



TANEY COUNTY MISSOURI

Purchasing Department 132 David Street / P. O. Box 1630 Forsyth, Missouri 65653

REQUEST FOR BID No. 201303-217

Taney County will accept separate sealed Bids from qualified persons or firms interested in providing the following:

COMPLETE TANDEM AXLE DUMP TRUCKS (2)

BIDS *MUST* BE RECEIVED BY:

4:00 P.M. LOCAL TIME ON Tuesday April 30, 2013

TO BE OPENED AT: 9:30 AM LOCAL TIME ON Wednesday May 1, 2013

PLEASE MARK YOUR ENVELOPE "SEALED BID #201303-217"

RETURN ONE (1) ORIGINAL AND THREE (3) COPIES TO:

Taney County Purchasing Department
Attn: Ron Erickson, Director of Purchasing
132 David Street / P. O. Box 1630
Forsyth, Missouri 65653

PHONE: 417-546-7281 / FAX: 417-546-3931

rone@co.taney.mo.us

The undersigned certifies that they have the authority to bind this company in an agreement to supply the commodity or service in accordance with all terms, conditions, and pricing specified herein or to offer a “no Bid.” Please type or print the information below. Bidder is REQUIRED to complete, sign and return this form, as well as all pages of this RFB – initialed, with their submittal of Bid. * An authorized signature is **mandatory**, lack thereof will result in a determination of “Non-Responsive”. Also required is a direct email address in order to receive award results. We do not use USPS for direct results notification *only* email. In addition final results will later be posted on our website at: www.taneycounty.org. Please do not call for results.

Company Name

Authorized Person (Print)

Address

Signature

City/County/State/Zip

Title

Telephone #

Fax #

Date

Tax ID #

E-mail

Entity Type (Corporation, LLC, Sole Proprietor, Partnership)

BIDDER'S INITIALS: _____

INSTRUCTIONS AND GENERAL CONDITIONS

- 1) **Delivery of:** Sealed Bids, subject to Instructions and General Conditions and any special conditions set forth herein, will be received at the Taney County Purchasing Office until the Bid closing date and time indicated herein for furnishing the County with goods, and or, services as detailed in the following Request for Bid.
- 2) **Closing:** Sealed Bids must be delivered before 4:00 P.M. central time on Tuesday April 30, 2013 to the Taney County Purchasing Department as listed on page one. Bidders should take into account all possible risks of their Bid not arriving in time when electing to mail in Bids too close to the above closing date. Often the Post Office leaves a "pick up slip" in our PO Box which may / may not allow us time to retrieve said item. It is the Bidders responsibility, not the county, nor the Post Office – to ensure their sealed Bids are **delivered** in time – to the Purchasing Department. (Be extra careful when your Bid response involves a large package or box.)
- 3) The County will not accept any Bids received after the above listed closing date/time and will consider such late Bids as **NON-RESPONSIVE**. They will either be; filed, returned, or discarded.
- 4) Bids will be opened publicly at 9:30 AM on May 1, 2013 and read aloud. All Bid responses will be considered public information as soon as they are opened and become a part of public record to be released to any person or firm that requests it.
- 5) Bids may be withdrawn on written request from the Offeror at the address shown in this RFB prior to the time of acceptance of the Bid.
- 6) Bids **must** be submitted in a sealed envelope identified with the Bid number and dates of closing & opening. List the Bid number on the outside of the box or envelope and note "Response to Request for Bid enclosed". Also include a return name & address. **No fax or electronic transmitted Bids will be accepted.**
- 7) If you do not want to submit a Bid, please return the *No Bid Response Form* on page # 28 of this package, and note your reason.
- 8) This County is not responsible for any expenses which proposers may incur in estimating, inspecting, nor preparing and submitting Bids called for in this Request for Bid.
- 9) The County reserves the right to conduct personal interviews or require presentations of any or all proposers prior to selection. The County will not be liable for any costs incurred by the proposer in connection with such interviews or presentations (i.e. travel accommodations, etc.)
- 10) All Bids submitted shall be binding, and remain firm for ninety (90) calendar days following the opening. Pricing / Costs submitted within this response **MUST BE HONORED** within that set timeframe, **NO EXCEPTIONS**. Offerors should NOT respond unless certain on this point.
- 11) The Taney County Commission reserves the right to reject any or all Bids, when such rejection is in the best interest of the County.
- 12) Bids may be awarded to one company or multiple companies; when such award is deemed in the best interest of the County.
- 13) County standard payment terms are Net 30 after receipt of invoice.
- 14) This agreement shall take effect upon the approval by the Taney County Commission.


INTRODUCTION AND GENERAL INFORMATION

Introduction:

This document constitutes a request for sealed Bids for **Complete Tandem Axle Dump Trucks (2)** as set forth herein.

- 1) Organization – This document, referred to as a Request for Bid (RFB), is divided into the following parts:
 - Instructions and General Conditions
 - Introduction and General Information
 - Specifications
 - Bid Page / No Bid Response Form
 - Standard Terms and Conditions
 - Miscellaneous Bidding Process Information

Guidelines for Written Questions:

- 1) All questions regarding this Request for Bid shall be submitted in writing, **prior to the Bid opening** and no later than **9:00 AM Wednesday April 24, 2013**. All questions must be emailed to: **Ron Erickson, Director of Purchasing**. (rone@co.taney.mo.us)
- 2) All such questions will be answered in writing, and such answers will be provided to all parties having obtained a Request for Bid packet by the County posting the addendum on the Taney County Web site at: www.taneycounty.org one full week prior to Bid opening date.
- 3) Once at our website click on: . Any/all addenda will be attached at the end of the posted Bid. An indication, in red, will alert visitors as to the presence of any addenda.
- 4) In the event that it becomes necessary to revise any part of this RFB, written addenda will be issued. Any addendum to this RFB is valid only if in writing and issued by the Taney County Purchasing Department.
- 5) **Timeline:** The County anticipates a contract award following the evaluation of all Bid responses within **45 days from the RFB opening date and completion**. These dates are provided for informational purposes and may change as requirements dictate.
- 6) **Sunshine Laws:** Due to applicable sunshine laws and regulations concerning public documents, all Bid responses will be considered public information as soon as they are opened and become a part of public record releasable to any person or firm that requests it. Requests for copies, of Bid responses, must be made through the Taney County Clerk's Office (417-546-7202) requiring a Public Service Request Form (PSR). By law charges for time spent as well as a cost per page apply. Payment for copying fees is required prior to the making of copies. (*Section 610.026, RSMo.*)

SPECIFICATIONS:

The Taney County Road & Bridge Department is seeking sealed Bids for **Complete Tandem Axle Dump Trucks (2)** at the **Best / Lowest** price – per the specifications below. The county will purchase two brand new complete units. Vendors are asked not to submit responses to only one or two aspects / components, please respond only with a complete package / offer.

For questions concerning **actual required specifications, or any other technical questions**, please contact:

Randy Haes,
Coordinator
Taney County Road & Bridge
417-546-7268 (off) / 417-546-7924 (cell)
randyh@co.taney.mo.us

***Taney County Road & Bridge Specifications on a
Chassis***

**Freightliner 114SD
or
Equivalent**



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

S P E C I F I C A T I O N S

Price Level

SD PRL-04D (EFF:07/26/12)

Data Version

SPECPRO21 DATA RELEASE VER 023

Vehicle Configuration

114SD CONVENTIONAL CHASSIS
2014 MODEL YEAR SPECIFIED
SET BACK AXLE - TRUCK
TRAILER TOWING PROVISION AT END OF
FRAME FOR TRUCK
LH PRIMARY STEERING LOCATION

General Service

TRUCK/TRAILER CONFIGURATION
DOMICILED, USA 50 STATES (INCLUDING
CALIFORNIA AND CARB OPT-IN STATES)
CONSTRUCTION SERVICE
GOVERNMENT BUSINESS SEGMENT
DIRT/SAND/ROCK COMMODITY
TERRAIN/DUTY: 10% (SOME) OF THE TIME, IN
TRANSIT, IS SPENT ON NON-PAVED ROADS
MAXIMUM 8% EXPECTED GRADE
MAINTAINED DIRT OR SOFT SOIL - MOST
SEVERE IN-TRANSIT (BETWEEN SITES) ROAD
SURFACE
FREIGHTLINER LEVEL II WARRANTY
EXPECTED FRONT AXLE(S) LOAD : 20000.0 lbs
EXPECTED REAR DRIVE AXLE(S) LOAD :
40000.0 lbs
EXPECTED GROSS VEHICLE WEIGHT
CAPACITY : 60000.0 lbs
EXPECTED GROSS COMBINATION WEIGHT :
80000.0 lbs

Truck Service

END DUMP BODY

Engine

DETROIT DD13 12.8L 410 HP @ 1800
RPM, 2080 GOV RPM, 1450 LB/FT @ 1100
RPM (Or equivalent)

Electronic Parameters

65 MPH ROAD SPEED LIMIT
CRUISE CONTROL SPEED LIMIT SAME AS
ROAD SPEED LIMIT
3 MINUTES IDLE SHUTDOWN WITH CLUTCH AND
BRAKE OVERRIDE

Engine Equipment

2013 ONBOARD DIAGNOSTICS/2010
 EPA/CARB/GHG14
 2008 CARB EMISSION CERTIFICATION CLEAN
 IDLE (INCLUDES 6X4 INCH LABEL ON LOWER
 FORWARD CORNER OF DRIVER DOOR)
 ENGINE MOUNTED OIL CHECK AND FILL
 SIDE OF HOOD AIR INTAKE WITH FIREWALL
 MOUNTED DONALDSON AIR CLEANER AND
 INSIDE/OUTSIDE AIR WITH SNOW DOOR
 DR 12V 160 AMP 28-SI QUADRAMOUNT PAD
 ALTERNATOR WITH REMOTE BATTERY VOLT
 SENSE
 (3) ALLIANCE MODEL 1231, GROUP 31, 12 VOLT
 MAINTENANCE FREE 3375 CCA THREADED
 STUD BATTERIES
 BATTERY BOX FRAME MOUNTED
 STANDARD BATTERY JUMPERS
 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
 POSITIVE LOAD DISCONNECT WITH CAB
 MOUNTED CONTROL SWITCH MOUNTED
 OUTBOARD DRIVER SEAT
 POSITIVE AND NEGATIVE POSTS FOR
 JUMPSTART LOCATED ON FRAME NEXT TO
 STARTER
 BW MODEL BA-921 19.0 CFM SINGLE
 CYLINDER AIR COMPRESSOR WITH SAFETY
 VALVE
 ELECTRONIC ENGINE INTEGRAL SHUTDOWN
 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
 09 FOOT 06 INCH (114 INCH+0/-5 INCH)
 EXHAUST SYSTEM HEIGHT
 RH CURVED VERTICAL TAILPIPE B-PILLAR
 MOUNTED ROUTED FROM STEP
 13 GALLON DIESEL EXHAUST FLUID TANK
 STANDARD DIESEL EXHAUST FLUID PUMP
 MOUNTING
 LH MEDIUM DUTY STANDARD DIESEL
 EXHAUST FLUID TANK LOCATION

STANDARD DIESEL EXHAUST FLUID TANK
CAP
ALUMINUM AFTERTREATMENT
DEVICE/MUFFLER/TAILPIPE SHIELD(S)
BORG WARNER (KYSOR) REAR AIR ON/OFF
ENGINE FAN CLUTCH
AUTOMATIC FAN CONTROL WITHOUT DASH
SWITCH, NON ENGINE MOUNTED
DDC SUPPLIED ENGINE MOUNTED FUEL
FILTER/FUEL WATER SEPARATOR WITH
WATER-IN-FUEL INDICATOR
FULL FLOW OIL FILTER
DDC SUPPLIED COOLANT FILTER, ENGINE
MOUNTED
1500 SQUARE INCH ALUMINUM RADIATOR
ANTIFREEZE TO -34F, NOAT EXTENDED LIFE
COOLANT
GATES BLUE STRIPE COOLANT HOSES OR
EQUIVALENT
CONSTANT TENSION HOSE CLAMPS FOR
COOLANT HOSES
RADIATOR DRAIN VALVE
1350 ADAPTER FLANGE FOR FRONT PTO
PROVISION
PHILLIPS-TEMRO 1500 WATT/115 VOLT BLOCK
HEATER
BLACK PLASTIC ENGINE HEATER
RECEPTACLE MOUNTED UNDER LH DOOR
DELCO 12V 39MT+ HD/OCP STARTER WITH
THERMAL PROTECTION AND INTEGRATED
MAGNETIC SWITCH

Transmission

ALLISON 4000 RDS AUTOMATIC
TRANSMISSION WITH PTO PROVISION

Transmission Equipment

WTEC CALIBRATION - 6 SPEED RDS/TRV
(PACKAGE 113)
MAGNETIC PLUGS, ENGINE DRAIN,
TRANSMISSION DRAIN, AXLE(S) FILL AND
DRAIN
PUSH BUTTON ELECTRONIC SHIFT CONTROL,
DASH MOUNTED
TRANSMISSION PROGNOSTICS - ENABLED 2013
WATER TO OIL TRANSMISSION COOLER,
FRAME MOUNTED
TRANSMISSION OIL CHECK AND FILL WITH
ELECTRONIC OIL LEVEL CHECK
SYNTHETIC TRANSMISSION FLUID (TES-295
COMPLIANT)

Front Axle and Equipment

DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74
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
SKF SCOTSEAL PLUS XL FRONT OIL SEALS
VENTED FRONT HUB CAPS WITH WINDOW,
CENTER AND SIDE PLUGS - OIL
STANDARD SPINDLE NUTS FOR ALL AXLES
MERITOR 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
ORGANIC SAE 80/90 FRONT AXLE LUBE

Front Suspension

20,000# TAPERLEAF FRONT SUSPENSION
GRAPHITE BRONZE BUSHINGS WITH SEALS -
FRONT SUSPENSION
FRONT SHOCK ABSORBERS

Rear Axle and Equipment

MT-40-14X 40,000# R-SERIES TANDEM REAR
AXLE WITHOUT PUMP
5.29 REAR AXLE RATIO
IRON REAR AXLE CARRIER WITH OPTIONAL
HEAVY DUTY AXLE HOUSING
MXL 176T 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 AND REAR-REAR AXLE
VALVE
BLINKING LAMP WITH EACH MODE SWITCH,
INTERAXLE UNLOCK DEFAULT WITH
IGNITION OFF
BLINKING LAMP WITH EACH MODE SWITCH,
DIFFERENTIAL UNLOCK WITH IGNITION OFF,
ACTIVE <5 MPH

MERITOR 16.5X8.62 Q+ CAST SPIDER CAM
REAR BRAKES, DOUBLE ANCHOR,
FABRICATED SHOES
NON-ASBESTOS REAR BRAKE LINING
BRAKE CAMS AND CHAMBERS ON FORWARD
SIDE OF DRIVE AXLE(S)
CONMET CAST IRON REAR BRAKE DRUMS
SKF SCOTSEAL PLUS XL REAR OIL SEALS
HALDEX GOLDSEAL LONGSTROKE 2-DRIVE
AXLES SPRING PARKING CHAMBERS
HALDEX AUTOMATIC REAR SLACK
ADJUSTERS
ORGANIC SAE 80/90 REAR AXLE LUBE

Rear Suspension

TUFTRAC 40,000# 2-STAGE REAR SPRING
SUSPENSION
TUFTRAC STANDARD RIDE HEIGHT
AXLE CLAMPING GROUP
54 INCH AXLE SPACING
FORE/AFT AND TRANSVERSE CONTROL RODS
REAR SHOCK ABSORBERS - TWO AXLES
(TANDEM)

Brake System

WABCO 4S/4M ABS WITHOUT TRACTION
CONTROL
REINFORCED NYLON, FABRIC BRAID AND
WIRE BRAID CHASSIS AIR LINES
FIBER BRAID PARKING BRAKE HOSE
STANDARD BRAKE SYSTEM VALVES
STANDARD AIR SYSTEM PRESSURE
PROTECTION SYSTEM
STD U.S. FRONT BRAKE VALVE
RELAY VALVE WITH 5-8 PSI CRACK PRESSURE,
NO REAR PROPORTIONING VALVE
WABCO SS-1200 PLUS AIR DRYER WITH
INTEGRAL AIR GOVERNOR AND HEATER
WABCO OIL COALESCING FILTER FOR AIR
DRYER
AIR DRYER MOUNTED INBOARD ON LH RAIL
STEEL AIR BRAKE RESERVOIRS
PULL CABLES ON ALL AIR RESERVOIR(S)

Trailer Connections

AIR CONNECTIONS TO END OF FRAME WITH
GLAD HANDS FOR TRUCK WITH 36 INCHES
ADDITIONAL LINE END OF FRAME
PRIMARY CONNECTOR/RECEPTACLE WIRED
FOR SEPARATE STOP/TURN, CENTER PIN
POWERED THROUGH IGNITION

SAE J560 7-WAY PRIMARY CABLE
RECEPTACLE MOUNTED END OF FRAME WITH
36" ADDITIONAL CABLE AT REAR
CROSSMEMBER
UPGRADED CHASSIS MULTIPLEXING UNIT

Wheelbase & Frame

5175MM (204 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
1600MM (63 INCH) REAR FRAME OVERHANG
FRAME OVERHANG RANGE: 61 INCH TO 70
INCH
24 INCH INTEGRAL FRONT FRAME EXTENSION
CALC'D BACK OF CAB TO REAR SUSP C/L (CA) :
138.45 in
CALCULATED EFFECTIVE BACK OF CAB TO
REAR SUSPENSION C/L (CA) : 135.45 in
CALC'D FRAME LENGTH - OVERALL : 336.61
CALC'D SPACE AVAILABLE FOR DECKPLATE :
138.45 in
FRAME SPACE LH SIDE : 42.95 in
FRAME SPACE RH SIDE : 92.63 in
SQUARE END OF FRAME
FRONT CLOSING CROSSMEMBER
STANDARD WEIGHT ENGINE CROSSMEMBER
STANDARD MIDSHIP #1 CROSSMEMBER(S)
STANDARD REARMOST CROSSMEMBER
HEAVY DUTY SUSPENSION CROSSMEMBER

Chassis Equipment

OMIT FRONT BUMPER, CUSTOMER INSTALLED
SPECIAL BUMPER, DOES NOT COMPLY WITH
FMCSR 393.203
FRONT TOW HOOKS - FRAME MOUNTED
CLEAR FRAME RAILS FROM BACK OF CAB TO
FRONT REAR SUSPENSION BRACKET, BOTH
RAILS OUTBOARD
HUCK-SPIN ROUND COLLAR CHASSIS
FASTENERSEXCEPT REAR CLOSING
CROSSMEMBER

Fuel Tanks

80 GALLON/302 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)
EQUIFLO INBOARD FUEL SYSTEM
HIGH TEMPERATURE REINFORCED NYLON
FUEL LINE

Tires

GOODYEAR G289 WHA DURASEAL 315/80R22.5
20 PLY RADIAL FRONT TIRES
GOODYEAR G338 11R22.5 14 PLY RADIAL REAR
TIRES
TIRE QTY - PUSHER AXLE: 0
TIRE QTY - TAG AXLE: 0

Hubs

CONMET PRE-SET BEARING IRON FRONT HUBS
CONMET PRE-SET BEARING IRON REAR HUBS

Wheels

ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25
INSET 5-HAND STEEL DISC FRONT WHEELS
ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-
HAND HD STEEL DISC REAR WHEELS

Cab Exterior

114 INCH BBC FLAT ROOF ALUMINUM
CONVENTIONAL CAB
AIR CAB MOUNTS
NONREMOVABLE BUGSCREEN MOUNTED
BEHIND GRILLE
LH AND RH GRAB HANDLES
STATIONARY BLACK GRILLE
BLACK HOOD MOUNTED AIR INTAKE GRILLE
FIBERGLASS HOOD
SINGLE 14 INCH ROUND POLISHED AIR HORN
ROOF MOUNTED
SINGLE ELECTRIC HORN
SINGLE HORN SHIELD
DOOR LOCKS AND IGNITION SWITCH KEYED
THE SAME
REAR LICENSE PLATE MOUNT END OF FRAME
HALOGEN COMPOSITE HEADLAMPS WITH
BLACK BEZELS
LED AERODYNAMIC MARKER LIGHTS
DAYTIME RUNNING LIGHTS - LOW BEAM
ONLY
INTEGRAL STOP/TAIL/BACKUP LIGHTS WITH
36 INCHES ADDITIONAL WIRE AT CHASSIS
END OF FRAME
STANDARD FRONT TURN SIGNAL LAMPS

DUAL WEST COAST MOLDED-IN COLOR
HEATED MIRRORS
DOOR MOUNTED MIRRORS
102 INCH EQUIPMENT WIDTH
LH AND RH 8 INCH MOLDED-IN COLOR
CONVEX MIRRORS MOUNTED UNDER
PRIMARY MIRRORS
STANDARD SIDE/REAR REFLECTORS
RH AFTERTREATMENT SYSTEM CAB ACCESS
WITH STEEL SHIELDING
63X14 INCH TINTED REAR WINDOW
TINTED DOOR GLASS LH AND RH WITH
TINTED OPERATING WING WINDOWS
MANUAL DOOR WINDOW REGULATORS
TINTED WINDSHIELD
2 GALLON WINDSHIELD WASHER RESERVOIR
WITHOUT FLUID LEVEL INDICATOR, FRAME
MOUNTED

Cab Interior

OPAL GRAY VINYL INTERIOR
MOLDED PLASTIC DOOR PANEL WITHOUT
VINYL INSERT WITH ALUMINUM KICKPLATE
LOWER DOOR
MOLDED PLASTIC DOOR PANEL WITHOUT
VINYL INSERT WITH ALUMINUM KICKPLATE
LOWER DOOR
BLACK MATS WITH SINGLE INSULATION
DASH MOUNTED ASH TRAYS AND LIGHTER
FORWARD ROOF MOUNTED CONSOLE WITH
UPPER STORAGE COMPARTMENTS WITHOUT
NETTING
CENTER STORAGE CONSOLE MOUNTED ON
BACKWALL
(2) CUP HOLDERS LH AND RH DASH
GRAY/CHARCOAL WING DASH
SMART SWITCH EXPANSION MODULE
HEATER, DEFROSTER AND AIR CONDITIONER
STANDARD HVAC DUCTING WITH SNOW
SHIELD FOR FRESH AIR INTAKE
MAIN HVAC CONTROLS WITH
RECIRCULATION SWITCH
STANDARD HEATER PLUMBING WITH BALL
SHUTOFF VALVES AT SUPPLY LINES ONLY
DENSO HEAVY DUTY AIR CONDITIONER
COMPRESSOR
BINARY CONTROL, R-134A
STANDARD INSULATION
SOLID-STATE CIRCUIT PROTECTION AND
FUSES
12V NEGATIVE GROUND ELECTRICAL SYSTEM

DOME DOOR ACTIVATED LH AND RH, DUAL
READING LIGHTS, FORWARD CAB ROOF
CAB DOOR LATCHES WITH MANUAL DOOR
LOCKS
(1) 12 VOLT POWER SUPPLY IN DASH
BASIC HIGH BACK AIR SUSPENSION DRIVER
SEAT WITH MECHANICAL LUMBAR AND
INTEGRATED CUSHION EXTENSION
BASIC HIGH BACK NON SUSPENSION
PASSENGER SEAT
LH AND RH INTEGRAL DOOR PANEL
ARMRESTS
VINYL WITH VINYL INSERT DRIVER SEAT
VINYL WITH VINYL INSERT PASSENGER SEAT
3 POINT HIGH VISIBILITY ORANGE
RETRACTOR DRIVER AND PASSENGER SEAT
BELTS
ADJUSTABLE TILT AND TELESCOPING
STEERING COLUMN
4-SPOKE 18 INCH (450MM) STEERING
WHEEL
DRIVER AND PASSENGER INTERIOR SUN
VISORS

Instruments & Controls

GRAY DRIVER INSTRUMENT PANEL
GRAY CENTER INSTRUMENT PANEL
BLACK GAUGE BEZELS
LOW AIR PRESSURE LIGHT AND BUZZER
2 INCH PRIMARY AND SECONDARY AIR
PRESSURE GAUGES
INTAKE MOUNTED AIR RESTRICTION
INDICATOR WITHOUT GRADUATIONS
97 DB BACKUP ALARM
ELECTRONIC CRUISE CONTROL WITH
SWITCHES ON AUXILIARY GAUGE PANEL (B
DASH PANEL)
KEY OPERATED IGNITION SWITCH AND
INTEGRAL START POSITION; 4 POSITION
OFF/RUN/START/ACCESSORY
ODOMETER/TRIP/HOUR/DIAGNOSTIC/VOLTAGE
DISPLAY: 1X7 CHARACTER, 26 WARNING
LAMPS, DATA LINKED, ICU3
DIAGNOSTIC INTERFACE CONNECTOR, 9 PIN,
SAE J1939, LOCATED BELOW DASH
2 INCH ELECTRIC FUEL GAUGE
FUEL FILTER RESTRICTION INDICATOR
ELECTRICAL ENGINE COOLANT
TEMPERATURE GAUGE
2 INCH TRANSMISSION OIL TEMPERATURE
GAUGE
ENGINE AND TRIP HOUR METERS INTEGRAL
WITHIN DRIVER DISPLAY

ELECTRIC ENGINE OIL PRESSURE GAUGE
OVERHEAD INSTRUMENT PANEL
NO WRG-BDY MULTIPLEX EXPNSN UNIT
AM/FM/WB RADIO WITH FRONT AUXILIARY
INPUT
DASH MOUNTED RADIO
(2) RADIO SPEAKERS IN CAB
AM/FM ANTENNA MOUNTED ON FORWARD LH
ROOF
POWER AND GROUND STUDS IN DASH PLUS
ROOF CONSOLE WIRING
ROOF/OVERHEAD CONSOLE CB RADIO
PROVISION WITH FACE PLATE
ELECTRONIC MPH SPEEDOMETER WITH
SECONDARY KPH SCALE, WITHOUT
ODOMETER
ELECTRONIC 3000 RPM TACHOMETER
DETROIT VIRTUAL TECHNICIAN REMOTE
ENGINE DIAGNOSTICS
2 YEAR SERVICE CONTRACT INCLUDED WITH
VIRTUAL TECHNICIAN
IGNITION SWITCH CONTROLLED ENGINE STOP
FOUR ON/OFF ROCKER SWITCHES IN THE
DASH WITH INDICATOR LIGHTS AND WIRE
ROUTED TO CHASSIS AT BACK OF CAB, LABEL
OPT
PRE-FLIGHT, ALL OUTPUTS FLASH WITH
SMART SWITCH
NO ON/OFF LATCHING SMARTPLEX SWITCH
NO ON/OFF MOMENTARY SMARTPLEX SWITCH
NO ON/OFF/ON LATCHING SMARTPLEX
SWITCH
NO ON/OFF/ON MOMENTARY SMARTPLEX
SWITCH
NO PRE-DEFINED SMARTPLEX INDICATOR
LAMPS
NO UNDEFINED SMARTPLEX INDICATOR
LAMPS
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 AND DUAL CONNECTORS
AND SWITCH FOR CUSTOMER FURNISHED
SNOW PLOW LIGHTS, LOW BEAMS OFF WITH
HIGH BEAMS
TWO VALVE PARKING BRAKE SYSTEM WITH
WARNING INDICATOR

SELF CANCELING TURN SIGNAL SWITCH WITH
 DIMMER, WASHER/WIPER AND HAZARD IN
 HANDLE
 INTEGRAL ELECTRONIC TURN SIGNAL
 FLASHER WITH HAZARD LAMPS OVERRIDING
 STOP LAMPS

Design

PAINT: ONE SOLID COLOR

Color

CAB COLOR A: L0824EB YELLOW ELITE BC
 BLACK, HIGH SOLIDS POLYURETHANE
 CHASSIS PAINT
 VENDOR WHITE FRONT WHEELS/RIMS (PW,
 TKWHT21, W, TW)
 VENDOR WHITE REAR WHEELS/RIMS (PW,
 TKWHT21, W, TW)

Certification / Compliance

U.S. FMVSS CERTIFICATION

F R A M E S I D E S P A C E

VEHICLE SPECIFICATIONS SUMMARY - FRAME SIDE SPACE

Model..... 114SD
 Wheelbase (545)..... 5175MM (204 INCH) WHEELBASE
 Cab Size (829)..... 114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
 Sleeper (682) NO SLEEPER BOX/SLEEPER CAB
 Exhaust System (016)..... RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT
 SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE
 Frame Side Space LH (in) 42.948
 Frame Side Space RH (in) 92.63
 Battery Box (290) BATTERY BOX FRAME MOUNTED
 Left-Hand Fuel Tank (204)..... 80 GALLON/302 LITER ALUMINUM FUEL TANK - LH
 Left-Hand Auxiliary Fuel / Oil Tank(200) NO LH AUXILIARY FUEL TANK
 Right-Hand Fuel Tank (206) NO RH FUEL TANK
 Right-Hand Auxiliary Fuel / Oil Tank(201)..... NO RH AUXILIARY FUEL TANK
 Diesel Exhaust Fluid Tank(23U)..... 13 GALLON DIESEL EXHAUST FLUID TANK
 Rear Fenders(583) NO REAR QUARTER FENDERS
 Hydraulic Tank (203) NO HYDRAULIC OIL TANK

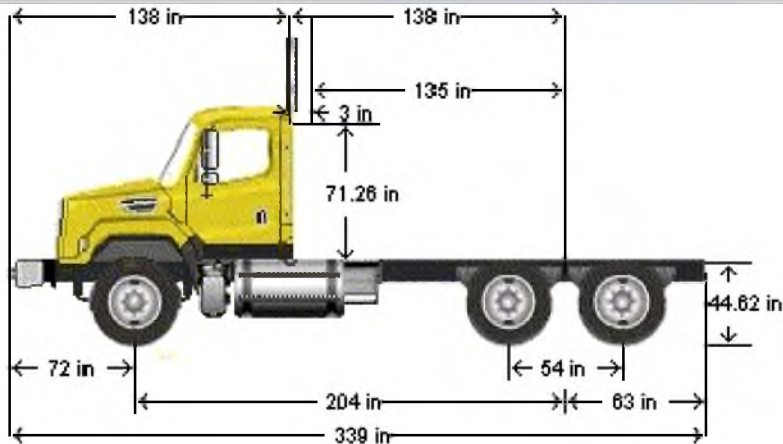
TABLE SUMMARY - FRAME SIDE SPACE

Dimensions (Left Side)	Inches
Max CP - Maximum value of all Cab Protrusions	3.0
Bumper to chassis zero dimension	28.9
First front axle to chassis zero dimension	43.3
Bumper to Centerline of Front Axle (BA)	72.2
Wheelbase (WB)	204.0
Frame Overhang (OH)	63.0
Overall Length (OAL)	339.2
Length of Front Tire Unladen Radius (UR)	21.6
Length of Rear Tire Unladen Radius (UR)	21.0
Length Rear Axle Spacing factor	54.0
Pusher Axle Spacing	0.0
Length of Pusher Tire Unladen Radius (UR)	0.0
Frame Space Left Side	42.9
Side Step Left Side	0.0
Exhaust Left Side	0.0
Urea Tank Left Side	13.6
Battery Box Left Side	15.8
Fuel Tank Left Side	42.5
Hydraulic Tank Left Side	0.0
Aux1 Tank Left Side	0.0
Aux2 Tank Left Side	0.0
StoreBox1 Tank Left Side	0.0
StoreBox2 Tank Left Side	0.0
Frame Step Left Side	0.0
Fender Left Side	0.0
Other1 Left Side	0.0
Other2 Left Side	0.0
Adj Left Side	0.0

Dimensions (Right Side)	Inches
Max CP - Maximum value of all Cab Protrusions	3.0
Bumper to chassis zero dimension	28.9
First front axle to chassis zero dimension	43.3
Bumper to Centerline of Front Axle (BA)	72.2
Wheelbase (WB)	204.0
Frame Overhang (OH)	63.0
Overall Length (OAL)	339.2
Length of Front Tire Unladen Radius (UR)	21.6
Length of Rear Tire Unladen Radius (UR)	21.0
Length Rear Axle Spacing factor	54.0
Pusher Axle Spacing	0.0
Length of Pusher Tire Unladen Radius (UR)	0.0
Frame Space Right Side	92.6
Side Step Right Side	0.0
Exhaust Right Side	32.2
Urea Tank Right Side	0.0
Battery Box Right Side	0.0
Fuel Tank Right Side	0.0
Hydraulic Tank Right Side	0.0
Aux1 Tank Right Side	0.0
Aux2 Tank Right Side	0.0
StoreBox1 Tank Right Side	0.0
StoreBox2 Tank Right Side	0.0
Frame Step Right Side	0.0
Fender Right Side	0.0
Other1 Right Side	0.0
Other2 Right Side	0.0
Adj Right Side	0.0

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

D I M E N S I O N S



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model..... 114SD
 Wheelbase (545)..... 5175MM (204 INCH) WHEELBASE
 Rear Frame Overhang (552)..... 1600MM (63 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).....114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
 Sleeper (682)..... NO SLEEPER BOX/SLEEPER CAB
 Exhaust System (016).....RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE

TABLE SUMMARY - DIMENSIONS

Dimensions	Inches
Bumper to Back of Cab (BBC)	137.8
Bumper to Centerline of Front Axle (BA)	72.2
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	138.4
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	135.4
Back of Cab Protrusions (Exhaust/Intake) (CP)	1.6
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	201.4
Cab Height (CH)	71.3
Wheelbase (WB)	204.0
Frame Overhang (OH)	63.0
Overall Length (OAL)	339.2
Rear Axle Spacing	54.0
Unladen Frame Height at Centerline of Rear Axle	44.8

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering

F R A M E R B M

VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM

Wheelbase (545) 5175MM (204 INCH) WHEELBASE
 Frame Rails (546) 1/2X3.64X11-7/8 INCH STEEL FRAME (12.7MMX301.6MM/0.5X11.88 INCH)
 120KSI(546)
 Yield Strength (psi)..... 120000
 Section Modulus (per rail) (cu in)..... 26.7
 RBM (per rail) (lbf-in)..... 3204000
 Inner Frame Reinforcement (547)..... PARTIAL INNER FRAME REINFORCEMENT AT FRONT
 SUSPENSION
 Outer Frame Reinforcement (548)..... NO OUTER FRAME REINFORCEMENT

TABLE SUMMARY - FRAME RBM

Item	Description / Value
Wheelbase	5175MM (204 INCH) WHEELBASE
Frame	1/2X3.64X11-7/8 INCH STEEL FRAME (12.7MMX301.6MM/0.5X11.88 INCH) 120KSI
Inner Frame Reinforcement	PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION
Outer Frame Reinforcement	NO OUTER FRAME REINFORCEMENT
Yield Strength (psi)	120000
Section Modulus - per rail (cu. in.)	26.70
Frame RBM - per rail (lbf-in)	3204000

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

Taney County Road & Bridge Specifications on a Dump Body

Dura Class HPT-316 or Equivalent

MINIMUM SPECIFICATIONS HEAVY DUTY MULTI-AXLE MUNICIPAL DUMP BODY & HOIST PACKAGE DuraClass HPT-316

GENERAL:

The dump body shall be a heavy-duty contractor body to be used on a multi-axle chassis. The hoist shall be a single cylinder front mount telescopic type hoist. The complete body, hoist, and cylinder package must be supplied by a single manufacturer and be a proven standard production model. Literature must be supplied for the body and hoist being submitted for approval. A DuraClass HPT-316 or approved equal are recommended.

DIMENSIONS:

COMPLY: YES/NO

Body Length	16'	_____
Body Width	84"	_____
Body Capacity	13/14 Cubic Yards	_____
Side Height	38"	_____
End Height	48"	_____

MATERIAL:

Sides	3/16" AR400	_____
Side braces	10 Gauge High Tensile	_____
Tailgate	3/16" AR400	_____
Front Head	3/16" AR400	_____
Floor	1/4" AR400	_____
Understructure	Crossmemberless Two deep flared longitudinals fabricated of 3/16" hi-tensile steel and are 10" fully boxed	_____
Rear Apron	8 Gauge High Tensile	_____
Rear Corner Post	10 Gauge High Tensile	_____

RFB# 201303-217 Tandem Axle Dump Trucks
Taney County, Missouri

SIDES:

Side panel constructed of 10 ga. high tensile steel, all exposed bends to be 1" radius

Top rail to be box section 4-5/8" wide x 8-3/8" tall
Centerbend to fold back at 20 degrees at top and bottom to bend back at 35 degrees from horizontal. No seam visible to outside or bottom of top rail

Minimum of three, 4-1/2" wide vertical side braces
At the face and flared to 9" wide at the body, 3-1/4" deep slanted forward. All exposed bends to be 1-1/2" radius. C/C not to exceed 35"

Front corner post to be 3-7/8" deep and shaped to match side posts

5-1/2" inch wide 35 degree sloped rub rails
Minimum 10" wide full depth rear corner post

Minimum 5-1/2" deep rear corner post to house needed lighting

8" Board pockets

100% fully solid welded construction

TAILGATE:

Tailgate panel constructed of a one piece sheet of 3/16" AR400 steel for added strength

All horizontal bracing, including top rail, to be dirt shedding using large radius die

3 panel tailgate design

Minimum 1" flame cut offset upper tailgate hinge

Minimum 1-1/2" upper tailgate pin

Minimum 1-1/4" lower tailgate pin incorporated in lower vertical tailgate brace for added strength

Minimum 3/8" diameter proof coil spreader chains

5/8" lower latch assembly

3/4" plate flame cut lower pin cradle

Complete tailgate latching assembly reinforced with a 1/4" backing plate for added strength

100% fully solid welded construction

FRONT HEAD:

Front head panel constructed of a one piece sheet of 3/16" AR400 steel

Three bend top rail (minimum 3" wide, 2" deep with a 7/8" return flange)

To be a minimum 8" higher than the side height

100% fully solid welded construction

Dog-house to be no deeper than 11"

Spreader Mounting:

Four permanent mount, (2) each side of bed, 4" ratchet straps for spreader hold downs.

Hydraulic Couplers:

Hydraulic quick couplers and hoses to be at left rear of dump body, not at rear of dump body. Hydraulic lines running outside rails shall be protected by accessible steel plate. All hydraulic hose ends should have protective covers.

Plow:

Frame hitch needs to match county existing plows, Flink PF91QL2 hitch is required or equivalent.

This specification shall describe a bumper to frame hitch with a tilt feature that allows the snowplow to remain coupled to the push frame while servicing vehicle. It incorporates the advantage of quick installation with the strength and reliability needed for performance durability. Front bumper manufactured using 10" channel and will be incorporated into the plows front frame hitch. Snowplow lights shall be furnished and installed on trucks hood/fender using manufacture wiring from factory.

Taney County Road & Bridge Specifications on Hydraulic System, Spreader and Plow Control

Hydraulic Pump:

- The hydraulic pump will be crankshaft driven using a 1280/1310-driveline assembly.
- The piston pump (load sensing type) must be capable of 48 GPM and 3000 PSI at 2500 RPM.
- Pump must have side to avoid multiple 90-degree bends in suction line (rear ports are unacceptable).
- The case drain must be positioned as high as possible and directed back to the reservoir without passing through the return line filter.
- The pump must have internal bleed down compensator option, a 1 1/4" keyed shaft drilled and tapped, a 1" split flange pressure port and a 2" split flange suction port.
- A 1" oring high pressure ball valve shall be installed on pressure port of pump.
- Sauer-Danfoss model JRL075 no exceptions.

Pump Drive:

- The driveline must be 1280/1310 series solid shaft style.
- The driveline shall come with all crosses, pump end yoke and flange for engine.
- The pump shall be driven off the engine crankshaft.
- The pump shall get a companion flange that un-bolt from driveshaft for easy belt replacement.
- Certified Power SG01010016 no exceptions.

Hydraulic Return Filter:

- Filter shall be top tank mounted type 10 microns with a by-pass and replaceable cartridge element.
- Filter shall be capable of 80 GPM flow capacity.
- Filter shall have one 1 1/4" SAE port with the ability to be machined for another.
- A bypass condition gauge shall be provided.
- Certified Power model SG03020010 no exceptions.
-

RFB# 201303-217 Tandem Axle Dump Trucks
Taney County, Missouri

Snow Plow Cushion Valve:

- A double relief cushion valve must be installed for the plow angle.
- The valve shall be set at 2000 PSI and have #8 SAE o-ring ports.
- The valve shall be constructed of a high-tensile cast iron body with ball and spring style relief that has hardened seat.
- The valve shall be plumbed at the front of the truck for snowplow angle.
- Certified Power model DRV5HH no exceptions.

Cable Controls:

- *Sections 1-3 of stack valve shall be actuated by the remote valve cable control system.*
- Cables shall have Stainless Steel cable core capable of 90 lbs. Push-pull.
- Controls shall be mounted beside driver easily accessible.
- Single axis control lever for dump body up/down with dead man push button.
- Dual axis control lever "+" pattern for plow lift and angle.
- Control levers to be labeled with decals for operation.
- Controls to be mounted in factory style stand.

Hydraulic Reservoir:

- Reservoir shall be 30-gallon minimum with breather cap, magnetic drain plug and suction screen.
- Fill neck must be screened and a sight/temperature gauge mounted on the reservoir so easily visible for inspection.
- Symmetrical side ports to allow mounting on either side of truck frame.
- Suction screen to be 2" NPT with built in bypass.
- Suction port shall have a 2" full flow ball valve installed for ease of pump service.
- Bottom suction is not acceptable.
- Reservoir must have provision for the mounting of a tank mounted return line filter.
- Certified Power MTRA2303000007 no exceptions

Hydraulic Stack Valve:

- The valve shall be of a mobile stackable design load sensing type.
- The valve shall be capable of a nominal 35 GPM with published flow curves to 40 GPM.
- The valve must be pressure and flow compensated.
- Inlet and outlet ports to be 1" o-ring, all working ports shall be 3/4" and 5/8" o-ring.
- Valve to be arranged as follows:
- Inlet cap with pressure, tank, load sense and drain port.
- Single acting cylinder spool for hoist, spring return to neutral cable shifted pressure compensated with 32 GPM main spool.
- Single acting cylinder spool for plow lift, spring return to neutral for raise and detent for down, cable shifted pressure compensated with 10.6 GPM main spool.
- Double acting cylinder spool for plow angle, spring return to neutral cable shifted pressure compensated with 10.6 GPM main spool.
- Single acting motor spool for broom on/off, 12VDC operated with spring to neutral, pressure compensated 0-26 GPM with manual override for future use
- Out let cover top ported with Pressure carry over, tank port and load sense carry over for in cab spreader control with bleed orifice. Pressure and tank port to be #16 o-ring, load sense port to be #6 o-ring.
- Certified Power PVG32 no exceptions

RFB# 201303-217 Tandem Axle Dump Trucks
Taney County, Missouri

Spreader Valve:

- Spreader control valve must be dual flow pressure compensated type.
- Closed inlet design valve specifically designed for load sensing.
- The use of line mounted auxiliary valves or conversion of valves designed for any other purpose is not acceptable.
- O-ring style (leak free) ports.
- Integral shuttle sensing true load pressure.
- Manual on/off control, capable of de-stroking a variable displacement piston pump.
- Dual flow design shall be set-up as one knob 0-7 gpm and the other from 0-16 gpm.
- Certified Power model SG03020029 no exceptions

Pre-Wet Control:

- Spreader control must be able to run the existing 12VDC electric pre-wet systems already installed on the counties spreaders.
- If there is no float switch for low level in the tanks, it will need to be added.
- Control system shall be able to connect to existing wiring for pre-wet systems.
- Control shall be able to control pre-wet in open loop mode and get set in gallons per ton.

Hydraulic Hoses:

- All hoses shall be properly rated for pressure of hydraulic system.
- All hose ends connecting to valve assembly shall be 90-degree female JIC swivel.
- Suction Hose shall be 2" ID SAE 100R4 style, connecting the pump and reservoir with a king nipples, with both ends being double clamped with T-bolt style stainless steel super clamps.
- Pressure hose shall be 1" ID 2000 PSI rated with female JIC swivels at both ends.
- Return line shall be 1 1/4" ID SAE 100R4 style with female JIC swivels at both ends.
- Hoist lines shall be 1" ID 2250 PSI rated with female JIC swivels at both ends.
- Plow lines 1/2" ID 2250 PSI rated, ran to front of truck with female JIC swivels at both ends.
- Auger line shall be 3/4" ID 2250 PSI rated and have female JIC swivels at both ends.
- Spinner line shall be 1/2" ID 2250 PSI rated and have female JIC swivels at both ends.
- Spreader return line shall be 1" ID SAE 100R4 style with female JIC swivels at both ends.
- Pump case drain shall be 3/4" ID minimum 2250 PSI rated and have female JIC swivels at both ends.
- Load sense line shall be 3/8" ID 2250 PSI rated and have female JIC swivels at both ends.

Options: (Optional Pricing Only for the Freedom 2 Electronic Spreader Control)

- Provide cost adder for the use of Freedom 2 electronic spreader control in lieu of manual controlled dual knob spreader valve.
- The electronic spreader control option will include adding valve/reservoir combination instead of standard frame mounted 30 gallon reservoir with a tank mounted filter and the hydraulic stack valve being mounted on the frame that makes it accessible. Hydraulic valve will be modified to accommodate spreader manifold for Freedom 2 spreader control.

"TPE" Wiring Specification:

- *Wiring and harness system should meet ISO rating IP68 and NEMA 6.*
- *The connectors should be zinc die cast E-coated, similar to a MIL spec connector.*
- *Each should have three sealing points- the lock ring itself, a raised portion of the molded plastic around each pin, and a viton O-ring that seals the whole connector.*
- *The cable jacket should be TPE- thermoplastic elastomer, and molded to the connectors.*
- *Connectors and harness should be rated and tested for a temperature range from - 30C to + 70C.*
- *Connectors should be tested to be water tight when submerged in 6' of water for 24 hours, in 275' of water for 1 hour, and when subjected to a 1000-psi pressure wash.*
- *The connectors should be designed to have NO corrosion after 500 hours in a 35C salt spray.*
- *Cabling should be rated excellent in low temperature flexibility and in its resistance to oxidation, heat, oil, weather, sun, ozone, abrasion, electrical priorities, flame, water, acid, alkali, gasoline, benzol, toluol, degreaser solvents, alcohol, and weld slag.*
- *All cabling for the hydraulic system and pre-wet system must be this style.*
- *Certified Power TPE Yellow Jacket cables no exceptions.*

RFB# 201303-217 Tandem Axle Dump Trucks
Taney County, Missouri

Hydraulic Stack Valve:

- The valve shall be of a mobile stackable design load sensing type.
- The valve shall be all cast iron design and all sections must be of the same valve series.
- The valve shall be capable of a nominal 35 GPM with published flow curves to 40 GPM.
- The valve must be pressure and flow compensated.
- Inlet and outlet ports to be 1" o-ring, all working ports shall be 5/8" o-ring minimum.
- Valve to be arranged as follows:
- Inlet cap with top ported pressure and tank, load sense and drain ports.
- Single acting cylinder spool for hoist 0-47 GPM, proportional 12VDC operated, with spring return to neutral. Section shall have manual handle overrides with stroke limiters. (option double acting hoist with 500 PSI down side relief.)
- Single acting cylinder spool for plow lift, proportional 12VDC operated with spring return to neutral. Pressure compensated 0-15 GPM main spool. Section shall have manual handle overrides and stroke limiters. Plow float shall be incorporated and controlled by console.
- Double acting cylinder spool for plow lift, proportional 12VDC operated with spring return to neutral. Pressure compensated 0-15 GPM main spool. Section shall have manual handle overrides and stroke limiters.
- Single acting motor spool for broom on/off, 12VDC operated with spring to neutral, pressure compensated 0-26 GPM with manual override for future use.
- Single acting 0-15 GPM spool for feeder, proportional 12VDC spring to center with manual override.
- Single acting 0-7 GPM spool for spinner, proportional 12VDC spring to center with manual override.
- Spreader sections shall be part of a manifold assembly that has a pressure reducing valve and solenoid drain and has the ability to have a cartridges added for pre-wet and anti-ice applications.
- Aluminum manifold cartridge valve design is not acceptable.
- Certified Power PVG100/32 valve no exceptions
-

Hydraulic Reservoir:

- Reservoir shall be 30-gallon minimum capacity with the breather cap mounted to an inspection lid. Inspection lid shall also provide for an in tank mounted return line filter.
- Breather cap fill neck must be screened and mounted on a riser.
- Reservoir shall be complete with a sight temperature gauge and a magnetic drain plug. Suction port will allow for installation of a 2" NPT 50GPM suction screen. Suction screen will have a 3 to 5 PSI by-pass spring.
- A 2" full flow ball valve shall be installed at reservoir in suction port.
- Reservoir must be constructed of 10-gauge steel.
- As an integral part of the reservoir, there shall be an area for mounting of the hydraulic stack valve. Reservoir must be of template style for bulkhead "through" mounting of the valve and be completely free from internal tubing or hoses from the work ports and inlet of the valve.
- Valve must be removable as a unit with template through the top of the reservoir for service and accessibility.
- All Electrical connections must be made via IP68 rated connectors on the front (cab) side of the reservoir.
- The hydraulic fittings must come out the bottom of the enclosure and must be male JIC bulkheads.
- Access to the enclosure must be by a removable top lid that is held in place with 2 rubber tie downs.
- The reservoir filter and fill cap must be accessible without removing a lid or cover.
- Hydraulic reservoir must be mounted on the driver's side of the vehicle.
- Certified Power model MTCA2301 no exception.

Freedom 2.1 Spreader Control:

- Control to have 3 PWM output channels
- 1 channel shall be ground speed oriented conveyor/spreader, 1 channel for spinner, and one channel for liquid output either pre-wet or anti-ice if desired.
- Control to have a simple operator interface consisting of 3 buttons, two knobs and an interactive touch screen.
- Knobs to be rotary encoders with no maximum or minimum limit position.
- Programming of unit shall not require the use of an ancillary device
- Touch screen shall be used for calibration of the unit.
- There shall be a USB port on the side of the unit for data download if option is selected
- USB shall also function as an upload port to allow field upgrade of the software or capabilities of the system
- Unit shall be available in 3 versions, and software shall be available for purchase to allow unit to be reconfigured to any version.
- Control shall come with F.I.R.S.T., a interactive calibration setup tutorial.
- Unit delivered shall be Freedom 2.1 as manufactured by Certified Power
- To prevent glare at night, there shall be a "night mode" for the touch screen
- The unit shall be supplied with 8MB of RAM and 4MB of flash memory
- The front panel shall be backlit for night viewing
- There shall be a field replaceable fuse to protect the system. Fuse shall be easily accessible.
- Help screens for troubleshooting and calibration shall be embedded in the on board software.
- The system shall support a remote blast and remote pause functions.
- Control shall be closed loop for auger and liquid if liquid is used, open loop only systems will not be accepted.
- PWM circuits shall be current regulated to reduce hysteresis
- There shall be an input to sense a stall of the spreader
- A float input circuit shall be provided to turn off liquid system at low level
- Storm totals shall be available either on screen or via USB download
- Unit dimensions shall be approximately 7.8L, 4H, 3.8 D
- Control systems communicating with Power line Technology will not be accepted.
- Certified Power Freedom 2.1 no exceptions.

Pricing, or costs, MUST be entered as a GRAND TOTAL on the line provided on the Bid Page.

RFB# 201303-217 Tandem Axle Dump Trucks
Taney County, Missouri

BID PAGE

Bidder must complete the following section in its entirety, and sign and date where indicated on page #1. This agreement shall take effect upon the approval by the Taney County Commission.

- A. ACCEPTANCE OF BID BY COUNTY: The County shall have a minimum of 90 calendar days from the date of the opening to accept bidder's offer.
- B. County standard payment terms are Net 30 after receipt of invoice.
State any discounts offered: _____
- C. Response time/delivery: _____
(After receipt of order)
- D. Submittals - The following must be submitted with bid:
 - 1. References and experience
 - 2. Key personnel
 - 3. Warranty
 - 4. Descriptive literature
- E. Total Price: \$ _____ (Each)

NO BID RESPONSE FORM

NOTE: Complete and return this section only if you do not want to submit a Bid. If you do not wish to respond to this RFB, please fill this form out and return it to the Purchasing Department by mail or fax.

Thank you...

RFB# 201303-217 Complete Tandem Axle Dump Trucks (2)

Business Name:	
Address:	
Telephone:	
Contact Person:	
Date:	
Reason(s) for not Bidding:	

See following pages for Terms & Conditions and other helpful information which apply appropriately as needed specifically to items or services required within this RFB.

RFB# 201303-217 Tandem Axle Dump Trucks
Taney County, Missouri



STANDARD TERMS AND CONDITIONS

1. Responses shall include all charges for packing, delivery, installation, etc., (unless otherwise specified) to the Taney County Department identified in this Request for Bid.
2. The Taney County Commission has the right to accept or reject any part or parts of all Bids, to waive technicalities, and to accept the offer the County Commission considers the most advantageous to the County. Taney County reserves the right to award this Bid on an item-by-item basis, or an "all or none" basis, whichever is in the best interest of the County.
3. Bidders must use the Bid forms provided for the purpose of submitting Bids, must return the Bid and Bid sheets comprised in this Bid, give the unit price, extended totals, and **sign the Bid**.
4. When products or materials of any particular producer or manufacturer are mentioned in our specifications, such products or materials are intended to be descriptive of type or quality and not restricted to those mentioned.
5. **Do not include Federal Excise Tax or Sales and Use Taxes in Bid process, as law exempts the County from them.**
6. The delivery date shall be stated in definite terms, as it will be taken into consideration in awarding the Bid.
7. The County Commission reserves the right to cancel all or any part of orders if delivery is not made or work is not started as guaranteed. In case of delay, the Contractor must notify the Purchasing Department.
8. In case of default by the Contractor, the County of Taney will procure the articles or services from other sources and hold the Bidder responsible for any excess cost occasioned thereby.
9. Failure to deliver as guaranteed may disqualify Bidder from future Bidding.
10. Prices must be as stated in units of quantity specified, and must be firm.
11. No Bid transmitted by fax machine or e-mail will be accepted.
12. The County of Taney, Missouri expressly denies responsibility for, or ownership of any item purchased until same is delivered to the County and is **accepted** by the County.
13. The County reserves the right to award to one or multiple respondents. The County also reserves the right to not award any item or group of items if the services can be obtained from a state or other governmental entities contract under more favorable terms. (Cooperative Purchase.)
14. The County, from time to time, uses federal grant funds for the procurement of goods and services. Accordingly, the provider of goods and/or services shall comply with federal laws, rules and regulations applicable to the funds used by the County for said procurement, and contract clauses required by the federal government in such circumstances are incorporated herein by reference. These clauses can generally be found in the Federal Transit Administration's Best Practices Procurement Manual – Appendix A. Any questions regarding the applicability of federal clauses to a particular Bid should be directed to the Purchasing Department prior to Bid opening.
15. In the event of a discrepancy between a unit price and an extended line item price, the unit price shall govern.
16. Should an audit of Contractors invoices – during the term of the Agreement, and any renewals thereof, indicate that Taney County has remitted payment on invoices that constitute an over-charging to the County above the pricing terms agreed to herein, the Contractor shall issue a refund check to the County for any over-charges within 30 days of being notified of the same.

MISCELLANEOUS BIDDING PROCESS INFORMATION

The Purchasing Department is responsible for the Bid opening at the time and place noted in the request. If a Vendor is interested in a copy of the Bid tabulation they must include a direct email address, not website, in order to receive results. Obviously sealed Bids cannot be emailed so they must either be delivered by hand, courier, or USPS. (Please note USPS concerns on page #2, item #2.)

A formal invitation for Bid is utilized when the total purchase exceeds \$4,500. The County also uses this method when the life of a term and supply contract is valued more than \$4,500. The Bid Package will contain well-defined standard technical specifications for the nature of the service or product requested. A formal closing date and time is specified. The Bidder must comply with this requirement in order to be considered for award. All Formal Invitations for Bid are handled by the Taney County Purchasing Department. Technical specifications are the responsibility of the specific requesting department.

Bid Response Tips:

1. Read ALL Bid documents immediately upon receipt. Note any special dates or requirements.
2. Contact the Taney County Purchasing Department with any questions relating to the Bid seven days prior to the Bid opening. (Email ONLY to: rone@co.taney.mo.us.)
3. Use ink to fill in all blanks clearly. (If I can't read your handwriting your Bid **will** be rejected.)
4. Remember to supply the required number of copies, marking copies vs. original.
5. Turn your Bid in as soon as possible. The deadline dates and times are strictly adhered to. The County cannot accept any late Bids. In the event of only one Bid response the County may reject the entire Bid and re-let it hoping for more participation.
6. Attend pre-Bid conferences, if any. (Most are Mandatory.)
7. Pay close attention to the terms *must, shall, should or may*. **READ EVERYTHING.**
8. Include an updated **W-9** form completed with your company information and signature.
9. Include, if applicable, a current level of **prevailing wage** considerations within your Bid.
10. Remember to sign the Bid sheet as this is mandatory.

Please Note...

There are several steps, requirements and legalities which must be followed when engaging in an effort to respond to any certain Bid. Here I hope I have served to assist any/all participants in making sure everyone has a fair and pleasant experience with my County. Please keep in mind that it is entirely possible that this sheet, along with all of the other information as detailed within this Bid, may NOT include everything to cover every possible situation. Should that occur please let me know.

Thank you for your interest in Taney County Missouri.

Sincerely,



A handwritten signature in blue ink that reads "Ron Erickson".

RON ERICKSON
Director of Purchasing
Taney County Missouri
rone@co.taney.mo.us
www.taneycounty.org
417-294-7863 (Cell)



Taney County, Missouri
COMPLETE TANDEM AXLE DUMP TRUCKS (2)
RFB #201303-217
Addendum #1

This addendum is issued in accordance with the Introduction and General Information in the Request for Bid and is hereby incorporated into and made a part of the Request for Bid Documents. Offerors are reminded that receipt of this addendum **shall** be acknowledged and submitted with Offeror's *Response Page*.

Specifications for the above noted Request for Bid and the work covered thereby are herein modified as follows, and except as set forth herein, otherwise remain unchanged and in full force and effect:

This office has received a question which has resulted in the need to release the following information as a request to be included within any full response. Keeping in full compliance with the instructions stated within this RFB PLEASE include a response to the following which is to be considered as required information:

Please provide optional costs / pricing for EXTENDED WARRANTY on the Engine as well as the Base Vehicle.

Thank you.

By,

Ron Erickson, Director of Purchasing
 132 David Street / P.O. Box 1630 Forsyth, Mo. 65653
 Phone: 417-546-7281 Fax: 417-546-3931
 E-mail: rone@co.taney.mo.us

OFFEROR has examined copy of Addendum #1 to **Complete Tandem Axle Dump Trucks (2) RFB #201303-217**, receipt of which is hereby acknowledged:

Company Name: _____
 Address: _____

Phone Number: _____ Fax Number: _____
 E-mail address: _____

Authorized Representative Signature: _____ Date: _____

Authorized Representative Printed Name: _____