounted LH side under cab
j. Wire ground return for battery cables with additional frame ground return
k. Plastic battery box cover
l. Positive load disconnect with cab mounted control switch mounted outboard driver seat
m. Positive and negative posts for jumpstart located on frame next to started
n. Progressive low voltage disconnects at 12.3 volts for designated circuits
o. Detroit heavy duty automated manual transmission clutch
p. BW model FE-921 19.0 CFM single cylinder air compressor with safety valve
q. Standard mechanical air compressor governor
r. Air compressor discharge line
s. Electronic engine integral shutdown protection system
t. Jacobs compression brake
u. RH outboard under step mounted horizontal after treatment system assembly with RH Horizontal tailpipe
v. Engine after treatment device, automatic over the road regeneration and virtual regeneration request switch in cluster
w. Standard exhaust system length
x. RH standard horizontal tailpipe
y. 23 Gallon Diesel exhaust fluid tank
z. 100 percent diesel exhaust fluid fill
aa. LH Heavy duty standard diesel exhaust fluid tank location
bb. Standard def tank cap in center panel cutout
cc. Air powered on/off engine fan clutch
dd. Automatic fan control without dash switch, non-engine mounted
ee. DDC supplied engine mounted fuel filter/fuel water separator with water in fuel indicator
ff. Full flow oil filter
gg. 1400 square inch fuel economy radiator
hh. Antifreeze to -34F, oat (Nitrite and silicate free) extended life coolant
ii. Gates blue stripe coolant hoses or equivalent
jj. Constant tension hose clamps for coolant hoses
kk. Standard radiator mounting
ll. HDEP variable speed coolant pump and radiator drain valve
mm. Lower radiator guard
nn. Aluminum flywheel housing
oo. Mitsubishi 12V mod 3.175-DP60 Starter with integrated magnetic switch

8. TRANSMISSION
   a. DT-12-1750-OHE efficient on-highway 12 speed overdrive automated manual transmission
9. TRANSMISSION EQUIPMENT
   a. DT-12 performance package: Economy and performance, with ICU control menus with kickdown
   b. Reverse gear range limited to 2nd gear
   c. No TCU-AMT shift calibration
   d. Aluminum clutch housing
   e. magnetic plugs, engine drain, transmission fill and drain, axle(s) fill and drain
   f. Heavy duty electronic transmission shift control, column mounted
   g. Air to oil transmission cooler
   h. Synthetic transmission lube

10. FRONT AXLE AND EQUIPMENT
    a. Detroit DA-F-13-3 13.300# FF1 71.5 KPI/3.74 drop single front axle
    b. Meritor EX+LS axial air disc front brakes
    c. 2011/2013-FMVSS 121 RSD front brake lining
    d. Front disc brake rotors
    e. Front oil seals
    f. Vented front Hub caps with window, center, and side plugs-oil
    g. Standard spindle E nuts for all axles
    h. Front air disc brake internal adjusters
    i. TRW THP-60 Power steering
    j. Power steering pump
    k. 2 quart see through power steering reservoir
    l. Guaranteed name brand "Roadranger synthetic" FE 75W-90 front axle lube
11. FRONT SUSPENSION
    a. 13.300# taperleaf front suspension
    b. Maintenance free rubber bushings – front suspension
    c. Front shock absorbers
12. REAR AXLE AND EQUIPMENT
    a. Detroit DA-RT-40.0-4S HH 40,000# R-Series tandem rear axle
    b. 2.64 Rear axle ratio
    c. Iron rear axle carrier with standard axle housing
    d. RPL25SD Meritor main driveline
    e. RPL20 Meritor interaxle driveline
    f. (1) Interaxle lock valve for tandem or tridem drive axles
    g. Indicator light for each interaxle lockout switch with IAD feedback
    h. Meritor EX+LS axial air disc rear brakes
    i. 2011/2013-FMVSS 121 RSD rear brake linings
    j. Standard brake chamber location
    k. Rear disc brake rotors
    l. Rear oil seals
    m. Air disc long stroke 1-drive axle spring parking chambers
    n. Rear air disc brake internal adjusters
    o. FE 75W-85 rear axle lube
    p. Standard rear axle breather(s)
13. REAR SUSPENSION
    a. Airliner 40,000# Rear suspension
    b. 7.9-inch nominal ride height (415MM global reference height)
    c. Standard axle seats in axle clamp group
    d. 5.1-inch axle spacing
    e. Manual dump valve for air suspension without gauge
    f. Indicator light and buzzer for each rear suspension control switch
    g. Single air rear suspension leveling valve
    h. Transverse control rods
    i. Rear shock absorbers – two axles (Tandem)(Air Ride suspension)
14. BRAKE SYSTEM
    a. Wabco 6S/4M ABM with hall start aid and transction control with ATC shut off switch
    b. Reinforced nylon, fabric braid and wire braid chassis air lines
    c. Fiber braid parking brake hose

d. Standard brake system valves
e. Std U.S. front brake valve
f. Relay valve with 5-8 PSI crack pressure, no rear proportioning valve
g. Wabco system saver HP with integral air governor and heater
h. Wabco oil coalescring filter for air dryer
i. Air dryer mounted under hood
j. Steel air brake reservoirs
k. (1) 620 cubic inch aluminum transmission air tank, inlet check valve
l. Pull cables on all air reservoir(s)

15. TRAILER CONNECTIONS
    a. 12-foot coiled trailer air hose with 45-degree fittings at back of cab with 48 inch tractor, 12-inch trailer leads
    b. 36-inch stainless steel slide bar with spring type air hose hanger
    c. Combination dummy glad hands and light plug holder mounted LH back of cab with ground access
    d: Primary connector/receptacle wired for separate stop/turn, ABS center pin powered through ignition
    e. SAE J560 7-way primary trailer cable receptacle bracket LH lower cab mounted extreme outboard
    f. 12 foot Philips lectracoil detachable coiled electrical cable with metal housing ends and 48 inch tractor, 12 inch trailer leads
16. WHEELBASE & FRAME
    a. 6075MM (239 inch) wheelbase
    b. 7.0MM x 88.0MM x 279.0MM steel frame (0.28x3.46x10.98 inch) 120KSI
    c. 1400MM (55-inch) rear frame overhang
    d. Frame overhang range: 51-inch to 60-inch
    e. Calc'd back of cab to rear susp C/L (CA): 101.18 in
    f. Calculated effective back of cab to rear suspension C/L (CA): 95.59 in
    g. Calc'd frame length-overall: 325.99 in
    h. Calculated frame space LH side: 17.19 in
    i. Calculated frame space RH side: 27.56 in
    j. Calc'd space available for deckplate: 55.47 in
    k. Under or overslung crossmember
    l. Flanged tapered end of frame
    m. Front closing crossmember
    n. Lightweight heavy duty aluminum engine crossmember
    o. Standard midship #1 crossmember(s)
    p. Standard rearmost crossmember
    q. Standard suspension crossmember
17. CHASSIS EQUIPMENT
    a. LH back of cab access
    b. Flush mounted aluminum deck plate from back of cab to fifth wheel
    c. Painted aerodynamic bumper with chrome overlay
    d. Removable front tow/recovery device, stored on chassis frame
    e. Bumper mounting for (3) license plates
    f. Betts B-60S stainless steel mudflap backets
    g. Black mudflaps
    h. Front anti-spray cab mounted mudflaps
    i. Huck-spin round collar chassis fasteners excluding fifth wheel
    j. Exterior harnesses wrapped in abrasion tape

k. Plastic quarter fenders without logo with aerodynamic spoiler

18. FIFTH WHEEL
    a. Frontaine no-clack II 6000 series 6LWB 24.0-inch air slide fifth wheel – 2 inch slide increments
    b. Fifth wheel 305MM (12.0 inches) ahead of suspension centerline
    c. 197MM (7.75-inch) fifth wheel height
    d. Steel outboard angle – fifth wheel mounting
    e. Dash mounted control and plumbing for fifth wheel
    f. Side left fifth wheel release
19. FUEL TANKS
    a. 130 Gallon/492-liter aluminum fuel tank – RH
    b. 130 Gallon/492-liter aluminum fuel tank – LH
    c. 25-inch diameter fuel tank(s)
    d. Plain aluminum/painted steel fuel/hydraulic tank(s) with painted bands
    e. Fuel tank(s) AFT
    f. Polished step finish
    g. Fuel tank cap(s)
    h. Detroit fuel/water separator with bypass and 12-volt preheater
    i. Equiflo inboard fuel system
    j. High temperature reinforced nylon fuel line
20. TIRES
    a. Michelin X line energy Z 275/80R22.5 16 ply radial front tires
    b. Michelin X Multi Energy D 275/80R22.5 14 ply radial rear tires
21. HUBS
    a. Conmet preset plus premium aluminum front hubs
    b. Conmet preset plus premium aluminum rear hubs
    c. Alcoa LVL one 88267x 22.5x8.25 10-hub pilot 5.80 inset aluminum disc front wheels
    d. Alcoa LVL one 88267x22.5x8.25 10-hubs pilot aluminum disc rear wheels
    e. Polished front wheels: outside only
    f. Polished rear wheels: outside of outer wheels only
    g. Front wheel mounting nuts
    h. Rear wheel mounting nuts
    i. No pusher/tag wheel mounting nuts
22. CAB EXTERIOR
    a. 126-inch BBC aluminum conventional cab
    b. RH cab door(s) with 70-degree door stop
    c. LH cab door(s) with 70-degree door stop
    d. 72-inch raised roof sleepercab
    e. Raised roof aerodynamic spoiler, black
    f. 24-inch cab/sleepercab side extenders with black flexible ends and chassis fairing gap filler panel
    g. Under cab vanity panels
    h. Painted frame side fairings to back of side extenders
    i. Latched front left side fairing panel for battery access
    j. No aerodynamic skirt for chassis fairings
    k. LH and RH baggage doors
    l. Air cab mounting
    m. Nonremovable bugscreen mounted behind grille
    n. RH sleeper door
    o. Interior grab handles with added lower LH and RH a pillar grab handles

p. Chrome grille with integral surround
q. Black hood mounted air intake grille with bright accent
r. Aerodynamic hood
s. Hood opening assist
t. New Cascadia nameplate
u. Single air horn under LH deck
v. Single electric horn
w. Door locks and ignition switch keyed the same
x. Key quantity of 4
y. Rear license plate mount end of frame
z. LED low beam and high beam headlights
aa. Visor mounted LED marker lights
bb. LED fog lights
cc. Daytime running lights
dd. Freightliner LED stop/tail/turn/backup lights by truck-lite
ee. LED side turn signal
ff. (2) Flush LED utility lights mounted back of cab/sleeper
gg. Dual bright finish heated aerodynamic mirrors with integral convex and LH and RH remote
hh. door mounted mirrors
ii. RH down view mirror
jj. RH and LH heated bright finish hood/fender mounted mirrors
kk. Standard side/rear reflectors
ll. Rear reflective device
mm. No sleeper vent
nn. Exterior Sun Visor
oo. Solar tinted door glass LH and RH with tinted forward side glass
pp. RH and LH electric powered windows
qq. LH and RH solar tinted and screened crank out sleeper cap windows
rr. .LH and RH Tinted and screened sliding windows
ss. 1-piece roped-in solar green glass windshield
tt. 8 liter (2 Gal) windshield washer reservoir, cab mounted, without fluid level indicator

23. <u>CAB INTERIOR</u>

a. slate gray up level interior
b. Slate gray with Mughal teak woodgrain hard trim
c. Standard LH door trim
d. Standard RH door trim
e. Black Mats
f. Carpet in sleeper area
g. Black mats in baggage compartment
h. (3) dash mounted power outlets and coin tray
i. Sleeper tall closet with upper storage
j. Microwave shelf with upper storage and factory installed refrigerator
k. Forward roof mounted console with doors RH and LH
l. LH and RH door storage pockets integrated into molded door panels
m. Storage pockets(s) mounted inside cabinet door(s)
n. Driver loft: murphy bed with foldable seats and table
o. Folder upper bunk
p. Tent style lower bunk restraint
q. Digital alarm clock in driver display
r. Wind dash with e-vault

s. 5 lb. fire extinguisher mounted in RH baggage compartment
t. Heater, defroster, and air conditioner with constant outlet temperature control
u. HVAC ducting with main fresh air filter
v. Main HVAC controls with recirculation switch
w. Auxiliary heater/air conditioner with constant outlet temperature control
x. Standard heater plumbing
y. Valeo heavy duty A/C refrigerant compressor
z. Radiator mounted air conditioner condenser
aa. Binary control, R-134A
bb. Standard insulation
cc. Solid-State circuit protection and fuses
dd. 12V negative ground electrical system
ee. Door and bunk activated LH and RH bunk mounted LED baggage compartment lights
ff. Premium LED cab lighting
gg. Premium LED sleeper lighting
hh. Cab doorlatches with manual door locks
ii. Bright door handles
jj. Quilted spring mattress in lower bunk and spring mattress in upper bunk
kk. (3) 12 volt power outlets in bunk area
ll. AC 120 volt cab wiring and AC outlet with shore power only
mm. Cab privacy curtain
nn. Built-in refrigerator
oo. Triangular reflectors without flares mounted in LH baggage compartment
pp. Elite 2.0 high back air suspension driver seat w/2 air lumbar, active bolster, integrated cushion extension, tilt, adjustable shock, map pocket, heat & ventilation
qq. Elite 2.0 high back air suspension passenger seat w/2 air lumbar, active bolster, integrated cushion extension, tilt, adjustable shock, map pocket, heat 7 ventilation
rr. Black suspension cover for driver and passenger seats
ss. Dual driver and passenger seat armrests
tt. Black Laredo leather driver seat cover
uu.Black Laredo leather passenger seat cover
vv. 3 point adjustable D-ring retractor driver and fixed D-ring retractor passenger seat belts
ww. Sleeper curtain
xx. Adjustable tilt and telescoping steering column
yy. 4-spoke 18=inch (450MM0 leather wrapped steering wheel with chrome switch bezels
zz. Driver and passenger interior sun visors

24. <u>INSTRUMENTS & CONTROLS</u>

a. Electronic accelerator control with kickdown feature
b. Standard center instrument panel
c. Black gauge bezels
d. Low Air Pressure indicator light and audible alarm
e. Dual needle primary and secondary air pressure gauge
f. Intake mounted air restriction indicator with graduations
g. Electronic cruise control with intelligent powertrain management and controls on steering wheel spokes
h. Key operated ignition switch and integral start position: 4 position off/run/start/accessory
i. Premium instrument cluster with 5.0-inch TFT color display
j. Digital panel lamp dimmer switch in driver display
k. Heavy duty onboard diagnostics interface connector located below LH dash
l. 2-inch electric fuel gauge

m. Fuel filter restriction indicator
n. Emissions limited idle adjust
o. Dual rear axle temperature gauges with sensor shield
p. Electrical engine coolant temperature gauge
q. Digital engine oil temperature in driver display
r. Digital transmission oil temperature in driver display
s. Electronic outside temperature sensor display in driver message center
t. Engine, trip and PTO hour meters integral within driver display
u. Detroit assurance, active brake assist 5, with adaptive cruise control to 0 MPH and fixed headway
v. No side object detection system
w. No mirror camera system
x. Electronic stability control
y. No service brake actuation hold(SCO)
z. Detroit assurance 5.0 lane departure warning system with 15 minute off timeout dash switch
aa. Traffic sign display
bb. Electric engine oil pressure gauge
cc. AM/FM/WB world tuner radio with siriusxm, Bluetooth, IPOD interface, USB and auxiliary inputs, J1939
dd. Dash mounted radio
ee. Standard speaker system
ff. 60 inch (sleeper) or 54 inch (day cab) AM/FM antenna mounted on RH rear cab/sleeper wall with RG62 cable
gg. Power and ground studs on top of dash
hh. Top of dash mount CB radio provision with plate and straps
ii. Integrated aero-roof CB antenna
jj. Headliner multi-bank antenna: AM/FM/Weatherband, WIFI/Bluetooth GNSS/GPS
kk. Interoperable SDAR antenna
ll. Flat screen TV mount with TV antenna
mm. Electronic MPH speedometer with secondary KPH scale, without odometer
nn. Standard vehicle speed sensor
oo. Electronic 2500 RPH tachometer
pp. Detroit connect platform hardware
qq. 5 years Detroit connect safety event viewer package for Detroit assurance(includes base package features)
rr. (3) TMC RP 1226 accessory connectors: (2) located behind passenger side removable dash panel, and (1) located center of overhead console
ss. Ignition switch controlled engine stop
tt. One extra switch in dash with indicator lamp and wire to chassis at back of cab/sleeper
uu. Pre-trip inspection feature for exterior lamps only
vv. Steering wheel mounted electric horn control
ww. BW tractor protection valve
xx. Trailer hand control brake valve
yy. Digital turbo air pressure in driver display
zz. Digital voltage display integral with driver display
1. Single electric windshield wiper motor with delay
2. Rotary headlamp switch, marker lights/headlights switch with pull out for optional fog/road/ lamps
3. Two valve parking brake system with dash valve control autoneutral and warning indicator
4. Self-canceling turn signal switch with dimmer, headlamp flash, wash/wipe/intermittent

5. Integal electronic turn signal flasher with 40 amp (20 amp per side) trailer lamp capacity
6. No multimedia box
7. No navigation

25. DESIGN
    a. Paint: one solid color
26. COLOR
    a. Cab color A: L0006EY white elite EY
    b. Black, high solids polyurethane chassis paint
    c. Chassis side fairings painted same as lower cab section or fender
    d. Bumper paint: L0006EY white elite EY
    e. Sunvisor painted same as cab color A
27. CERTIFICATION/COMPLIANCE
    a. U.S. FMVSS certification, except sales cabs and glider kits
28. RAW PERFORMANCE DATA
    a. Calculated effective back of cab to rear suspension C/L (CA): 95.59 in
    b. Calc'd space available for deckplate: 55.47in
29. EXTENDED WARRANTY
    a. towing: 2 years/unlimited miles/KM extended towing coverage $550 cap Fex Applies

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