

# Purchase Order

**DO NOT INVOICE TO THIS ADDRESS**  
**City and County of Denver**

Purchasing Division  
 201 West Colfax Avenue Dept.304  
 Denver, CO 80202  
 United States  
 Phone: 720/913-8100 Fax: 720/913-8101



<b>Purchase Order</b> PWOPS-0000012865	<b>Date</b> 04/06/2017	<b>Revision</b>	<b>Page:</b> 1 of 6
<b>Payment Terms</b> Net30	<b>Freight Terms</b> DESTINATION	<b>Ship Via</b> Common	
<b>Buyer</b> Romero, Michael P. - Purchasin	<b>Phone</b> 720 913 8122	<b>Origin</b> REG	

**Vendor:** 0000000776 Phone: 303/288-6649 Fax: 303/288-5577

TRANS-WEST TRUCK INC  
 5100 EAST 78TH AVENUE  
 COMMERCE CITY CO 80022  
 United States

**Ship To:**  
 DPW Fleet Maintenance  
 5440 Roslyn  
 Building C, Door C-6  
 Denver CO 80216  
 United States

**Bill To:**  
 Accounts Payable  
 201 West Colfax Ave Dept 908  
 invoices@denvergov.org  
 720/913-8811  
 Denver CO 80202  
 United States

**Tax Exempt? Y** **Tax Exempt ID:** 98-02890-000

Line-Sch	Vendor Part#/Description	Mfg ID	Quantity	UOM	PO Price	Extended Amt	Due Date
1 - 1	17-101, 102: 2017 Freightliner 114SD Cab and Chassis - Quad Axle		2.00	EA	\$124,563.00	\$249,126.00	08/11/2017
	See requirements per City and County of Denver Specification CCD Bid Award #0750A 2017 City Ref. 101,102 Cab and Chassis: \$117,336 No Block Heater: < - \$281> 13 Gallon DEF Tank Upgrade: \$92.00 Single Frame Rail Option: \$496.00 No Bumper Guides: <-260> 6 Dash Switches Instead of 10 (\$28 Each): Net Reduction < - \$112> Towing Package: \$1,185 PPI ADJUSTMENT: +\$11,294 Cab and Chassis: \$129,750  Quad Axle Upgrades/ Adjustments Engine Upgrade to 500HP/1850 Ft lb Torque: +\$2,366 Convert Transmission to Eaton FO-18E318B-MXP Ultrashift: -\$3,589 Lengthen Frame: \$667.00 Hydraulic Conversion to Front PTO: \$464  2017 Voluntary Price Reduction: <-6258> 2017-5 Year Virtual Technician Subscription: \$288 2017-Zonar Tablet (installed): 875 Complete Cab and Chassis: \$124,563  Req ID: 0000057895						
2 - 1	17-100, 104-108: 2017 Freightliner 114SD Cab and Chassis-Tandem Axle		6.00	EA	\$124,655.00	\$747,930.00	08/11/2017

# Purchase Order

**DO NOT INVOICE TO THIS ADDRESS**  
**City and County of Denver**

Purchasing Division  
 201 West Colfax Avenue Dept.304  
 Denver, CO 80202  
 United States  
 Phone: 720/913-8100 Fax: 720/913-8101



<b>Purchase Order</b> PWOPS-0000012865	<b>Date</b> 04/06/2017	<b>Revision</b>	<b>Page:</b> 2 of 6
<b>Payment Terms</b> Net30	<b>Freight Terms</b> DESTINATION	<b>Ship Via</b> Common	
<b>Buyer</b> Romero, Michael P. - Purchasin	<b>Phone</b> 720 913 8122	<b>Origin</b> REG	

**Vendor:** 0000000776 Phone: 303/288-6649 Fax: 303/288-5577

TRANS-WEST TRUCK INC  
 5100 EAST 78TH AVENUE  
 COMMERCE CITY CO 80022  
 United States

**Ship To:**  
 DPW Fleet Maintenance  
 5440 Roslyn  
 Building C, Door C-6  
 Denver CO 80216  
 United States

**Bill To:**  
 Accounts Payable  
 201 West Colfax Ave Dept 908  
 invoices@denvergov.org  
 720/913-8811  
 Denver CO 80202  
 United States

**Tax Exempt? Y** **Tax Exempt ID:** 98-02890-000

Line-Sch	Vendor Part#/Description	Mfg ID	Quantity	UOM	PO Price	Extended Amt	Due Date
	See requirements per City and County of Denver Specification						
	CCD Bid Award #0750A						
	2017 City Ref. 100,104-108						
	Cab and Chassis: \$117,336						
	No Block Heater: < - \$281>						
	13 Gallon DEF Tank Upgrade: \$92.00						
	Single Frame Rail Option: \$496.00						
	No Bumper Guides: <-260>						
	6 Dash Switches Instead of 10 (\$28 Each): Net Reduction < - \$112>						
	PPI ADJUSTMENT: +\$11,294						
	Cab and Chassis: \$128,565						
	2017 Voluntary Price Reduction: <-5073>						
	2017-5 Year Virtual Technician Subscription: \$288						
	2017-Zonar Tablet (installed): \$875						
	Complete Cab and Chassis: \$124,655						
Req ID: 0000057897							

# Purchase Order

**DO NOT INVOICE TO THIS ADDRESS**  
**City and County of Denver**

Purchasing Division  
 201 West Colfax Avenue Dept.304  
 Denver, CO 80202  
 United States  
 Phone: 720/913-8100 Fax: 720/913-8101



<b>Purchase Order</b> PWOPS-0000012865	<b>Date</b> 04/06/2017	<b>Revision</b>	<b>Page:</b> 3 of 6
<b>Payment Terms</b> Net30	<b>Freight Terms</b> DESTINATION	<b>Ship Via</b> Common	
<b>Buyer</b> Romero, Michael P. - Purchasin	<b>Phone</b> 720 913 8122	<b>Origin</b> REG	

**Vendor:** 0000000776 Phone: 303/288-6649 Fax: 303/288-5577

TRANS-WEST TRUCK INC  
 5100 EAST 78TH AVENUE  
 COMMERCE CITY CO 80022  
 United States

**Ship To:**  
 DPW Fleet Maintenance  
 5440 Roslyn  
 Building C, Door C-6  
 Denver CO 80216  
 United States

**Bill To:**  
 Accounts Payable  
 201 West Colfax Ave Dept 908  
 invoices@denvergov.org  
 720/913-8811  
 Denver CO 80202  
 United States

**Tax Exempt? Y** **Tax Exempt ID:** 98-02890-000

Line-Sch	Vendor Part#/Description	Mfg ID	Quantity	UOM	PO Price	Extended Amt	Due Date
----------	--------------------------	--------	----------	-----	----------	--------------	----------

Vendor contact notes:

Will Schafer  
 Government/Fleet Manager  
 303-301-7509 Direct  
 whschafer@transwest.com

Coordinate build with: Gary Bales 720-337-1197  
 Delivery: Monday through Friday between 8:00am and 1:00pm.  
 Location:  
 CITY AND COUNTY OF DENVER  
 Fleet Management  
 5440 Roslyn St. Building C  
 Denver, CO 80216  
 Contact person to coordinate delivery: Call (720) 865-3900  
 New Equipment Check-in Form Required

Title to Read:  
 City and County of Denver  
 201 West Colfax Avenue Dept 304  
 Denver, CO 80202

Purchase made pursuant to Bidder's Proposal No: 0750A\_2012  
 MPO Price Structure: 0750A0113  
 Upgrades/ Adjustments: Per DRMC 20-64(A1)  
 Purchase Made Under the Provisions of Section 20-64(A)(4) of the Revised  
 Municipal Code. Standardization  
 Planned Fleet Replacement Fund 842000 11804 5053400  
 This Purchase Order is contingent on Council action in accordance with 3.2.6. (e)  
 of the City Charter and is void without such action.

**Total PO Amount**

**\$997,056.00**

Any Discrepancies must be reconciled with the Purchasing Division Buyer before this order is filled.

This Purchase Order may contain an item or items issued pursuant to a Master Purchase Order(s) ("MPO") previously agreed to between the City and the Vendor. All of the terms and conditions of the MPO(s) referenced above shall govern the purchase of the related item(s). The Vendor acknowledges and agrees by accepting this Purchase Order: a) that for any item referencing an MPO and where the terms and conditions stated in this Purchase Order differ from the MPO(s) the PO terms are void and of no effect [unless agreed to in a separate written or electronic acknowledgment between the Vendor and the Director of Purchasing] and b) that where there is no MPO referenced above, the Vendor agrees to be bound by all of the terms and conditions of this Purchase Order.

If this purchase order is for a task order, the terms and conditions of the applicable City contract shall govern.

# Purchase Order

**DO NOT INVOICE TO THIS ADDRESS**  
**City and County of Denver**

Purchasing Division  
 201 West Colfax Avenue Dept.304  
 Denver, CO 80202  
 United States  
 Phone: 720/913-8100 Fax: 720/913-8101



<b>Purchase Order</b> PWOPS-0000012865	<b>Date</b> 04/06/2017	<b>Revision</b>	<b>Page:</b> 4 of 6
<b>Payment Terms</b> Net30	<b>Freight Terms</b> DESTINATION	<b>Ship Via</b> Common	
<b>Buyer</b> Romero, Michael P. - Purchasin	<b>Phone</b> 720 913 8122	<b>Origin</b> REG	

**Vendor:** 0000000776 Phone: 303/288-6649 Fax: 303/288-5577

TRANS-WEST TRUCK INC  
 5100 EAST 78TH AVENUE  
 COMMERCE CITY CO 80022  
 United States

**Ship To:**  
 DPW Fleet Maintenance  
 5440 Roslyn  
 Building C, Door C-6  
 Denver CO 80216  
 United States

**Bill To:**  
 Accounts Payable  
 201 West Colfax Ave Dept 908  
 invoices@denvergov.org  
 720/913-8811  
 Denver CO 80202  
 United States

**Tax Exempt? Y**                      **Tax Exempt ID:** 98-02890-000

Line-Sch	Vendor Part#/Description	Mfg ID	Quantity	UOM	PO Price	Extended Amt	Due Date
----------	--------------------------	--------	----------	-----	----------	--------------	----------

**TERMS AND CONDITIONS**

**GENERAL CONDITIONS OF PURCHASE:**

1. Non-Exclusive: This Purchase Order is non-exclusive. City does not guarantee any minimum purchase other than as provided herein
2. Inspection and Acceptance: Vendor shall perform all services in accordance with the standard of care exercised by highly competent vendors who perform like or similar services. City may inspect all goods/services prior to acceptance. Payment does not constitute acceptance. Vendor shall bear the cost of any inspection/testing that reveal goods/services that are defective or do not meet specifications. City's failure to accept or reject goods/services shall not relieve Vendor from its responsibility for such goods/services that are defective or do not meet specifications nor impose liability on City for such goods/services. If any part of the goods/services are not acceptable to City, City may, in addition to any other rights it may have at law or in equity: (1) make a warranty claim; (2) repair and/or replace the goods or substitute other services at Vendor's expense; or (3) reject and return the goods at Vendor's cost and/or reject the services at Vendor's expense for full credit. Any rejected goods/services are not to be replaced without written authorization from City, and any such replacement shall be on the same terms and conditions contained in this Purchase Order.
3. Shipping, Taxes and Other Credits and Charges: Vendor shall procure all permits and licenses; pay all charges, taxes and fees; and give all notices necessary and incidental to the fulfillment of this Purchase Order and all cost thereof have been included in the prices contained herein. City shall not be liable for the payment of taxes, late charges or penalties of any nature, except as required by D.R.M.C. § 20-107, et seq. The price of all goods/services shall reflect all applicable tax exemptions. City's Federal Registration No. is 84-6000580 and its State Registration No. is 98-02890. All pricing is F.O.B. destination unless otherwise specified. Shipments must be marked with Vendor's name, the Purchase Order number, and contain a delivery or packing slip. Vendor shall not impose any charges for boxing, crating, parcel post, insurance, handling, freight, express or other similar charges or fees. Vendor shall notify City in writing of any price decreases immediately, and City shall receive the benefit thereof on all unshipped items. Vendor shall comply with any additional delivery terms specified herein. Vendor shall be responsible for the cleanup and reporting of any contamination (environmental or otherwise) or spillage resulting from the delivery and/or unloading of goods within twenty-four (24) hours of the contamination or spillage or sooner if required by law. Vendor shall pay all sales and use taxes levied by City on any tangible personal property built into the goods/services. Vendor shall obtain a Certificate of Exemption from the State of Colorado Department of Revenue prior to the purchase of any materials to be built into the goods/services and provide a copy of the Certificate to City prior to final payment.
4. Risk of Loss: Vendor shall bear the risk of loss, injury or destruction of goods prior to delivery to City. Loss, injury or destruction shall not release Vendor from any obligation hereunder.
5. Invoice: Each invoice shall include: (i) the purchase order number; (ii) individual itemization of the goods/services; (iii) per unit price, extended and totaled; (iv) quantity ordered, back ordered and shipped; (v) an invoice number and date; (vi) ordering department's name and "ship to" address; and (vii) agreed upon payment terms set forth herein.
6. Payment: Payment shall be subject to City's Prompt Payment Ordinance D.R.M.C. § 20-107, et-seq, after City accepts the goods/services. City's payment obligations hereunder, whether direct or contingent, shall extend only to funds appropriated by the Denver City Council for the purpose of this Purchase Order, encumbered for the purpose of this Purchase Order and paid into the Treasury of City. Vendor acknowledges that: (i) City does not by this Purchase Order, irrevocably pledge present cash reserves for payments in future fiscal years; and (ii) this Purchase Order is not intended to create a multiple-fiscal year direct or indirect debt or financial obligation of City. City may setoff against any payments due to Vendor any claims and/or credits it may have against Vendor under this Purchase Order.
7. Amendments/Changes: Only the Manager of General Services or his delegate is authorized to change or amend this Purchase Order by a formal written change order. Any change or amendment that would cause the aggregate payable under this Purchase Order to exceed the amount appropriated and encumbered for this Purchase Order is expressly prohibited and of no effect. Vendor shall verify that the amount appropriated and encumbered is sufficient to cover any increase in cost due to changes or amendments. Goods/services provided without such verification are provided at Vendor's risk. The Vendor has no authority to bind City on any contractual matters.
8. Warranty: Vendor warrants and guarantees to City that all goods furnished under this Purchase Order are free from defects in workmanship and materials, are merchantable, and fit for the purposes for which they are to be used. For any goods furnished under this Purchase Order which become defective within twelve (12) months (unless otherwise specified) after date of receipt by City, Vendor shall either, at City's election and to City's satisfaction, remedy any and all defects or replace the defective goods at no expense to City within seven (7) days of receipt of the defective goods or accept the defective goods for full credit and payment of any return shipping charges. Vendor shall be fully responsible for any and all warranty work, regardless of third party warranty coverage. Vendor shall furnish additional or replacement parts at the same prices, conditions and specifications delineated herein.
9. Indemnification/Limitation of Liability: Vendor shall indemnify and hold harmless City (including but not limited to its employees, elected and appointed officials, agents and representatives) against any and all losses (including without limitation, loss of use and costs of cover), liability, damage, claims, demands, actions and/or proceedings and all costs and expenses connected therewith (including without limitation attorneys' fees) that arise out of or relate to any claim of infringement of patent, trademark, copyright, trade secret or other intellectual property right related to this Purchase Order or that are caused by or the result of any act or omission of Vendor, its agents, suppliers, employees, or representatives. Vendor's obligation shall not apply to any liability or damages which result solely from the negligence of City. City shall not be liable for any consequential, incidental, indirect, special, reliance, or punitive damages or for any lost profits or revenues, regardless of the legal theory under which such liability is asserted. In no event shall City's aggregate liability exceed the agreed upon cost for those goods/services that have been accepted by City under this Purchase Order up to the Total Purchase Order Amount. Notwithstanding anything contained in this Purchase Order to the contrary, City in no way limits or waives the rights, immunities and protections provided by C.R.S. § 24-10-101, et seq.
10. Termination: City may terminate this Purchase Order, in whole or in part, at any time and for any reason immediately upon written notice to Vendor. In the event of such a termination, City's sole liability shall be limited to payment of the amount due for the goods/services accepted by City. Vendor acknowledges the risks inherent in this termination for convenience and expressly accepts them. Termination by City shall not constitute a waiver of any claims City may have against Vendor.
11. Interference: Vendor shall notify the Director of Purchasing immediately of any condition that may interfere with the performance of Vendor's obligations under this Purchase Order and confirm such notification in writing within twenty-four (24) hours. City's failure to respond to any such notice shall in no way act as a waiver of any rights or remedies City may possess.
12. Venue, Choice of Law and Disputes: Venue for all legal actions shall lie in the District Court in and for City and County of Denver, State of Colorado, and shall be governed by the laws of the State of Colorado as well as the Charter and Revised Municipal Code, rules, regulations, Executive Orders, and fiscal rules of City. All disputes shall be resolved by administrative hearing, pursuant to the procedure established by D.R.M.C. § 56-106. Director of Purchasing shall render the final determination.

# Purchase Order

**DO NOT INVOICE TO THIS ADDRESS**  
**City and County of Denver**

Purchasing Division  
 201 West Colfax Avenue Dept.304  
 Denver, CO 80202  
 United States  
 Phone: 720/913-8100 Fax: 720/913-8101



<b>Purchase Order</b> PWOPS-0000012865	<b>Date</b> 04/06/2017	<b>Revision</b>	<b>Page:</b> 5 of 6
<b>Payment Terms</b> Net30	<b>Freight Terms</b> DESTINATION	<b>Ship Via</b> Common	
<b>Buyer</b> Romero, Michael P. - Purchasin	<b>Phone</b> 720 913 8122	<b>Origin</b> REG	

**Vendor:** 0000000776 Phone: 303/288-6649 Fax: 303/288-5577

TRANS-WEST TRUCK INC  
 5100 EAST 78TH AVENUE  
 COMMERCE CITY CO 80022  
 United States

**Ship To:**  
 DPW Fleet Maintenance  
 5440 Roslyn  
 Building C, Door C-6  
 Denver CO 80216  
 United States

**Bill To:**  
 Accounts Payable  
 201 West Colfax Ave Dept 908  
 invoices@denvergov.org  
 720/913-8811  
 Denver CO 80202  
 United States

**Tax Exempt? Y**      **Tax Exempt ID:** 98-02890-000

Line-Sch	Vendor Part#/Description	Mfg ID	Quantity	UOM	PO Price	Extended Amt	Due Date
----------	--------------------------	--------	----------	-----	----------	--------------	----------

13. Assignment/No Third Party Beneficiary: Vendor shall not assign or subcontract any of its rights or obligations under this Purchase Order without the written consent of City. In the event City permits an assignment or subcontract, Vendor shall continue to be liable under this Purchase Order and any permitted assignee or subcontractor shall be bound by the terms and conditions contained herein. This Purchase Order is intended solely for the benefit of City and Vendor with no third party beneficiaries

14. Notice: Notices shall be made by Vendor to the Director of Purchasing and by City to Vendor at the addresses provided herein, in writing sent registered, return receipt requested.

15. Compliance With Laws: Vendor shall observe and comply with all federal, state, county, city and other laws, codes, ordinances, rules, regulations and executive orders related to its performance under this Purchase Order. City may immediately terminate this Purchase Order, in whole or in part, if Vendor or an employee is convicted, plead nolo contendere, or admits culpability to a criminal offense of bribery, kickbacks, collusive bidding, bid-rigging, antitrust, fraud, undue influence, theft, racketeering, extortion or any offense of a similar nature.

16. Insurance: Vendor shall secure, before delivery of any goods/services, the following insurance covering all operations, goods and services provided to City. Vendor shall keep the required insurance coverage in force at all times during the term of the Purchase Order, or any extension thereof, during any warranty period, and for three (3) years after termination of this Purchase Order. The required insurance shall be underwritten by an insurer licensed to do business in Colorado and rated by A.M. Best Company as "A-"VIII or better. Each policy shall contain a valid provision or endorsement requiring notification to the City in the event any of the required policies be canceled or non-renewed before the expiration date thereof. Such written notice shall be sent to the parties identified in the Notices section of this Agreement. Such notice shall reference the City contract number listed on the signature page of this Agreement. Said notice shall be sent thirty (30) days prior to such cancellation or non-renewal unless due to non-payment of premiums for which notice shall be sent ten (10) days prior. If such written notice is unavailable from the insurer, contractor shall provide written notice of cancellation, non-renewal and any reduction in coverage to the parties identified in the Notices section within three (3) business days of such notice by its insurer(s) and referencing the City's contract number. If any policy is in excess of a deductible or self-insured retention, City must be notified by Vendor. Vendor shall be responsible for the payment of any deductible or self-insured retention. The insurance coverages specified in this Purchase Order are the minimum requirements, and these requirements do not lessen or limit the liability of Vendor. Risk Management reserves the right to require additional policies and/or limits based on agreement scope of work. Vendor shall provide a copy of this Purchase Order to its insurance agent or broker. Vendor may not commence services or work relating to the Purchase Order prior to placement of coverage. Contractor certifies that the attached certificate of insurance attached to the Purchase Order documents, preferably an ACORD certificate, complies with all insurance requirements of this Purchase Order. The City's acceptance of a certificate of insurance or other proof of insurance that does not comply with all insurance requirements set forth in this Purchase Order shall not act as a waiver of Vendor's breach of this Purchase Order or any of the City's rights or remedies under this Agreement. The City's Risk Management Office may require additional proof of insurance, including but not limited to policies and endorsements. Vendor's insurer shall name as Additional Insured to its Commercial General Liability and Business Auto Liability policies the City and County of Denver, its elected and appointed officials, employees and volunteers. Vendor's insurer shall waive subrogation rights against the City. All sub-contractors and sub-consultants (including independent contractors, suppliers or other entities providing goods/services required by this Purchase Order) shall be subject to all of the requirements herein and shall procure and maintain the same coverages required of Vendor. Vendor shall include all such entities as insureds under its policies or shall ensure that they all maintain the required coverages. Vendor shall provide proof of insurance for all such entities upon request by City. For Worker's Compensation Insurance, Vendor shall maintain the coverage as required by statute for each work location and shall maintain Employer's Liability insurance with limits of \$100,000 for each bodily injury occurrence claim, \$100,000 for each bodily injury caused by disease claim, and \$500,000 aggregate for all bodily injuries caused by disease claims. Vendor expressly represents to City, as a material representation upon which City is relying, that none of the Vendor's officers or employees who may be eligible under any statute or law to reject Workers' Compensation Insurance shall effect such rejection during any part of the term of this Purchase Order, and that any such rejections previously effected, have been revoked. Vendor shall maintain Commercial General Liability coverage with limits of \$1,000,000 for each occurrence, \$1,000,000 for each personal and advertising injury claim, \$2,000,000 products and completed operations aggregate, and \$2,000,000 policy aggregate. Vendor shall maintain Business Auto Liability coverage with limits of \$1,000,000 combined single limit applicable to all owned, hired and non-hired vehicles used in performing services under this Purchase Order. For Commercial General Liability coverage, the policy must provide the following: (i) That this Purchase Order is an Insured Contract under the policy; (ii) Defense costs in excess of policy limits; (iii) A severability of interests, separation of insureds or cross liability provision; and (iv) A provision that coverage is non-contributory with other coverage or self-insurance provided by City. For claims-made coverage, the retroactive date must be on or before the first date when any goods or services were provided to City. Vendor must advise the City in the event any general aggregate or other aggregate limits are reduced below the required per occurrence limits. At their own expense, and where such general aggregate or other aggregate limits have been reduced below the required per occurrence limit, the Contractor will procure such per occurrence limits and furnish a new certificate of insurance showing such coverage is in force.

17. Severability: If any provision of this Purchase Order, except for the provisions requiring appropriation and encumbering of funds and limiting the total amount payable by City, is held to be invalid, illegal or unenforceable by a court of competent jurisdiction, the validity of the remaining portions or provisions shall not be affected if the intent of City and Vendor can be fulfilled.

18. Survival: All terms and conditions of this Purchase Order which by their nature must survive termination/expiration shall so survive. Without limiting the foregoing, Vendor's insurance, warranty and indemnity obligations shall survive for the relevant warranty or statutes of limitation period plus the time necessary to fully resolve any claims, matters or actions begun within that period. Bonds shall survive as long as any warranty period.

19. No Construction Against Drafting Party: No provision of this Purchase Order shall be construed against the drafter.

20. Status of Vendor/Ownership of Work Product: Vendor is an independent contractor retained on a contractual basis to perform services for a limited period of time as described in Section 9.1.1E(x) of the Charter of City. Vendor and its employees are not employees or officers of City under Chapter 18 of the D.R.M.C. for any purpose whatsoever. All goods, deliverables, hardware, software, plans, drawings, reports, submittals and all other documents or things furnished to City by Vendor shall become and are the property of City, without restriction.

21. Records and Audits: Vendor shall maintain for three (3) years after final payment hereunder, all pertinent books, documents, papers and records of Vendor involving transactions related to this Purchase Order, and City shall have the right to inspect and copy the same.

22. Remedies/Waiver: No remedy specified herein shall limit any other rights and remedies of City at law or in equity. No waiver of any breach shall be construed as a waiver of any other breach.

23. No Discrimination in Employment: Vendor shall not refuse to hire, discharge, promote or demote, or to discriminate in matters of compensation against any person otherwise qualified, solely because of race, color, religion, national origin, gender, age, military status, sexual orientation, marital status, or physical or mental disability; and Vendor shall insert the foregoing provision in any subcontracts hereunder.

# Purchase Order

**DO NOT INVOICE TO THIS ADDRESS**  
**City and County of Denver**

Purchasing Division  
 201 West Colfax Avenue Dept.304  
 Denver, CO 80202  
 United States  
 Phone: 720/913-8100 Fax: 720/913-8101



<b>Purchase Order</b> PWOPS-0000012865	<b>Date</b> 04/06/2017	<b>Revision</b>	<b>Page:</b> 6 of 6
<b>Payment Terms</b> Net30	<b>Freight Terms</b> DESTINATION	<b>Ship Via</b> Common	
<b>Buyer</b> Romero, Michael P. - Purchasin	<b>Phone</b> 720 913 8122	<b>Origin</b> REG	

**Vendor:** 0000000776 Phone: 303/288-6649 Fax: 303/288-5577

TRANS-WEST TRUCK INC  
 5100 EAST 78TH AVENUE  
 COMMERCE CITY CO 80022  
 United States

**Ship To:**  
 DPW Fleet Maintenance  
 5440 Roslyn  
 Building C, Door C-6  
 Denver CO 80216  
 United States

**Bill To:**  
 Accounts Payable  
 201 West Colfax Ave Dept 908  
 invoices@denvergov.org  
 720/913-8811  
 Denver CO 80202  
 United States

**Tax Exempt? Y**                      **Tax Exempt ID:** 98-02890-000

Line-Sch	Vendor Part#/Description	Mfg ID	Quantity	UOM	PO Price	Extended Amt	Due Date
----------	--------------------------	--------	----------	-----	----------	--------------	----------

24. Use, Possession or Sale of Alcohol or Drugs: Vendor shall cooperate and comply with the provisions of Executive Order 94. Violation may result in City terminating this Purchase Order or barring Vendor from City facilities or from participating in City operations.

25. Conflict of Interest: No employee of City shall have any personal or beneficial interest in the goods/services described in this Purchase Order; and Vendor shall not hire or contract for services any employee or officer of City which would be in violation of City's Code of Ethics, D.R.M.C. §2-51, et seq. or the Charter §§ 1.2.8, 1.2.9, and 1.2.12.

26. Advertising and Public Disclosure: The Vendor shall not include any reference to the Purchase Order or to services performed or goods purchased pursuant to the Purchase Order in any of the Vendor's advertising or public relations materials without first obtaining the written approval of the Director of Purchasing.

27. NO EMPLOYMENT OF ILLEGAL ALIENS TO PERFORM WORK UNDER THE AGREEMENT: a. This Agreement is subject to Division 5 of Article IV of Chapter 20 of the Denver Revised Municipal Code, and any amendments (the "Certification Ordinance"). b. The Contractor certifies that: (1) At the time of its execution of this Agreement, it does not knowingly employ or contract with an illegal alien who will perform work under this Agreement. (2) It will participate in the E-Verify Program, as defined in § 8 17.5-101(3.7), C.R.S., to confirm the employment eligibility of all employees who are newly hired for employment to perform work under this Agreement. c. The Contractor also agrees and represents that: (1) It shall not knowingly employ or contract with an illegal alien to perform work under the Agreement. (2) It shall not enter into a contract with a subconsultant or subcontractor that fails to certify to the Contractor that it shall not knowingly employ or contract with an illegal alien to perform work under the Agreement. (3) It has confirmed the employment eligibility of all employees who are newly hired for employment to perform work under this Agreement, through participation in the E-Verify Program. (4) It is prohibited from using the E-Verify Program procedures to undertake pre-employment screening of job applicants while performing its obligations under the Agreement, and that otherwise requires the Contractor to comply with any and all federal requirements related to use of the E-Verify Program including, by way of example, all program requirements related to employee notification and preservation of employee rights.

(5) If it obtains actual knowledge that a subconsultant or subcontractor performing work under the Agreement knowingly employs or contracts with an illegal alien, it will notify such subconsultant or subcontractor and the City within three (3) days. The Contractor will also then terminate such subconsultant or subcontractor if within three (3) days after such notice the subconsultant or subcontractor does not stop employing or contracting with the illegal alien, unless during such three-day period the subconsultant or subcontractor provides information to establish that the subconsultant or subcontractor has not knowingly employed or contracted with an illegal alien. (6) It will comply with any reasonable request made in the course of an investigation by the Colorado Department of Labor and Employment under authority of § 8-17.5-102(5), C.R.S. or the City Auditor, under authority of D.R.M.C. 20-90.3. d. The Contractor is liable for any violations as provided in the Certification Ordinance. If Contractor violates any provision of this section or the Certification Ordinance, the City may terminate this Agreement for a breach of the Agreement. If the Agreement is so terminated, the Contractor shall be liable for actual and consequential damages to the City. Any such termination of a contract due to a violation of this section or the Certification Ordinance may also, at the discretion of the City, constitute grounds for disqualifying Contractor from submitting bids or proposals for future contracts with the City.

28. In order to receive payment, a complete and responsive invoice must be submitted as required by the City's Prompt Payment Ordinance Article VII of Chapter 20, D.R.M.C., which includes clearly stating the City-generated purchase order or contract number on the invoice and complying with the City's invoicing instructions, including delivery of the invoice to the proper City official or agency.

29. Warranty: Vendor warrants and guarantees to City that all goods furnished under this Purchase Order are free from defects in workmanship and materials, are merchantable, and fit for the purposes for which they are to be used and that any professional services associated with the goods, or stand alone professional services under \$10,000, shall be performed in a workmanlike and professional manner, with the degree of skill and judgment normally exercised by recognized professionals performing services of the same or substantially similar nature. For any goods or services which are, or become defective within twelve (12) months (unless otherwise specified) after date of receipt by City, Vendor shall at no expense to City, at City's election and to City's satisfaction, either remedy any and all defects or replace the defective goods within seven (7) days of receipt of the defective goods or accept the defective goods for full credit and payment of any return shipping charges. Vendor shall be fully responsible for any and all warranty work, regardless of third party warranty coverage. Vendor shall furnish additional or replacement parts at the same prices, conditions and specifications delineated herein.

**Authorized Signature**

Reference Nos.: 17-100, 104,105,106,107,108

**CITY AND COUNTY OF DENVER**  
**Technical Specifications and Request for Proposal Items**  
**For a**  
**Tandem Axle Multi-Purpose Dump Truck with Options**

**1.0 General Description**

A new current model year, Class 8, 64,000 GVWR (plate certified) business class tandem axle truck. The cab and chassis sections 3.0 thru 3.9 is intended to have installed on the cab and chassis the body equipment and accessories in the Section 11.0 The cab and chassis shall be compatible and suitable for the installation of the body equipment listed in Section 11.0 and optional equipment without modifications to the provided cab and chassis. The cab and chassis shall be powered by a turbo-charged diesel engine with charge air cooling, a 64,000 GVWR axle/suspension rating less tires for installation of a multi-purpose live-bottom dump body configuration and options. The cab and chassis and final completed version of the truck shall be suitable for 1) snow plowing and salt/sand spreading, 2) hauling materials from dirt and debris to asphalt for paving operations.

**1.1 Standard Factory Equipment**

All standard factory equipment shall be included with the vehicle/equipment; no deletions of standard factory equipment will be permitted unless specifically superseded in these specifications. Accessories not specifically mentioned herein but necessary to furnish a complete unit ready for use shall also be included.

**1.2 Government Requirements (where applicable)**

The vehicle/equipment shall be built to, and perform in accordance with, all the requirements of the latest edition of the following standards and specifications:

- FHWA, Federal Highway Administration
- SAE, Society of Automotive Engineers Specifications
- FMVSS, Federal Motor Vehicle Safety Standards
- DOT, Department of Transportation Regulations
- AWS, American Welding Society Standards
- PUC, Public Utilities Commission (Colorado)

**1.3 Workmanship and Durability**

Workmanship throughout the vehicle/equipment shall conform to the highest standards. Durability shall be sufficient to allow safe and efficient operation of the equipment/vehicle.

**1.4 Completion of Bid Items and Alternates**

Vendor shall complete each line item in "Offered Equipment" and "Cost" columns in the following manner:

- A. Provide vehicle/equipments technical information: in "Offered Equipment" provide technical information as requested and provide cost of item in "Cost" column.

**SPECIFICATION AND PRICING TEMPLATE**

- B. Included Standard Equipment: in “Offered Equipment” column provide technical information as requested for standard equipment in, “Cost” column write NC for “No Charge”.
- C. Differences: in “RED” ink in “Offered Equipment” column adjacent to Description of Equipment provide information on the item being offered, in “Cost” column provide cost if there is a bid item cost.
- D. Vendors shall break out and list costs for each specification section. Failure to break out proposed costs may cause proposal to be non-responsive. Breakout costs will be used for comparisons clarifying cost issues and if deletions to the specifications need to be made.

**1.5 Major Areas of Concern**

	Description of Concern
A.	Operator Cab Area to include: <ol style="list-style-type: none"> <li>1. Steering wheel belly room.</li> <li>2. Shoulder leg and hip room.</li> <li>3. Head room.</li> <li>4. Operator’s vision.</li> <li>5. Floor height and step distances.</li> <li>6. Ergonomic layout of vehicle and all body controls.</li> <li>7. Ease and speed of operation of all functions.</li> </ol>
B.	Mirror width for use in narrow and obstructed areas to include: <ol style="list-style-type: none"> <li>1. Overall extended mirror width.</li> <li>2. Minimum mirror width.</li> <li>3. Ability for mirrors to be hit by obstructions (branches etc) and absorb the hit with out damage.</li> <li>4. Ability for mirrors to be reset or adjusted into position without operator leaving operator’s station.</li> </ol>
C.	Dual Function Ability: <ol style="list-style-type: none"> <li>1. Primary functions are to efficiently and safely:                             <ol style="list-style-type: none"> <li>a Plow City streets of snow and ice during and after snow storms.</li> <li>b Distribute granular de-icing agents onto the City streets in prescribed tons/mile and record dispensed amounts.</li> </ol> </li> <li>2. Secondary function is to efficiently and safely transport hot asphalt to City paving projects and discharge the asphalt into the City paving machines efficiently and at proper temperature for efficient mat lay down of the asphalt.</li> <li>3. Ability to easily and quickly switch between primary and secondary functions.</li> </ol>
D.	Warranty: <ol style="list-style-type: none"> <li>1. Ability and cost to obtain a 5-year warranty on cab and chassis.</li> <li>2. Ability and cost to obtain an extended warranty on dump body, hoist, snowplow/spreader controls and hydraulic system.</li> <li>3. Location of warranty providers.</li> </ol>
E.	Service Ability: <ol style="list-style-type: none"> <li>1. Ability to easily service cab and chassis items that require regular (yearly or less) servicing and maintenance.</li> <li>2. Ability to easily service dump body, snowplow, hydraulic system and spreader body components/items that require regular (yearly or less) adjusting, servicing and maintenance.</li> </ol>



**SPECIFICATION AND PRICING TEMPLATE**

**2.0 Build Status of Vehicles:**

**2.1 Contractor and all sub vendors after receipt of the City's purchase order shall:**

The primary Contractor (prime vendor) shall be responsible for providing within 15 business days to the City a "Preliminary Build Status Plan" to include but not limited to:

1. The "Build Status Plan" shall include sufficient detail to assure that the ordered units will meet specifications and be built to the highest quality standards and be delivered on time.
2. Placement date of initial order with the cab and chassis manufacture.
3. Cab and chassis manufacturer's date of order acceptance. Written order confirmation is required.
4. Placement date of initial order with the body manufacture.
5. Body manufacturer's date of order acceptance. Written order confirmation is required.
6. Build date for cab and chassis to include start date and completion date.

**2.2 The Contractor shall contact all sub vendors:**

The Contractor shall contact all sub-contractors providing accessories and equipment for the vehicle (s) and provide all the contractors with the list of all accessories and equipment, manufacturer's order confirmation, order number, vehicle specifications, build date and delivery date to dealer from the vehicle manufacturer on the ordered vehicle. It is the cab and chassis selling dealer's responsibility to notify Fleet Management, Purchasing and the body contractor so the body contractor can timely order required components, the accessories, and equipment and has the items in stock and is prepared to install the body, accessories and equipment items when the vehicle arrives at their facility.

**3.0 Basic Requirements or Approved Equal.**

**3.1 Basic Vehicle or Approved Equal**

	Description of Equipment	Offered Equipment	Cost
A.	<ol style="list-style-type: none"> <li>1. Construction type tandem axle straight truck with setback front axle, left-hand steering with stainless steel multi-purpose, live-bottom dump body or approved equal.</li> <li>2. Front axle shall be setback 38" from front of bumper, approximate.</li> <li>3. Wheelbase: 205" approximate.</li> <li>4. Usable Cab-to-Trunnion: 126" approximate.</li> <li>5. Usable After Frame: 64", approximate</li> <li>6. Front tire cut angle 50°, approximate</li> <li>7. Wall-to-wall turning diameter: 67'-0", approximate.</li> <li>8. Maximum cab height: 9'-6", approximate.</li> <li>9. Vendor shall verify that wheelbase cab to axle and rear frame length is appropriate for application. Rear of frame shall extend to rear of body.</li> </ol>	Make: <u>Freightliner</u> Model: <u>114SD</u> GVWR Rating: <u>66,000</u> lbs Front Axle Setback: <u>48</u> in Wheelbase: <u>192</u> " C to T: <u>126</u> " A F: <u>64</u> " Cut Angle: <u>50</u> ° Turn Di: <u>61.8</u> ° Height of Truck Cab: <u>122</u> "	\$ <u>82,454</u>

SPECIFICATION AND PRICING TEMPLATE

	Description of Equipment	Offered Equipment	Cost
B.	<p>Frame:</p> <ol style="list-style-type: none"> <li>Rating 64,000-lbs. GVWR minimum,</li> <li>Heavy-duty 120,000-psi full channel heat-treated steel, with main frame 2,086,000 in-lb.</li> <li>RBM and deep frame section 3,217,000 in-lb. minimum.</li> <li>Frame extension for snowplow installation.</li> </ol>	<p>Frame Rating: <u>66,000</u> -lbs                      Yield Strength: <u>120,000</u> psi                      Section Modulus/rail: <u>22.7</u> in<sup>3</sup>                      Frame RBM/rail: <u>3,217,200</u> lbf-in                      Yes No</p>	<u>Incl</u>
C.	<p>Towing Provisions:</p> <ol style="list-style-type: none"> <li>Tow hooks, two front and two rear, frame mounted.</li> <li>Air brake 3/8" female quick-connect hook up system on right front of the vehicle for wrecker air brake connection. Quick-connectors shall be easily accessible and protected behind the bumper and angled rearward away from the bumper so that hose connection is not difficult.</li> <li>A check valve shall be provided at the vehicles air tank to prevent air loss.</li> </ol>	<p><input checked="" type="radio"/> Yes No                      Type of connection: <u>Quick Connect</u></p> <p><input checked="" type="radio"/> Yes No</p>	<u>\$672</u>
D.	<p>Keying:</p> <ol style="list-style-type: none"> <li>Keys keyed alike Ignition, Door, (same) and Toolboxes (same), 7 sets per vehicle.</li> <li>If the City has similar make and model trucks in the fleet the trucks shall be keyed the same as existing trucks.</li> </ol>	<p><input checked="" type="radio"/> Yes No  <input checked="" type="radio"/> Yes No</p>	<u>\$ N/C</u>

3.2 Engine or Approved Equal

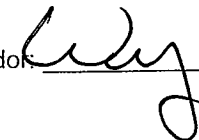
	Description of Equipment	Offered Equipment	Cost
A.	<p>Engine:</p> <ol style="list-style-type: none"> <li>Cummins ISX-11.9 liter, VGT turbocharged diesel engine, rated at 370 hp @ 2,100 rpm, torque 1,450 lb/ft @ 1,200 rpm, 2,100 rpm governed includes:</li> <li>Engine shall utilize DEF (diesel exhaust fluid) to meet current EPA regulations and reduce NOx:</li> <li>Engine shall meet the EPA, 50-State Clean Idle Certification</li> <li>Engines shall be electronically controlled with following components:                             <ol style="list-style-type: none"> <li>Engine protection system to monitor low oil pressure, high coolant temperature and low coolant level that will prevent component damage with manual over-ride on truck engine:</li> <li>Low oil pressure.</li> <li>High oil temperature.</li> <li>High coolant temperature.</li> <li>Low coolant level.</li> </ol> </li> </ol>	<p>Make: <u>Detroit</u> Model: <u>DD13</u>                      HP: <u>380</u> @ <u>1800</u> rpm                      Torque: <u>1450</u> @ <u>1100</u> rpm</p> <p><input checked="" type="radio"/> Yes No  <input checked="" type="radio"/> Yes No  <input checked="" type="radio"/> Yes No  <input checked="" type="radio"/> Yes No  <input checked="" type="radio"/> Yes No</p>	<p><u>\$240</u></p> <p><u>\$ Incl</u>  <u>\$ 56</u></p> <p><u>\$ N/C</u></p> <p><u>\$ N/C</u></p>

SPECIFICATION AND PRICING TEMPLATE

Description of Equipment	Offered Equipment	Cost
f. High transmission oil temperature. g. Idle shutdown timer set at 10 minutes. h. Speed limiter top gear and cruise. 5. Computer controlled fast idle and PTO protection. 6. Thermos bottle stopper-type dipstick. 7. Magnetic drain plug. 8. Delco-Remy 22-SI, 160 amp alternator. 9. Delco-Remy 39 MT, 12v starter with over crank protection.	<input checked="" type="radio"/> No <input checked="" type="radio"/> No : <u>10</u> minutes <input checked="" type="radio"/> No <input checked="" type="radio"/> No <input checked="" type="radio"/> No <input checked="" type="radio"/> No Make: <u>Delco Remy</u> Model: <u>28 SI 160</u> Make: <u>Delco Remy</u> Model: <u>39MT OCP</u>	\$ <u>STD</u>  \$ <u>STD</u> \$ <u>STD</u> \$ <u>STD</u>
B. Retardation: 1. Transmission output shaft retarder (preferred Option) No External Driveline Retarders. 2. Engine and exhaust/turbo brake combination that does not raise exhaust noise (no Jacobs brakes). 3. Retardation shall be activated into 1 <sup>st</sup> stage when the driver removes their foot from the throttle pedal. Stages 2, 3 and 4 shall be progressively activated by the brake pedal before the foundations brakes are engaged. 4. Retarded control switches dash mounted with easy access for the driver. a On/Off switch. b High/Low retardation range.	Provide Specs: _____ Provide Brake Horsepower: _____ Provide Brake Horsepower: _____ <u>Transmission Retarder</u> Yes No <u>N/A at this Time</u>  <input checked="" type="radio"/> No <input checked="" type="radio"/> No <input checked="" type="radio"/> No	\$ <u>N/A</u> \$ <u>N/A</u> \$ <u>N/A</u> \$ <u>STD</u>
C. Filtration: 1. Oil: Fleetguard LF3000 full flow/bypass oil filter. 2. Fuel: Racor 690RP12 fuel/water separator with thermostatically controlled fuel line heater.	Make: <u>Detroit</u> Model: <u>Full Flow</u> Make: <u>DAVCO</u> Model: <u>482</u>	\$ <u>STD</u> \$ <u>360</u>
D. Engine Air Intake: 1. The air intake shall be under the hood. 2. The air intake shall be positioned so that the air filter can be easily serviced. 3. Air filter dual element dry type. 4. Air inlet restriction indicator located in cab.	<input checked="" type="radio"/> No <input checked="" type="radio"/> No Make: <u>Donaldson</u> Model: <u>12x8 PC</u> <input checked="" type="radio"/> No	\$ <u>STD</u>
E. Exhaust Meeting 2010 EPA Standards: 1. Exhaust discharge shall be on the right side of the vehicle below the dump body cab protector. 2. The exhaust after treatment device shall be vertically mounted behind the cab so as to not obstruct maintenance/repairs underneath the truck.	Trap Make: <u>Detroit</u> Model: <u>1 BOX</u> Location: <u>Under Passenger DOOR</u> <u>Vertical Pipe</u>	\$ <u>520</u>

## SPECIFICATION AND PRICING TEMPLATE

	Description of Equipment	Offered Equipment	Cost
	3. Vertical chrome stack and stainless steel exhaust guard curved out 60° elbow. The exhaust stack/60° elbow shall easily fit up to Denver's exhaust gas evacuation system. 4. Exhaust discharge shall be below the dump body cab protector and exhaust gases shall not discolor the dump body. The exhaust turn out shall extend out enough to prevent exhaust noise reverberation into the cab and shall also have approximately 6" of clearance to the headache board.	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No	
F.	Fuel Tank: 1. Capacity 80-gallons 2. The fuel tank shall be frame mounted on left side of chassis.	Fuel Take Volume: <u>80</u> gallons Location: <u>LH</u>	\$ <u>84</u> \$ <u>NIC</u>
G.	Diesel Enhancement Fluid Tank: 1. Location behind fuel tank 2. Size 6-gallons minimum 3. Tank fill opening shall be easily identified as "DEF Fluid Only" and shall not accept the entrance of a standard diesel fuel nozzle.	Location: <u>LH</u> DEF Tank Volume: <u>6</u> gallons <input checked="" type="radio"/> Yes No	\$ <u>STD</u>
H.	Coolant Hoses: 1. Gates "Blue Stripe" hoses 2. Hose clamps constant torque hose clamps.	Make: <u>Gates</u> Type: <u>Blue Stripe</u> <input checked="" type="radio"/> Yes No	\$ <u>STD</u> \$ <u>STD</u>
I.	Fan Clutch: 1. Horton Drive Master fan clutch with automatic fan control. 2. The fan shall operate off of engine coolant and transmission coolant temperature.	Make: <u>Kysor</u> Model: <u>ON/OFF</u> <input checked="" type="radio"/> Yes No	\$ <u>STD</u>
J.	Air compressor: 1. Engine mounted with no belts. 2. Bendix Westinghouse 15.5 cfm minimum.	Make: <u>Bendix</u> Model: <u>BA-921</u> Size: <u>19</u> cfm	\$ <u>STD</u>
K.	Cold weather starting aids on truck engine. 1. Block heater, Phillips "Zero-Start" 120vAC, 1500 Watt, engine coolant temperature controlled to: a. Turn "on" at 40°F engine coolant temperature. b. Turn "off" at 55°F engine coolant temperature. 2. The plug-in station shall have 2 LED indicator lights to: a. Light when plugged into "hot line" to show "hot line is energized." b. Light when engine coolant drops below 40°F. 3. Plug-in shall be mounted under driver's door, protected from mechanical and weather damage. Heater plug shall be a male standard grounded 15 amp rated plug.	Make: <u>Phillips</u> Model: <u>Temro</u> On Temperature: <u>40</u> Off Temperature: <u>55</u> <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No Location: <u>LH Driver Door</u>	\$ <u>600</u> \$ <u>Incl</u> \$ <u>STD</u>



0750A-2012  
SPECIFICATION AND PRICING TEMPLATE

Description of Equipment	Offered Equipment	Cost
4. A decal or information plate shall be provided describing how the system functions. The decal/plate shall be heavy-duty UV protected and capable of withstanding pressure washing and other normal vehicle functions.	<input checked="" type="radio"/> Yes    No	\$ <u>25</u>
5. Cold weather starting assist (no either allowed).	Type: <u>STD</u>	\$ <u>STD</u>

3.3 Transmission and Drivetrain or Approved Equal

Description of Equipment	Offered Equipment	Cost
A. Transmission:	Make: <u>Allison</u> Model: <u>4500 RDS</u>	\$ <u>13,800</u>
1. Allison New World HD4500-RDS-P, wide ratio, 6-speed rated for 1,550 lb/ft torque with the following components:	Speeds: <u>6</u>	
2. Transmission and rear differential gearing shall be optimized for "Best" fuel economy; speed shall not be more than 67 mph at maximum engine rpm.	<input checked="" type="radio"/> Yes    No	
3. Transmission computer unit shall talk with snow fighting computer providing accurate ground speed information for accurate chemical; spread rates.	<input checked="" type="radio"/> Yes    No	\$ <u>42</u>
4. Deep pan transmission sump with "Gold Series" filter kit rated for severe duty of 75,000 miles or 36 months.	<input checked="" type="radio"/> Yes    No	\$ <u>STD</u>
5. Retarder, See Section 3.2.B retarder shall be activated for 1 <sup>st</sup> stage when the driver removes their foot from the throttle pedal (if transmission retarder is purchased).		
6. Transmission retarded control switches dash mounted with easy access for the driver (if provided)	Yes <input checked="" type="radio"/> No	
7. On/Off switch.	Yes <input checked="" type="radio"/> No	
8. High/Low retardation range.	Yes <input checked="" type="radio"/> No	
9. Electric push-button transmission controls dash mounted.	<input checked="" type="radio"/> Yes    No	
10. Transmission interface wiring for Allison MD/HD transmission.	<input checked="" type="radio"/> Yes    No	
11. Allison TranSynd transmission fluid.	Fluid Type: <u>Synthetic</u>	
12. Transmission water-to-oil cooler.	<input checked="" type="radio"/> Yes    No	
13. Magnetic drain plug.	<input checked="" type="radio"/> Yes    No	

SPECIFICATION AND PRICING TEMPLATE

	Description of Equipment	Offered Equipment	Cost
B.	<p>Power Take Off (PTO)</p> <ol style="list-style-type: none"> <li>Transmission direct mounted "Hot Shift" Chelsea 890 series with hydraulic pumps direct mounted to Chelsea 890 PTO at rear of the transmission</li> <li>PTO speed limiter shall be connected to the engine computer not to an external overspeed box (EOS).</li> <li>PTO shall efficiently operate all hydraulic systems at engine "low idle" 750 rpm or less. Increasing engine speed above 800 rpm shall not improve hydraulic operations.</li> </ol>	<p>Make: _____ Model: _____</p> <p>Yes No</p> <p>Yes No</p> <p>PTO Idle rpm: _____</p>	<p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p>
C.	<p>Rear Axles:</p> <ol style="list-style-type: none"> <li>Eaton single reduction, capacity 46,000-lbs.</li> <li>Driver controlled main power divider locking differential.</li> <li>Oil pump.</li> <li>Axle temperature sensor.</li> <li>Axle ratio for 67-mph top speed in 6th gear at maximum engine rpm for "Best" Fuel Economy.</li> <li>Oil seals, Union 76 Triton EP 75W-90 synthetic gear lubricant.</li> <li>Magnetic drain plug.</li> </ol>	<p>Make: <u>Meritor</u> Model: <u>RT 46 160P</u></p> <p>Gear ratio: <u>5.63</u></p> <p><input checked="" type="checkbox"/> Yes No</p> <p><input checked="" type="checkbox"/> Yes No</p> <p>Top Speed: <u>67</u> mph level</p> <p>Axle Ratio: <u>5.63</u></p> <p><input checked="" type="checkbox"/> Yes No</p> <p><input checked="" type="checkbox"/> Yes No</p>	<p>\$ <u>2100</u></p>
D.	<p>Front Axle:</p> <ol style="list-style-type: none"> <li>Eaton, capacity 20,000-lbs. minimum</li> <li>Oil seals and Union 76 Triton EP 75W-90 synthetic gear lubricant.</li> </ol>	<p>Make: <u>Detroit</u> Model: <u>DA F 20</u></p> <p>Capacity: <u>20,000</u></p>	<p>\$ <u>2300</u></p>
E.	<p>Springs:</p> <ol style="list-style-type: none"> <li>Front leaf with graphite impregnated spring pin bushings. Front: capacity 20,000-lbs. minimum with shock absorbers.</li> <li>Rear Hendrickson RTE-463 walking-beam, multi-leaf spring system, dual spring rate.                     <ol style="list-style-type: none"> <li>The leaf spring suspension shall utilize an extended leaf/multi-hanger design to allow for smoother ride when the truck is empty or lightly loaded and full suspension when fully loaded.</li> <li>Transverse rods for better cornering</li> <li>Rear capacity 46,000-lbs minimum</li> <li>Suspension shall have inboard mounted HD shock absorbers.</li> </ol> </li> </ol>	<p>Make: <u>SEE</u> Model: <u>APPENDIX 2</u></p> <p>Capacity _____ - lbs</p> <p>Make: _____ Model: _____</p> <p>Capacity: _____ - lbs Ride Height: _____</p> <p>Axle Spacing: _____ inches</p> <p>Yes No</p> <p>Yes No</p> <p>Capacity: _____ lbs</p> <p>Yes No</p>	<p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p>

Mandatory for Pre-Qualification and due as required in the Revised Schedule of Events (Specifications Due Date) indicated in addenda #2 document.

3.3	Description of Equipment	Offered Equipment	Cost
E.	<p>Springs:</p> <ol style="list-style-type: none"> <li>1. Front leaf with graphite impregnated spring pin bushings. Front: capacity 20,000-lbs. minimum with shock absorbers.</li> <li>2. Rear Suspension:                             <ol style="list-style-type: none"> <li>a. Suspension shall be designed for high-articulation for transversing bumps, ridges and washboard without bottoming out the suspension even during cross articulation</li> <li>b. The suspension shall be 2-stage with a softer spring rate for unloaded/light load operation and a full heavy suspension for operating at maximum load.</li> <li>c. The suspension shall have a combination elastomer rubber center bearing and parabolic tapered leaf springs to support and control the axle movements.</li> <li>d. The suspension shall use transverse and torque rods for differential positioning and controlling axle wind-up.</li> <li>e. Rear suspension capacity 46,000-lbs minimum</li> <li>f. Suspension shall have inboard heavy-duty shock absorbers</li> <li>a. If drum brakes are provided the brake chambers shall be forward mounted to provide asphalt paver clearance.</li> </ol> </li> </ol>	<p>Make: <u>FTL</u> Model: _____  <u>Flat leaf</u>                      Capacity: <u>20,000</u> - lbs</p> <p>Make: <u>Hendrickson</u> Model: <u>Haulmax</u></p> <p>Excellent Articulation for Intended Purpose/Application: <input checked="" type="radio"/> Yes No                      Suspension 2-Stage: <input checked="" type="radio"/> Yes No</p> <p>Describe Suspension Design: <u>Rubber Center Bearing Tapered leaf springs</u></p> <p>Type of Axle Locators Used: <u>Ultra ROPS</u></p> <p>Weight Capacity: <u>46,000</u> lbs                      HD Shock Absorbers: <input checked="" type="radio"/> Yes No</p> <p>If Drum Brakes Brake Chamber Location: _____</p>	<p>\$ <u>N/C</u></p> <p>\$ <u>2900</u></p>

*Wj*

SPECIFICATION AND PRICING TEMPLATE

	Description of Equipment	Offered Equipment	Cost
F.	Brakes: 1. Bendix, 17" disc front, model ADB22x extended service brakes with non-asbestos brake pads. 2. Bendix, 17" disc rear, model ADB225 extended service brakes with non-asbestos brake pads. 3. Brake chambers type 2824, size 24 chamber. 4. All brake components shall provide adequate clearance for asphalt/paver operations	Front Make: <u>Bendix</u> Model: <u>ADB 22x-v</u> Disc Size: <u>17</u> in Rear Make: <u>Bendix</u> Model: <u>ADB 22x-v</u> Front Chamber: <u>24</u> Rear Chamber: <u>24</u> <input checked="" type="radio"/> Yes No	\$ <u>2012</u>
G.	Anti-Lock Brake System / Automatic Traction Control system: 1. Anti-Lock Brake System (ABS): Eaton 6S/6M with ATC, 6-channel with (6 sensors & 6 modulators) and 5-9 psi crack pressure relay valve. System shall control all wheels/axles for safe braking. 2. Automatic Traction Control (ATC) shall work in conjunction with the Eaton ABS brake system in low traction situations limiting torque to least loaded tire allowing most loaded tire to receive torque and pull the vehicle. The ATC system in conjunction with the Interaxle Driveline Lock shall provide traction control very similar to the Driver Controlled Differential Lock system. 3. Interaxle Driveline Lock (IADL) to lock front and rear drive axles together. The interaxle differential lock shall be automatically locked via the ATC or manually locked by the driver. The IADL switch shall activate a flashing LED warning light. 4. Air lines shall be color-coded nylon type.	Make: <u>WABCO</u> Model: <u>4s/4m</u> <u>with ATC</u> <input checked="" type="radio"/> Yes No  <input checked="" type="radio"/> Yes No  <input checked="" type="radio"/> Yes No	\$ <u>131</u>  \$ <u>1 inch</u>  \$ <u>STD</u>  \$ <u>STD</u>
H.	Air Dryer: (No Approved Equal) 1. Bendix AD-IP with heated steel reservoir, automatic moisture ejector and cable operated air tank drain valves accessible from outside of vehicle. No Approved Equals. 2. Air dryer shall be installed on the outside of the frame rail in a location that is easy access and does not exceed 15-minutes to service unit.	Make: <u>Bendix</u> Model: <u>AD-IP</u>  Location: <u>LH Rail</u>	\$ <u>N/c</u>  \$ <u>N/c</u>
I.	Driveline: 1. Heavy-Duty, 2-piece, 2. Eaton Permalube type U-joints.	Make: <u>Meritor</u> Model: <u>Extended</u> <u>hub</u>	\$ <u>N/c</u>
J.	Power Steering: 1. TRW 2. Reservoir 2-qt minimum.	Make: <u>TRW</u> Model: <u>THP60 w/</u> <u>RCH 45</u>	\$ <u>N/c</u>



SPECIFICATION AND PRICING TEMPLATE

3.4 Electrical System or Approved Equal

	Description of Equipment	Offered Equipment	Cost
A.	Alternator: 1. Delco-Remy 22SI heavy duty, internally regulated, output 160-amp minimum.	Make: <u>Delco</u> Model: <u>28SI</u> Output: <u>160</u> amps	\$ <u>STD</u>
B.	Batteries: 1. Batteries, Group 31 with a total CCA of 1,950 minimum.  2. Battery location frame mounted right side. 3. Battery shut-off switch easy to see and access. 4. Jump start provision easy to access. 5. Battery cables (00) stranded copper minimum. 6. Battery box enclosure shall be steel or aluminum (no plastic)	Make: <u>Alliance</u> Model: <u>1231</u> Quantity: <u>3</u> Location: <u>LH under cab</u> <input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No Size: <u>00</u> Material: <u>Steel</u>	\$ <u>STD</u>      \$ <u>170</u>
C.	Circuit Protection: 1. Circuit breakers with manual reset, no fuses. 2. Circuit breaker panel shall be easy to access. 3. Circuit breaker panel shall be clearly labeled for easy identification.	Circuit Protection Type: <u>solid state</u> <input checked="" type="checkbox"/> Yes No <u>circuit protection and fuses</u>	\$ <u>STD</u>
D.	Wiring: 1. Wiring shall be color coded with hot stamped wire numbers. 2. All wiring shall be run in sealed wiring looms to reduce corrosion from magnesium chloride products.	Color coded: <input checked="" type="checkbox"/> Yes No Hot Stamped: <input checked="" type="checkbox"/> Yes No Wiring sealed: <input checked="" type="checkbox"/> Yes No	\$ <u>STD</u>
E.	Body Builder Junction Box: 1. Body builder's junction box shall be provided in cab to prevent corrosion from magnesium chloride. 2. Terminal shall be marked for easy identification.	Location: <u>Firewall</u> <input checked="" type="checkbox"/> Yes No	\$ <u>41</u>
F.	Back Up Alarm: 1. The back up alarm shall be 112 dB, SAE type B, fully sealed, back-up alarm system with: 2. Wired into vehicle's backup light system using OEM plug-in adapter. 3. The alarm shall be mounted out of the vehicle's rear wheel splash area and shall be shielded.	dBa rating: <u>112</u> <input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No	\$ <u>73</u> \$ <u>STD</u> \$ <u>STD</u>

SPECIFICATION AND PRICING TEMPLATE

	Description of Equipment	Offered Equipment	Cost
G.	Lights: (No Approved Equals) 1. Halogen sealed beam headlights, 12v. 2. Daytime running lights. 3. Wiring shall be sealed modular plug-in type. 4. All lights shall be Truck-Lite "Lifetime Warranty" 12vDC, LED type, flush mount, sealed lexan body, grommet insulated with Fit' N Forget multi-pin plugs where possible. 5. Integral Stop/Turn/Tail/ lights mounted in the rear corner post of the dump body model Super 44 P/N 44302R or model 60 P/N 60250R. 6. Back up lights Truck-Lite LED, flush mount, sealed lexan body, grommet insulated, multi-pin units model 44 P/N 44206C. 7. Marker lights Truck-Lite LED 3 per side model 10 P/N 10250R or 10250Y or model.30 P/N 30250R or 30250Y. 8. Rear ID bar Truck-Lite LED model 35 P/N 35741R or 35740R. 9. License plate light, Truck-Lite model 15 P/N 15040	<input checked="" type="radio"/> Yes    No <input checked="" type="radio"/> Yes    No <input checked="" type="radio"/> Yes    No Make: <u>FTL</u> Model: <u>LED</u>  Make: <u>FTL</u> Model: <u>LED</u>  Make: <u>FTL</u> Model: <u>LED</u>  Make: <u>FTL</u> Model: <u>LED</u>  Make: <u>FTL</u> Model: <u>LED</u>  Make: <u>FTL</u> Model: <u>LED</u>	\$ <u>STD</u> \$ <u>8</u> \$ <u>STD</u>  \$ <u>85</u>  \$ <u>inck</u> \$ <u>inck</u> \$ <u>inck</u> \$ <u>inck</u>

3.5 Cooling System or Approved Equal

	Description of Equipment	Offered Equipment	Cost
A.	Cooling system with coolant recovery tank capable of maintaining engine manufacturer's recommended operating temperatures at an elevation of 6,800' in 120° F low humidity ambient conditions shall be provided.	<input checked="" type="radio"/> Yes    No  Protection Temperature: <u>-34</u>	\$ <u>STD</u>  \$ <u>STD</u>
B.	Coolant protection shall be -34° F.	Make: <u>Detroit</u> Model: <u>DDWF</u>	\$ <u>STD</u>
C.	Fleetguard coolant filter WF2071.		\$ <u>STD</u>

SPECIFICATION AND PRICING TEMPLATE

3.6	Tires and Wheels or Approved Equal	Offered Equipment	Cost
A.	Tires: 1. Tires 315/80R22.5, tubeless, 20-ply, load range L. 2. Front: Michelin XZUS, Steer Tires. 3. Rear dual: Michelin XZUS, Steer Tires	Size: <u>31580R22.5 20</u> Make: <u>Michelin</u> Model: <u>XZU-S2</u> Make: <u>Michelin</u> Model: <u>XZU-S2</u>	\$ <u>1240</u> \$ <u>4900</u> \$ <u>644</u>
B.	Wheels: A. Disc, 10-hole, Hub piloted type, Single nut, Meets ISO Standard 4107. B. White powder epoxy coated finish. C. Front 22.5" x 9". D. Rear 22.5" x 9"	Make: <u>Hayes</u> Model: <u>Kemmerz</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Size: <u>22.5</u> x <u>9</u> Size: <u>22.5</u> x <u>9</u>	

3.7	Interior or Approved Equal	Offered Equipment	Cost
A.	Steering Controls Left Side: 1. All critical controls required to operate the vehicle shall be easy to reach and operate from left seat. 2. Tilt and telescoping steering wheel to accommodate operators with large variations in sizes.	Make: <u>FTL</u> Model: _____ Tilt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Telescoping: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	\$ <u>STD</u> \$ <u>240</u> \$ <u>Inch</u>
B.	Cab Interior Design: 1. The cab shall be configured to be ergonomic, comfortable and with ample room to minimize operator fatigue and discomfort. The City has operators of varying statures and adjustable seating and controls will increase safety and minimize on-the-job related physical problems and fatigue. 2. The interior design and seat position shall provide for installation of snowplow joystick and controls in an ergonomic and functional design.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If "No" Explain: _____ <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If "No" Explain: _____	
C.	Required Submittals with Bid: 1. Requested information must be submitted with bid for evaluation. Failure to submit the requested information may make bid non-responsive. 2. Interior left side dimensions measured: a. Belly Room: seat back to steering wheel. b. Leg Room: seat front edge to brake pedal. c. Head Room: seat cushion to ceiling. d. Seat fore/aft travel:	Provide Materials: _____ _____ Seat full forward: <u>16</u> "    Seat full back: <u>25</u> " Seat full forward: <u>13</u> "    Seat full back: <u>22</u> " Seat full lowered: <u>43</u> "    Seat full raised: <u>39</u> " Travel: <u>9</u> "	

SPECIFICATION AND PRICING TEMPLATE

Description of Equipment	Offered Equipment	Cost
e. Seat height travel: f. Steering Wheel "Knuckle Clearance": distance to closest object g. Floor Height: measured ground to cab floor. h. Cab Step Heights: measured from ground. i. Steering Wheel Tilt and Telescoping: 3. Location of the transmission shifter:	Travel: <u>4</u> " Knuckle Clearance: <u>8</u> " Height: <u>52</u> " 1 <sup>st</sup> Step: <u>18</u> " 2 <sup>nd</sup> Step: <u>36</u> " Tilt: <u>20</u> ° Telescoping distance: <u>3</u> "	
D. Seats: 1. Driver's seats shall be air suspension Bostrom, Talladega 910 high back driver's seat, gray vinyl with gray cloth insert and arm rests. 2. Passengers seat Bostrom high back non-suspension seat with gray vinyl.	Make: <u>Bostrom</u> Model: <u>T910</u> Arm Rest: <input checked="" type="checkbox"/> Yes No Make: <u>Bostrom</u> Model: <u>NON-SUSP</u>	\$ <u>170</u> \$ <u>STD</u>
E. Upfitter's Switch Panel: 1. The vehicle manufacturer shall provide for the snowplow and salt/sander body manufacturer an upfitter's switch panel with a minimum of 10 switches for sundries equipment control switches. 2. The panel location shall be in an ergonomic location and shall not require more than 30° head movement and be within easy reach of driver's of various sizes and physiques. 3. The switch panel shall have permanently labeled and lighted rocker switches for all optional sundries equipment and lights etc.	<input checked="" type="checkbox"/> Yes No Number of Switches: <u>10</u> <input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No 2016 Reduced to 6: \$168 Net Reduction: -\$112	<del>\$ <u>280</u></del> \$168 -\$112
F. Instrumentation: 1. Instrumentation shall include speedometer, engine hourmeter, tachometer, voltmeter, coolant temperature, oil temperature, oil pressure, transmission oil temperature, fuel level, front/rear differential temperature gauges and air pressure with low air-pressure alarms (light, audible).	<input checked="" type="checkbox"/> Yes No No Explain: _____	\$ <u>STD</u>
G. Floor Covering: 1. Floor covering shall be heavy-duty black rubber/vinyl flooring.	Flooring Type: <u>Heavy Duty Black Rubber</u>	\$ <u>STD</u>
H. Air Conditioning: 1. Factory installed cab R134A air conditioning 2. Cab shall be insulated to include floor, firewall, roof and walls.	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No	\$ <u>STD</u>
I. Windshield Wipers: 1. Wipers 2-speed self parking. 2. Intermittent wiper mode.	Speeds: <u>2</u> Self Park: <input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No	\$ <u>STD</u>

0750A-2012  
SPECIFICATION AND PRICING TEMPLATE

	Description of Equipment	Offered Equipment	Cost
J.	Radio: 1. Radio AM/FM stereo with speaker balance. 2. Speakers two required.	Make: <u>Panasonic</u> Model: <u>Am / Fm</u> <input checked="" type="radio"/> Yes No	\$ <u>150</u>
K.	Fire extinguisher: 1. Extinguisher ABC, 5-lb. dry type rechargeable 2. Installed in cab. 3. Location labeled with 1" letters on outside of the cab.	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No	\$ <u>51</u>
L.	Grab Handles: 1. One each on exterior of cab for operator and passenger assist and one interior for passenger. 2. Grab handles shall provide adequate clearance to other objects to provide easy access and clearance to prevent pinch or other hazards.	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No	\$ <u>21</u>

3.8 Exterior or Approved Equal:

	Description of Equipment	Offered Equipment	Cost
A.	Paint: 1. Polyurethane paint equal to DuPont Imron 5000, "Bright White", applied following manufacture's procedures to include: 2. Color top coat, 2 coats, applied to all non-stainless steel components following manufactures procedures. 3. Removing all mill scale and slag. 4. Variprime 615S self-etching primer or approved equal. 5. Treating bare metal with manufacturer's conditioners and conversion coatings or approved equal.	Make: <u>Emron</u> Type: <u>6000</u> Color: <u>White</u> <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No	\$ <u>STD</u>
B.	Engine Hood: 1. Engine fully accessible and serviceable, 2. Front hood and fenders shall easily tilt forward for access.	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No	\$ <u>STD</u>
C.	Cab Design: 1. Cab steel or aluminum heavy-duty body, Construction Type 2. Air suspension 3. The hood shall have a 10" minimum slope for improved driver visibility. 4. Molded 1-piece fiberglass hood and fenders with painted hood and stationary mounted grill. 5. Rubber fender extensions. 6. Exterior sun visor full width. 7. Right lower door window. 8. Electric windows left and right sides.	Cab Material: <u>Aluminum</u> <input checked="" type="radio"/> Yes No Hood Slope: <u>10</u> inches <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No	\$ <u>STD</u> \$ <u>STD</u> \$ <u>STD</u> \$ <u>STD</u> \$ <u>48</u> \$ <u>122</u> \$ <u>140</u> \$ <u>110</u>

SPECIFICATION AND PRICING TEMPLATE

	<p>9. Door and ignition keyed the same.</p>	<p><input checked="" type="radio"/> Yes    No</p>	
<p>D.</p>	<p>Mirrors: "No Approved Equal"          1. Rear view mirrors Moto Mirror Model 7-5400 "Flat Back Traditional" 7" x 16" motor head, remote, heated, stainless steel left and right mounted on the cab.          2. Convex 8" stainless steel mirrors mounted under primary mirrors.          3. Right hand down mirror shall also be provided.          4. Convex mirror on right front fender to show small objects along the right side of the truck.</p>	<p>Make: <u>West Coast</u> Model: <u>Dual Axis</u>  <u>HTD / Remote</u>          Make: <u>FTL</u> Model: <u>8"</u>          Provide Mirror Width: <u>102</u>  <input checked="" type="radio"/> Yes    No</p>	<p>\$ <u>240</u></p>
<p>E.</p>	<p>Bumper Guides:          1. Front outer bumper guides steel chrome 30" high with top indicator light'          2. The bumper guides shall not interfere with the opening and closing of the tilt hood.</p>	<p>Make: <u>FTL</u> Model: <u>lighted</u>  <input checked="" type="radio"/> Yes    No</p>	<p><del>\$ 260</del>          REMOVED FOR 2016</p>
<p>F.</p>	<p>Air Horns:          1. Dual Hadley 26" air horns with shields          2. Mounted on top left side of cab.</p>	<p>Make: <u>Hadley</u> Model: <u>26"</u>          Location: <u>Top of cab LH</u></p>	<p>\$ <u>47</u></p>
<p>G.</p>	<p>Undercoating:          1. A protective non-asphaltic base undercoat          2. Undercoating shall be applied to all exposed undercarriage parts and components, which are subject to corrosion.</p>	<p>Brand: _____ Type: _____          Yes    No</p>	<p>\$ _____</p>

0750A-2012  
SPECIFICATION AND PRICING TEMPLATE

VEHICLE SUB TOTAL COST | \$ 117,336

**3.9 Optional Equipment**

Do not include Optional Equipment in the total price of the vehicle; however an equipment price must be provided. The City will determine if the equipment is to be purchased.

	Description of Equipment	Offered Equipment	Cost
A.	<b>Optional Rear Air Suspension:</b> 1. Hendrickson Tuf-Trac rear Multi-Leaf HAS460-55 4-air bag air-ride spring system with 9.5" ride height and inboard mounted shock absorbers. Rear: capacity 46,000-lbs. Minimum.	Make: <u>FTL</u> Model: <u>TuffTRAC</u> Ride Height: <u>12.8</u> inches	\$ <u>N/A</u>
B.	<b>Spare Tire and Wheel:</b> 1. Tire and wheel assembly: 1 per vehicle. 2. Tire: Michelin XZUS, Steer Tire. 3. Wheel: Size 22.5" x 9", disc, 10-hole, hub piloted type, single nut, meeting ISO Standard 4107. "White" powder epoxy coated finish.	Make: _____ Model: _____ Make: _____ Model: _____	\$ <u>1396</u>
C.	<b>Optional Undercoating:</b> 1. Provide additional undercoating choices over and beyond the basic factory OE undercoating. 2. Include any additional warranties that are applied if the Optional Undercoating is selected. 3. Provide benefits of the optional undercoating over and beyond the "Standard Factory" undercoating.	Make: _____ Model: _____ Type: _____ Additional Warranties: _____ Benefits: _____	\$ <u>N/A</u>
D.	<b>Zonar System (No Approved Equals)</b> The Zonar system shall be the model EVIR-GPS-GSM (Electronic vehicle information reports- global position system- global systems mobile communications) and provide the following functions minimum: 1. The system shall be fully compatible with and fully interface with: a. CCG Faster fleet maintenance software b. Kronos time keeping system for reporting employee data 2. Webb based reporting. 3. The system shall provide the following functions: a. Ties the operator to the vehicle. b. Pre and Post trip vehicle inspection information and compliance. c. Send inspection information to Fleet Maintenance for an automatic "work order" generation. d. Track vehicle time out of the yard, time on route, and return to yard time. e. Tracks engine idle time.	Make: <u>Zonav</u> Model: <u>EVIR-GPS-GSM</u>  <input checked="" type="radio"/> Yes    No <input checked="" type="radio"/> Yes    No <input checked="" type="radio"/> Yes    No  <input checked="" type="radio"/> Yes    No <input checked="" type="radio"/> Yes    No  <input checked="" type="radio"/> Yes    No <input checked="" type="radio"/> Yes    No  <input checked="" type="radio"/> Yes    No <input checked="" type="radio"/> Yes    No	\$ <u>950</u>  \$ <u>incl</u> \$ <u>incl</u> \$ <u>incl</u>  \$ <u>incl</u> \$ <u>incl</u>  \$ <u>incl</u> \$ <u>incl</u>  \$ <u>incl</u> \$ <u>incl</u>

**SPECIFICATION AND PRICING TEMPLATE**

	<p>f. Monitors route pick-ups/work stops, show the vehicles route and work stops on a real time basis.</p> <p>g. Uses the City's own maps of Denver area.</p> <p>h. Captures meter readings (odometer, engine hours) reports for PM scheduling.</p> <p>i. Has five (5) additional electronic inputs 8 to 30 vDC for monitoring and reporting vehicle functions and information.</p> <p>4. The system shall be fully contained in an injection molded, impact resistant plastic case that is water -tite and insulated.</p> <p>5. The system shall have passed SAE J-1455 vibration test</p>	<p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p>	<p>\$ <u>incl</u></p> <p>\$ <u>incl</u></p> <p>\$ <u>incl</u></p> <p>\$ <u>incl</u></p> <p>\$ <u>incl</u></p> <p>\$ <u>incl</u></p>
<p>E.</p>	<p>Inspection Trip:</p> <p>1. The City and County of Denver reserves the right to inspect at the cab and chassis during the construction of the first (1st) article prior to paint and delivery.</p> <p>2. When the fabricating plant is located further than 200 road-miles from the City and County of Denver, the bidder shall include in the bid price all travel expenses to the manufacturing plant for the inspection.</p> <p>3. The City may select to send 4 representatives to inspect the 1<sup>st</sup> article. The provided costs shall be based on one (1) person per day and the City will determine how many representatives the inspection will require and how many days the inspection will require.</p> <p>4. Inspection Trip Costs to include:</p> <p>a. Air fare per person:</p> <p>b. Surface transportation costs:</p> <p>c. Lodging per person per day:</p> <p>d. Meals per person per day:</p> <p>5. Total cost per person for 1st article inspection trip:</p>	<p>Provide information:</p> <p>Distance to fabrication plant: <u>1550</u> miles</p> <p>Plant Location: <u>MT Holly, N.C.</u></p> <p>Air Fare: \$ <u>450</u>, Airline: <u>TBD</u></p> <p>Surface Transportation: \$ <u>20</u>, Mode: <u>shuttle</u></p> <p>Lodging / day: \$ <u>100</u></p> <p>Hotel: <u>TBD</u></p> <p>Meals / day: \$ <u>50</u></p>	<p>\$ <u>450</u></p> <p>\$ <u>20</u></p> <p>\$ <u>100</u></p> <p>\$ <u>50</u></p> <p>\$ <u>620</u></p>




## SPECIFICATION AND PRICING TEMPLATE

## 5.0 Manuals/Equipment

Item	Description of Equipment	Offered Equipment	Cost
<b>Training Tape</b>	One VHS tape, DVD or CD demonstrating and explaining the safe and proper use of the vehicle/equipment. 1. Cab and chassis.	Yes <input checked="" type="radio"/> No	\$
<b>Operators Manual Paper</b>	One book per vehicle/equipment with "safe equipment operation" section for each component. 1. Cab and Chassis.		\$ <u>N/C</u>
<b>Service/ Maintenance Manual Paper</b>	Two complete sets per Contract (not per vehicle); binder required, 1. Manuals shall be provided for: A. Cab and Chassis 2. Manuals shall include complete and detailed information for maintenance of the equipment, including general information, specifications, troubleshooting guide, lubrication and required adjustments. 3. The hydraulic and electrical sections of the manuals shall be provided in a separate electrical/hydraulic binder. Both the hydraulic and electrical circuits shall have separate color coded schematics for each equipment function to show the flow of both electrical current and hydraulic oil.	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No  Yes <input checked="" type="radio"/> No	\$ <u>500</u>
<b>Service/ Maintenance Manual on CD rom or DVD</b>	One complete set; per Contract (not per vehicle) 1. Manuals shall be provided for: A. Cab and Chassis 2. Manuals shall include complete and detailed information for maintenance of the equipment, including general information, specifications, troubleshooting guide, lubrication and required adjustments. 3. The hydraulic and electrical sections of the manuals shall be provided in a separate electrical/hydraulic binder. Both the hydraulic and electrical circuits shall have separate color coded schematics for each equipment function to show the flow of both electrical current and hydraulic oil.	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No  Yes <input checked="" type="radio"/> No	\$ <u>500</u>

**SPECIFICATION AND PRICING TEMPLATE**

	<p>4. New CD roms or DVDs shall be provided when information is updated, superseded or changed.</p>	<p><input checked="" type="radio"/> Yes    No</p>	<p>\$ <u>500</u></p>
<p><b>Service/ Maintenance Manual on Internet Access, or Other Electronic Media</b></p>	<p>One complete set; per Contract (not per vehicle)</p> <p>1. Vendor shall provide access to the site for the length of time that the City owns the vehicle/equipment at a one time up front cost to the City.</p> <p>2. Internet information shall include complete and detailed information for maintenance of the equipment, including general information, specifications, troubleshooting guide, lubrication and required adjustments.</p> <p>3. The hydraulic and electrical sections of the manuals shall be provided in a separate electrical/hydraulic binder. Both the hydraulic and electrical circuits shall have separate color coded schematics for each equipment function to show the flow of both electrical current and hydraulic oil.</p>	<p><input checked="" type="radio"/> Yes    No</p> <p><input checked="" type="radio"/> Yes    No If other Specify: _____</p> <p>Yes    <input checked="" type="radio"/> No</p>	<p>\$ <u>500</u></p>
<p><b>Parts Manual Paper</b></p>	<p>Two complete sets, per Contract (not per vehicle) binders required,</p> <p>1. Manuals shall be provided for: A. Cab and Chassis</p> <p>2. Illustrated parts book shall be furnished containing data so that part numbers can be readily found for each system.</p>	<p><input checked="" type="radio"/> Yes    No</p> <p><input checked="" type="radio"/> Yes    No</p>	<p>\$ <u>500</u></p>
<p><b>Parts Manual on CD rom or DVD</b></p>	<p>One complete set, per Contract (not per vehicle) illustrated parts book shall be furnished containing data so that part numbers can be readily found for each system.</p> <p>1. Information shall be provided for: A. Cab and chassis</p> <p>2. Parts manuals shall include complete and detailed information for replacement parts for the equipment, including general information, specifications ordering guide lines and superseded parts information.</p> <p>3. New CD roms or DVDs shall be provided when information is updated, superseded or</p>	<p><input checked="" type="radio"/> Yes    No</p> <p><input checked="" type="radio"/> Yes    No</p> <p><input checked="" type="radio"/> Yes    No</p>	<p>\$ <u>500</u></p>



SPECIFICATION AND PRICING TEMPLATE

<p><b>Parts Manual on Internet Access, or Other Electronic Media</b></p>	<p>changed. One complete subscription; per Contract (not per vehicle) 1. Internet information shall allow the City 24 hour 7 days/week including holidays access from its main maintenance facility and all its satellite maintenance facilities. 2. Internet information shall include complete and detailed information for parts for the: A. Cab and Chassis 3. Internet information shall cover vehicle/equipment, shall include general parts information, parts specifications, ordering guide lines and superseded parts information. 4. Vendor shall provide access to the site for the length of time that the City owns the vehicle/equipment at a one time up front cost to the City. 5. Parts manuals shall include complete and detailed information for replacement parts for the equipment, including general information, specifications ordering guide lines and superseded parts information.</p>	<p>Access Information: 7 days/week including holidays <input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p>If other Specify: _____</p> <p><input checked="" type="radio"/> Yes No</p>	<p>\$ <u>N/C</u></p>
<p><b>New Equipment Check-in Form:</b></p>	<p>The successful vendor shall complete the City's "New Equipment Check-in Form" completely and accurately with all requested information.</p>	<p>_____</p> <p>_____</p>	<p>\$ <u>N/C</u></p>

0750A-2012  
SPECIFICATION AND PRICING TEMPLATE

5.1 **Operator and Mechanics Training**

Item	Description of Equipment	Offered Equipment	Cost
<b>On Site Equipment Manufacturers Training</b>	On site the vendor shall insure that the equipment manufacturers training representative, after delivery of the equipment Contacts Fleet Maintenances training manager to coordinate equipment training.	<u>ON SITE WALKAROUND</u>	\$ <u>N/C</u>
<b>Fleet Maintenance Training Manager</b>	Mr. Felix Espinosa, Telephone: 720.865.3912 Contact time: 8:00 am to 3:00 pm M-F		
<b>Training Requirements</b>	Training shall consist of factory training materials, classroom and actual field training on the equipment for the equipment operators and supervisors.	<u>Training Facility @ Dealership</u>	\$ <u>N/C</u>
<b>On Site Mechanics Training</b>	On site mechanics training shall be 2 classes, approximately 8 hours, 2 shifts total provided at City facilities. The training shall cover maintenance and service procedures, trouble shooting and use of manuals.	<u>AVAILABLE</u>	\$ <u>1,000</u>

6.0 **Repair Parts Delivery-See Main Bid Document Section B.4 Line 6**

## SPECIFICATION AND PRICING TEMPLATE

## 7.0 Warranty

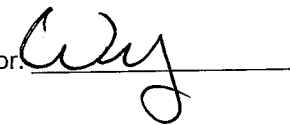
## 7.1 General Warranty Provisions

WARRANTY (Table 1) Class 7 & 8 Vehicles		Complies (Y or N/A)
A.	Express warranty is to be a minimum of 12 months on the vehicle/equipment. The standard factory warranty plan shall be provided as an attachment to your bid proposal	Y
B.	The Warranty is to include at no cost to the City of Denver, all parts and labor, and no charge for work performed at the vendors facility	Y
C.	Warranty shall start when the City places the vehicle into service <b>NOT</b> on the delivery date. Taking an exception may make bid non compliant.	Y
D.	Warranty plans shall consist of the total unit and be broken out to a separate plan for each warranty item if applicable, such as engine warranty plan, transmission warranty plan, electrical, etc.	Y
E.	Options listed shall be bid and provided as factory installed under the terms of the full factory-backed warranty. This includes, but is not limited to: air conditioning, radios, cruise control, bumpers, towing packages etc. Dealer-installed options will not be permitted unless pre-approved by the City in writing and, where applicable, indicated on bid sheet as a "dealer installed" non-factory item.	Y
F.	Bidder will be responsible for warranty repair of all installed options/auxiliary equipment included in the bid that has a standard warranty that is less than the standard warranty for the base vehicle/equipment	Y
G.	Bidder shall use a single, local factory authorized dealership that will accomplish or coordinate required warranty work. The dealership must have a minimum of 1-year experience as a factory authorized vendor for like equipment being bid. Warranty parts shall be available and supplied within 24 hours	Y
H.	If applicable, bidder shall provide a plan for the City to be reimbursed if the work can be done by the City on site. The current shop rate is \$71.00/hour, not to exceed \$85.00/hour. (Enter a response of N/A if not available)	N/A
I.	The bidder shall respond to request for warranty assistance within twenty-four (24) hours.	Y
J.	Warranty work shall be accomplished within an appropriate length of time (generally less than 3 working days for everything other than major component repair such as a transmission rebuild) and shall be coordinated with an authorized City representative	Y
K.	During the entire warranty period, if the unit requires transportation to a repair facility, the vendor/sub-vendors shall be responsible for all transportation at "NO COST" to the City and County of Denver. This includes transporting the unit back to the City's domicile location after repairs are complete. If an alternate is bid, charges to the City of Denver shall be listed (e.g. mileage, travel, labor, etc.). Even if an alternate is bid, in NO CIRCUMSTANCES will the City and County of Denver be responsible for transporting a unit greater than 25 miles from the center of Denver. For purposes of these warranty provisions, the center of Denver is defined as the City and County Building located on the corner of Colfax and Bannock Street.	Y

Reference Nos.

24

Vendor/Sub Vendor

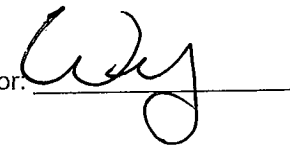


## SPECIFICATION AND PRICING TEMPLATE

L.	The item(s) procured by the City pursuant to this Bid Proposal shall, in addition to being subject to the express warranties referenced above, be subject to all implied warranties arising by operation of law under State of Colorado and Federal law, including but not limited to the implied warranty of merchantability and, to the extent applicable, the implied warranty of fitness for a particular purpose arising under the Colorado Uniform Commercial Code, Title 4, Colorado Revised Statutes. The bidder shall in no event attempt to limit or disclaim any of such implied warranties under this Bid Proposal, and any attempt to do so will render the bidder's bid non-responsive under this Bid Proposal.	Y
M.	This warranty in Table 1 and Table 2, is IN ADDITION to factory warranties on the vehicle and components	

## 7.2 Fleet Defects

WARRANTY - (Table 2) Fleet Defect Clause, Class 7 & 8 Vehicles	
A.	<b>Definition:</b> If during the warranty period, thirty percent (30%) of the total number of units delivered have the same part(s) and/or components failure requiring replacement and/or modifications, caused by defects in Design, Testing, Material, and/or Workmanship, then this "Fleet Defect Clause" goes into effect.
B.	<b>Remedy:</b> Following notification of a Fleet Defect, the vendor shall develop and implement a plan that either reengineers, modifies, or replaces the defective parts/ systems, such that the identified problem is cured and the operation of the vehicle/equipment is not altered. When alterations are required to cure the defect, those alterations that change or modify the original bid specifications must be approved by the City and County of Denver prior to execution. The vendor will pay for all necessary labor and materials to repair, modify, and/or "update" all vehicles/units in this group. The vendor shall also propose a work schedule that is mutually agreed upon by the City of Denver that corrects the fleet deficiency within 30 days or a mutual agreed upon schedule.
C.	<b>Exceptions:</b> Fleet defects will not apply to minor aftermarket accessories specified by the City of Denver and installed per instructions/specifications. Examples include: toolboxes, spotlights, bed-liners, etc.
D.	<b>Mitigation:</b> Should the vendor become non responsive to the City's notification of a Fleet Defect, the City may employ several options. (1) After notifying the vendor in writing of The City's intent to mitigate its circumstances, the City may chose to perform its own warranty work and seek reimbursement for both parts and labor. (2) On major components, such as engine, transmission, air conditioning, etc., the City may chose to have the repairs performed by an authorized dealer and vendor shall reimburse the City for any parts or labor not covered by other warranty.
E.	<b>Outside Metro-Denver:</b> Vendor will pay for all transportation costs if unit(s) must be sent out of the Denver area for repairs. The City and County of Denver reserves the right to inspect unit(s) before returning back to Denver. The City and County of Denver also reserves the right to send at least one employee, without cost to the City, to inspect the repair(s) before unit is released back to the City.
F.	<b>Expired Warranties:</b> Units that have mutually agreed upon warranty defects during the warranty period will continue to be repaired until completed. If an on-going remedy continues past the warranty date the repairs will continue under warranty until completed or cease at a time agreed upon by the vendor and City and County of Denver.



7.3 Warranty Options

		<b>WARRANTY Options (Table 3) Class 7 &amp; 8 Vehicles</b>		
<b>Cost of Factory Extended Warranties</b>		<b>Please indicate in the columns below the additional cost of an extended warranty for all applicable components listed in the left hand column.</b>		
		<b>Inc = Included</b>		<b>N/A = Not available</b>
		<b>Two Years</b>	<b>Three Years</b>	<b>Five Years</b>
A.	Cab and Chassis	1558	2931	5311
B.	Engine	included	1500	3150
C.	Transmission	included	included	825
D.	Drive Train	included	1225	3500
E.	Suspension	152	221	458
F.	Air Conditioning	736	941	1150
G.	Hydraulics			
H.	a. Pumps			
	b. Cylinders			
	c. Tanks			
	d. Valves			
	e. Controls			
I.	Attached Body			
J.	Joystick			
K.	Electrical Components			
L.	Other			
M.	Notes:			

## SPECIFICATION AND PRICING TEMPLATE

**7.4 Warranty Service Locations:** Warranty repair parts and service shall be available locally at an established factory authorized dealership meeting requirements of Table 1 Section 7.

A. Cab &amp; Chassis:

Dealership Name: Transwest Trucks  
Street Address: 7624 Brighton RdTelephone #: 303-289-3161  
City: Commerce City

B. Sundries:

Dealership Name: Transwest Trucks  
Street Address: 7550 E 1-25 Frontage  
Rd.Telephone #: 303-684-3400  
City: FREDERICK, CO

Reference Nos.:

27

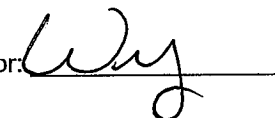
Vendor/Sub Vendor: WJ



## SPECIFICATION AND PRICING TEMPLATE

## 8.0 Heavy Duty Vehicle Delivery Documentation:

Delivery Documentation (GVWR 26,001-Lbs and Above Heavy Duty)	
A.	<b>Vehicles ordered under this specification</b> shall be complete and delivered to CITY AND COUNTY OF DENVER, Fleet Management Division. All prices quoted must be quoted at a firm price F.O.B. Denver, Colorado, 5440 Roslyn St. Building C.
B.	<p><b>Vendor shall supply at acceptance and delivery of vehicle.</b></p> <ol style="list-style-type: none"> <li>1. Bill of Sale (aka invoice, buyers order)</li> <li>2. Original MSO (Manufacturers Statement of Origin)</li> <li>3. Application for Title and/or Registration, Colorado Dept of Revenue form DR2395 (02-22-11)</li> <li>4. Odometer Disclosure Statement, Colorado Dept of Revenue form DR2407 (09-07-05)</li> <li>5. Letter of Certification on Vendor Letterhead (Required for Incomplete Vehicles) with added bodies etc, describes the final configuration of the vehicle)</li> <li>6. Air Brake inspection form required for any vehicle with air brakes or truck units capable of towing trailers greater than 10,000-Lbs</li> <li>7. Standard Sales Tax Receipt.</li> <li>8. DOT inspection form.</li> <li>9. Temporary License Plate.</li> <li>10. New Equipment Check-in Form/ Vendor Supplied Information on the Vehicle. Form provided by Fleet contact Dolores @ 720.865.3903</li> <li>11. Copy of City Purchase Order.</li> <li>12. All Keys ordered for the Vehicle and Sundries, i.e. toolboxes etc.</li> <li>13. All Manuals repair, parts, owners and/or CD's/DVD's etc</li> <li>14. Vehicle Warranty information and receipt for optional warranty.</li> <li>15. Receipts and Warranty information for vendor Installed/supplied components (lift gates, snowplows, lighting equipment etc)</li> </ol>
C.	<p>For an "Incomplete Vehicle" (cab &amp; chassis) add the following:</p> <ol style="list-style-type: none"> <li>16. Verification of Vehicle Identification Number (VIN), Colorado Dept. of Revenue form DR2087.</li> <li>17. Statement of Fact for incomplete vehicles with added bodies etc, describes the final configuration of the vehicle.</li> <li>18. Original weight slip.</li> </ol>
D.	<p>Delivery:  Monday through Friday between 8:00am and 1:00pm.  Location: CITY AND COUNTY OF DENVER  Fleet Management  5440 Roslyn St. Building C  Denver, CO 80216  Contact person to coordinate delivery: Dolores Gallegos at (720) 865-3900 ext. 03 or direct line (720) 865-3903.</p>



## Romero, Michael P. - Purchasing

---

**From:** Will Schafer [whschafer@transwest.com]  
**Sent:** Wednesday, May 29, 2013 12:58 PM  
**To:** Romero, Michael P. - Purchasing  
**Cc:** Bales, Gary D. - PW Fleet; Legg, Doug - PW Street Maintenance; Cooper, Tony L. - PW Fleet  
**Subject:** Freightliner chassis options  
**Attachments:** DENVER SINGLE FRAME.doc; DENVER DOUBLE FRAME.doc

**Categories:** Important

Michael,

The option for a 13 gallon DEF tank with factory fill is \$ 92.00

We also have an option for a single frame rail with over 3,000,000 RBM(specs attached). Eliminate wear issues between the double channel frame rails.

\$ 496.00 and adds only 5 LBS including PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION for the snow plow.

Thanks,

***Will Schafer***  
**Government/Fleet Manager**



**303-301-7509** Direct  
**303-907-1357** Cell  
**303-288-2310** Fax

[whschafer@transwest.com](mailto:whschafer@transwest.com)

0750A-2012  
SPECIFICATION AND PRICING TEMPLATE

9.0 Vehicle Delivery

9.1 Delivery of Cab and Chassis to Body Vendor

	<b>PROVIDE NUMBER OF DAYS REQUIRED FOR DELIVERY OF CAB AND CHASSIS AFTER PURCHASE ORDER IS ISSUED</b> 90-120 DAYS
--	--

10.0 Complete Vehicle Cost

Include: <ul style="list-style-type: none"> <li>○ Cab &amp; Chassis Total Cost</li> </ul> Do Not Include: <ul style="list-style-type: none"> <li>○ Optional Equipment</li> <li>○ Warranty Cost (s)</li> <li>○ Manual Cost (s)</li> <li>○ Informational Items in Section 11.0 of the specifications (Below)</li> <li>● Dump Body Total Cost</li> <li>● Snowplow System Total Cost</li> <li>● Spreader System Total Cost</li> <li>● Optional Items Total Cost</li> </ul>	<b>TOTAL COST, CAB and CHASSIS</b>  \$ 117,336
--	--

PRICE: \$117,336 {ORIGINAL}  
 REMOVE: < - \$281> (Block Heater)  
 DEF TANK: +\$92  
 FRAME OPTION: +\$496  
 REMOVED BUMPER GUIDES: <-260> (NEW FOR 2016)  
 SWITCHES TO 6: < \$-112>  
 2016 PPI ADJUSTMENT: +\$11,294  
 2017 VOLUNTARY PRICE REDUCTION: \$ <-5,073>  
 2017-5 YEAR VIRTUAL TECHNICIAN SUBSCRIPTION: \$288  
 2017-ZONAR TABLET (INSTALLED): \$875  
 2017 FINAL PRICE: \$124,655

Reference Nos.: 17-101,102

**CITY AND COUNTY OF DENVER**  
**Technical Specifications and Request for Proposal Items**  
**For a**  
**Tandem Axle Multi-Purpose Dump Truck with Options**

**1.0 General Description**

A new current model year, Class 8, 64,000 GVWR (plate certified) business class tandem axle truck.

The cab and chassis sections 3.0 thru 3.9 is intended to have installed on the cab and chassis the body equipment and accessories in the Section 11.0 The cab and chassis shall be compatible and suitable for the installation of the body equipment listed in Section 11.0 and optional equipment without modifications to the provided cab and chassis.

The cab and chassis shall be powered by a turbo-charged diesel engine with charge air cooling, a 64,000 GVWR axle/suspension rating less tires for installation of a multi-purpose live-bottom dump body configuration and options. The cab and chassis and final completed version of the truck shall be suitable for 1) snow plowing and salt/sand spreading, 2) hauling materials from dirt and debris to asphalt for paving operations.

**1.1 Standard Factory Equipment**

All standard factory equipment shall be included with the vehicle/equipment; no deletions of standard factory equipment will be permitted unless specifically superseded in these specifications. Accessories not specifically mentioned herein but necessary to furnish a complete unit ready for use shall also be included.

**1.2 Government Requirements (where applicable)**

The vehicle/equipment shall be built to, and perform in accordance with, all the requirements of the latest edition of the following standards and specifications:

- FHWA, Federal Highway Administration
- SAE, Society of Automotive Engineers Specifications
- FMVSS, Federal Motor Vehicle Safety Standards
- DOT, Department of Transportation Regulations
- AWS, American Welding Society Standards
- PUC, Public Utilities Commission (Colorado)

**1.3 Workmanship and Durability**

Workmanship throughout the vehicle/equipment shall conform to the highest standards. Durability shall be sufficient to allow safe and efficient operation of the equipment/vehicle.

**1.4 Completion of Bid Items and Alternates**

Vendor shall complete each line item in "Offered Equipment" and "Cost" columns in the following manner:

- A. Provide vehicle/equipments technical information: in "Offered Equipment" provide technical information as requested and provide cost of item in "Cost" column.

**SPECIFICATION AND PRICING TEMPLATE**

- B. Included Standard Equipment: in “Offered Equipment” column provide technical information as requested for standard equipment in, “Cost” column write NC for “No Charge”.
- C. Differences: in “RED” ink in “Offered Equipment” column adjacent to Description of Equipment provide information on the item being offered, in “Cost” column provide cost if there is a bid item cost.
- D. Vendors shall break out and list costs for each specification section. Failure to break out proposed costs may cause proposal to be non-responsive. Breakout costs will be used for comparisons clarifying cost issues and if deletions to the specifications need to be made.

**1.5 Major Areas of Concern**

	Description of Concern
A.	Operator Cab Area to include: <ol style="list-style-type: none"> <li>1. Steering wheel belly room.</li> <li>2. Shoulder leg and hip room.</li> <li>3. Head room.</li> <li>4. Operator’s vision.</li> <li>5. Floor height and step distances.</li> <li>6. Ergonomic layout of vehicle and all body controls.</li> <li>7. Ease and speed of operation of all functions.</li> </ol>
B.	Mirror width for use in narrow and obstructed areas to include: <ol style="list-style-type: none"> <li>1. Overall extended mirror width.</li> <li>2. Minimum mirror width.</li> <li>3. Ability for mirrors to be hit by obstructions (branches etc) and absorb the hit with out damage.</li> <li>4. Ability for mirrors to be reset or adjusted into position without operator leaving operator’s station.</li> </ol>
C.	Dual Function Ability: <ol style="list-style-type: none"> <li>1. Primary functions are to efficiently and safely:                             <ol style="list-style-type: none"> <li>a Plow City streets of snow and ice during and after snow storms.</li> <li>b Distribute granular de-icing agents onto the City streets in prescribed tons/mile and record dispensed amounts.</li> </ol> </li> <li>2. Secondary function is to efficiently and safely transport hot asphalt to City paving projects and discharge the asphalt into the City paving machines efficiently and at proper temperature for efficient mat lay down of the asphalt.</li> <li>3. Ability to easily and quickly switch between primary and secondary functions.</li> </ol>
D.	Warranty: <ol style="list-style-type: none"> <li>1. Ability and cost to obtain a 5-year warranty on cab and chassis.</li> <li>2. Ability and cost to obtain an extended warranty on dump body, hoist, snowplow/spreader controls and hydraulic system.</li> <li>3. Location of warranty providers.</li> </ol>
E.	Service Ability: <ol style="list-style-type: none"> <li>1. Ability to easily service cab and chassis items that require regular (yearly or less) servicing and maintenance.</li> <li>2. Ability to easily service dump body, snowplow, hydraulic system and spreader body components/items that require regular (yearly or less) adjusting, servicing and maintenance.</li> </ol>

**SPECIFICATION AND PRICING TEMPLATE**

**2.0 Build Status of Vehicles:**

**2.1 Contractor and all sub vendors after receipt of the City's purchase order shall:**

The primary Contractor (prime vendor) shall be responsible for providing within 15 business days to the City a "Preliminary Build Status Plan" to include but not limited to:

1. The "Build Status Plan" shall include sufficient detail to assure that the ordered units will meet specifications and be built to the highest quality standards and be delivered on time.
2. Placement date of initial order with the cab and chassis manufacture.
3. Cab and chassis manufacturer's date of order acceptance. Written order confirmation is required.
4. Placement date of initial order with the body manufacture.
5. Body manufacturer's date of order acceptance. Written order confirmation is required.
6. Build date for cab and chassis to include start date and completion date.

**2.2 The Contractor shall contact all sub vendors:**

The Contractor shall contact all sub-contractors providing accessories and equipment for the vehicle (s) and provide all the contractors with the list of all accessories and equipment, manufacturer's order confirmation, order number, vehicle specifications, build date and delivery date to dealer from the vehicle manufacturer on the ordered vehicle. It is the cab and chassis selling dealer's responsibility to notify Fleet Management, Purchasing and the body contractor so the body contractor can timely order required components, the accessories, and equipment and has the items in stock and is prepared to install the body, accessories and equipment items when the vehicle arrives at their facility.

**3.0 Basic Requirements or Approved Equal.**

**3.1 Basic Vehicle or Approved Equal**

	Description of Equipment	Offered Equipment	Cost
A.	<ol style="list-style-type: none"> <li>1. Construction type tandem axle straight truck with setback front axle, left-hand steering with stainless steel multi-purpose, live-bottom dump body or approved equal.</li> <li>2. Front axle shall be setback 38" from front of bumper, approximate.</li> <li>3. Wheelbase: 205" approximate.</li> <li>4. Usable Cab-to-Trunnion: 126" approximate.</li> <li>5. Usable After Frame: 64", approximate</li> <li>6. Front tire cut angle 50°, approximate</li> <li>7. Wall-to-wall turning diameter: 67'-0", approximate.</li> <li>8. Maximum cab height: 9'-6", approximate.</li> <li>9. Vendor shall verify that wheelbase cab to axle and rear frame length is appropriate for application. Rear of frame shall extend to rear of body.</li> </ol>	Make: <u>Freightliner</u> Model: <u>114SD</u> GVWR Rating: <u>66,000</u> lbs Front Axle Setback: <u>48</u> in Wheelbase: <u>192</u> " C to T: <u>126</u> " A F: <u>64</u> " Cut Angle: <u>50</u> ° Turn Di: <u>61.8</u> ° Height of Truck Cab: <u>122</u> "	\$ <u>82,454</u>

SPECIFICATION AND PRICING TEMPLATE

**2016 QUAD AXLE: Lengthen Frame: \$667.00**

	Description of Equipment	Offered Equipment	Cost
B.	Frame: 1. Rating 64,000-lbs. GVWR minimum, 2. Heavy-duty 120,000-psi full channel heat-treated steel, with main frame 2,086,000 in-lb. 3. RBM and deep frame section 3,217,000 in-lb. minimum. 4. Frame extension for snowplow installation.	Frame Rating: <u>66,000</u> -lbs Yield Strength: <u>180,000</u> psi Section Modulus/rail: <u>22.7</u> in <sup>3</sup> Frame RBM/rail: <u>3,217,200</u> lbf-in Yes No	<u>Incl</u>
C.	Towing Provisions: 1. Tow hooks, two front and two rear, frame mounted. 2. Air brake 3/8" female quick-connect hook up system on right front of the vehicle for wrecker air brake connection. Quick-connectors shall be easily accessible and protected behind the bumper and angled rearward away from the bumper so that hose connection is not difficult. 3. A check valve shall be provided at the vehicles air tank to prevent air loss.	<input checked="" type="radio"/> Yes No Type of connection: <u>Quick Connect</u>  <input checked="" type="radio"/> Yes No	<u>\$672</u>
D.	Keying: 1. Keys keyed alike Ignition, Door, (same) and Toolboxes (same), 7 sets per vehicle. 2. If the City has similar make and model trucks in the fleet the trucks shall be keyed the same as existing trucks.	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No	<u>\$ N/C</u>

3.2 Engine or Approved Equal

	Description of Equipment	Offered Equipment	Cost
A.	Engine: 1. Cummins ISX-11.9 liter, VGT turbocharged diesel engine, rated at 370 hp @ 2,100 rpm, torque 1,450 lb/ft @ 1,200 rpm, 2,100 rpm governed includes: 2. Engine shall utilize DEF (diesel exhaust fluid) to meet current EPA regulations and reduce NOx: 3. Engine shall meet the EPA, 50-State Clean Idle Certification 4. Engines shall be electronically controlled with following components: a. Engine protection system to monitor low oil pressure, high coolant temperature and low coolant level that will prevent component damage with manual over-ride on truck engine: b. Low oil pressure. c. High oil temperature. d. High coolant temperature. e. Low coolant level.	Make: <u>Detroit</u> Model: <u>DD13</u> HP: <u>380</u> @ <u>1800</u> rpm Torque: <u>1450</u> @ <u>1100</u> rpm  <input checked="" type="radio"/> Yes No 2016 Quad Axle Upgrade 500 HP /1850 FT LB+ \$2,366 <input checked="" type="radio"/> Yes No  <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No	<u>\$240</u>  <u>\$ Incl</u> <u>\$ 56</u> <u>\$ N/C</u>  <u>\$ N/C</u>

SPECIFICATION AND PRICING TEMPLATE

Description of Equipment	Offered Equipment	Cost
f. High transmission oil temperature. g. Idle shutdown timer set at 10 minutes. h. Speed limiter top gear and cruise. 5. Computer controlled fast idle and PTO protection. 6. Thermos bottle stopper-type dipstick. 7. Magnetic drain plug. 8. Delco-Remy 22-SI, 160 amp alternator. 9. Delco-Remy 39 MT, 12v starter with over crank protection.	<input checked="" type="radio"/> No <input checked="" type="radio"/> No : <u>10</u> minutes <input checked="" type="radio"/> No <input checked="" type="radio"/> No <input checked="" type="radio"/> No <input checked="" type="radio"/> No Make: <u>Delco Remy</u> Model: <u>28 SI 160</u> Make: <u>Delco Remy</u> Model: <u>39MT OCP</u>	\$ <u>STD</u>  \$ <u>STD</u> \$ <u>STD</u> \$ <u>STD</u>
B. Retardation: 1. Transmission output shaft retarder (preferred Option) No External Driveline Retarders. 2. Engine and exhaust/turbo brake combination that does not raise exhaust noise (no Jacobs brakes). 3. Retardation shall be activated into 1 <sup>st</sup> stage when the driver removes their foot from the throttle pedal. Stages 2, 3 and 4 shall be progressively activated by the brake pedal before the foundations brakes are engaged. 4. Retarded control switches dash mounted with easy access for the driver. a On/Off switch. b High/Low retardation range.	Provide Specs: _____ Provide Brake Horsepower: _____ Provide Brake Horsepower: _____ <u>Transmission Retarder</u> Yes No <u>N/A at this Time</u>  <input checked="" type="radio"/> No <input checked="" type="radio"/> No <input checked="" type="radio"/> No	\$ <u>N/A</u> \$ <u>N/A</u> \$ <u>N/A</u>  \$ <u>STD</u>
C. Filtration: 1. Oil: Fleetguard LF3000 full flow/bypass oil filter. 2. Fuel: Racor 690RP12 fuel/water separator with thermostatically controlled fuel line heater.	Make: <u>Detroit</u> Model: <u>Full Flow</u> Make: <u>DAVCO</u> Model: <u>482</u>	\$ <u>STD</u> \$ <u>360</u>
D. Engine Air Intake: 1. The air intake shall be under the hood. 2. The air intake shall be positioned so that the air filter can be easily serviced. 3. Air filter dual element dry type. 4. Air inlet restriction indicator located in cab.	<input checked="" type="radio"/> No <input checked="" type="radio"/> No  Make: <u>Donaldson</u> Model: <u>12x8PC</u> <input checked="" type="radio"/> No	\$ <u>STD</u>
E. Exhaust Meeting 2010 EPA Standards: 1. Exhaust discharge shall be on the right side of the vehicle below the dump body cab protector. 2. The exhaust after treatment device shall be vertically mounted behind the cab so as to not obstruct maintenance/repairs underneath the truck.	Trap Make: <u>Detroit</u> Model: <u>1 BOX</u> Location: <u>Under Passenger DOOR</u> <u>Vertical Pipe</u>	\$ <u>520</u>



SPECIFICATION AND PRICING TEMPLATE

	Description of Equipment	Offered Equipment	Cost
	3. Vertical chrome stack and stainless steel exhaust guard curved out 60° elbow. The exhaust stack/60° elbow shall easily fit up to Denver's exhaust gas evacuation system. 4. Exhaust discharge shall be below the dump body cab protector and exhaust gases shall not discolor the dump body. The exhaust turn out shall extend out enough to prevent exhaust noise reverberation into the cab and shall also have approximately 6" of clearance to the headache board.	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No	
F.	Fuel Tank: 1. Capacity 80-gallons 2. The fuel tank shall be frame mounted on left side of chassis.	Fuel Take Volume: <u>80</u> gallons Location: <u>LH</u>	\$ <u>84</u> \$ <u>NIC</u>
G.	Diesel Enhancement Fluid Tank: 1. Location behind fuel tank 2. Size 6-gallons minimum 3. Tank fill opening shall be easily identified as "DEF Fluid Only" and shall not accept the entrance of a standard diesel fuel nozzle.	Location: <u>LH</u> DEF Tank Volume: <u>6</u> gallons <input checked="" type="radio"/> Yes No	\$ <u>STD</u>
H.	Coolant Hoses: 1. Gates "Blue Stripe" hoses 2. Hose clamps constant torque hose clamps.	Make: <u>Gates</u> Type: <u>Blue Stripe</u> <input checked="" type="radio"/> Yes No	\$ <u>STD</u> \$ <u>STD</u>
I.	Fan Clutch: 1. Horton Drive Master fan clutch with automatic fan control. 2. The fan shall operate off of engine coolant and transmission coolant temperature.	Make: <u>Kysor</u> Model: <u>ON/OFF</u> <input checked="" type="radio"/> Yes No	\$ <u>STD</u>
J.	Air compressor: 1. Engine mounted with no belts. 2. Bendix Westinghouse 15.5 cfm minimum.	Make: <u>Bendix</u> Model: <u>BA-921</u> Size: <u>19</u> cfm	\$ <u>STD</u>
K.	Cold weather starting aids on truck engine. 1. Block heater, Phillips "Zero-Start" 120vAC, 1500 Watt, engine coolant temperature controlled to: a. Turn "on" at 40°F engine coolant temperature. b. Turn "off" at 55°F engine coolant temperature. 2. The plug-in station shall have 2 LED indicator lights to: a. Light when plugged into "hot line" to show "hot line is energized." b. Light when engine coolant drops below 40°F. 3. Plug-in shall be mounted under driver's door, protected from mechanical and weather damage. Heater plug shall be a male standard grounded 15 amp rated plug.	Make: <u>Phillips</u> Model: <u>Temro</u> On Temperature: <u>40</u> Off Temperature: <u>55</u> <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No Location: <u>LH Driver Door</u>	\$ <u>600</u> \$ <u>Incl</u> \$ <u>STD</u>

0750A-2012  
SPECIFICATION AND PRICING TEMPLATE

Description of Equipment	Offered Equipment	Cost
4. A decal or information plate shall be provided describing how the system functions. The decal/plate shall be heavy-duty UV protected and capable of withstanding pressure washing and other normal vehicle functions.	<input checked="" type="radio"/> Yes    No	\$ <u>25</u>
5. Cold weather starting assist (no either allowed).	Type: <u>STD</u>	\$ <u>STD</u>

3.3 Transmission and Drivetrain or Approved Equal

Description of Equipment	Offered Equipment	Cost
A. Transmission:	Make: <u>Allison</u> Model: <u>4500 RDS</u>	\$ <u>13,800</u>
1. Allison New World HD4500-RDS-P, wide ratio, 6-speed rated for 1,550 lb/ft torque with the following components:	Speeds: <u>6</u>	
2. Transmission and rear differential gearing shall be optimized for "Best" fuel economy; speed shall not be more than 67 mph at maximum engine rpm.	<input checked="" type="radio"/> Yes    No	
3. Transmission computer unit shall talk with snow fighting computer providing accurate ground speed information for accurate chemical; spread rates.	<input checked="" type="radio"/> Yes    No	\$ <u>42</u>
4. Deep pan transmission sump with "Gold Series" filter kit rated for severe duty of 75,000 miles or 36 months.	<input checked="" type="radio"/> Yes    No	\$ <u>STD</u>
5. Retarder, See Section 3.2.B retarder shall be activated for 1 <sup>st</sup> stage when the driver removes their foot from the throttle pedal (if transmission retarder is purchased).		
6. Transmission retarded control switches dash mounted with easy access for the driver (if provided)	Yes <input checked="" type="radio"/> No	
7. On/Off switch.	Yes <input checked="" type="radio"/> No	
8. High/Low retardation range.	Yes <input checked="" type="radio"/> No	
9. Electric push-button transmission controls dash mounted.	<input checked="" type="radio"/> Yes    No	
10. Transmission interface wiring for Allison MD/HD transmission.	<input checked="" type="radio"/> Yes    No	
11. Allison TranSynd transmission fluid.	Fluid Type: <u>Synthetic</u>	
12. Transmission water-to-oil cooler.	<input checked="" type="radio"/> Yes    No	
13. Magnetic drain plug.	<input checked="" type="radio"/> Yes    No	
	<b>2016 QUAD AXLE Convert Transmission to Eaton FO-18E318B-MXP ULTRASHIFT: -\$3,589</b>	

Reference Nos.:

Vendor/Sub Vendor: Wdy

0750A-2012  
SPECIFICATION AND PRICING TEMPLATE

	Description of Equipment	Offered Equipment	Cost
B.	<b>Power Take Off (PTO)</b> 1. Transmission direct mounted "Hot Shift" Chelsea 890 series with hydraulic pumps direct mounted to Chelsea 890 PTO at rear of the transmission 2. PTO speed limiter shall be connected to the engine computer not to an external overspeed box (EOS). 3. PTO shall efficiently operate all hydraulic systems at engine "low idle" 750 rpm or less. Increasing engine speed above 800 rpm shall not improve hydraulic operations.	Make: _____ Model: _____ <b>Hydraulic PTO Conversion(Front): \$464</b>  Yes    No  Yes    No PTO Idle rpm: _____	\$ _____ \$ _____ \$ _____
C.	<b>Rear Axles:</b> 1. Eaton single reduction, capacity 46,000-lbs. 2. Driver controlled main power divider locking differential. 3. Oil pump. 4. Axle temperature sensor. 5. Axle ratio for 67-mph top speed in 6th gear at maximum engine rpm for "Best" Fuel Economy. 6. Oil seals, Union 76 Triton EP 75W-90 synthetic gear lubricant. 7. Magnetic drain plug.	Make: <u>Meritor</u> Model: <u>RT 46 160P</u> Gear ratio: <u>5.63</u> <input checked="" type="checkbox"/> Yes    No <input checked="" type="checkbox"/> Yes    No Top Speed: <u>67</u> mph level Axle Ratio: <u>5.63</u> <input checked="" type="checkbox"/> Yes    No <input checked="" type="checkbox"/> Yes    No	\$ <u>2100</u>
D.	<b>Front Axle:</b> 1. Eaton, capacity 20,000-lbs. minimum 2. Oil seals and Union 76 Triton EP 75W-90 synthetic gear lubricant.	Make: <u>Detroit</u> Model: <u>DA F 20</u> Capacity: <u>20,000</u>	\$ <u>2300</u>
E.	<b>Springs:</b> 1. Front leaf with graphite impregnated spring pin bushings. Front: capacity 20,000-lbs. minimum with shock absorbers. 2. Rear Hendrickson RTE-463 walking-beam, multi-leaf spring system, dual spring rate.  a. The leaf spring suspension shall utilize an extended leaf/multi-hanger design to allow for smoother ride when the truck is empty or lightly loaded and full suspension when fully loaded. b. Transverse rods for better cornering c. Rear capacity 46,000-lbs minimum d. Suspension shall have inboard mounted HD shock absorbers.	Make: <u>SEE</u> Model: <u>APPENDIX 2</u> Capacity _____ - lbs Make: _____ Model: _____ Capacity: _____ - lbs Ride Height: _____ Axle Spacing: _____ inches Yes    No  Yes    No Capacity: _____ lbs Yes    No	\$ _____ \$ _____ \$ _____ \$ _____ \$ _____

Mandatory for Pre-Qualification and due as required in the Revised Schedule of Events (Specifications Due Date) indicated in addenda #2 document.

3.3	Description of Equipment	Offered Equipment	Cost
E.	<p>Springs:</p> <ol style="list-style-type: none"> <li>1. Front leaf with graphite impregnated spring pin bushings. Front: capacity 20,000-lbs. minimum with shock absorbers.</li>   <li>2. Rear Suspension:                             <ol style="list-style-type: none"> <li>a. Suspension shall be designed for high-articulation for transversing bumps, ridges and washboard without bottoming out the suspension even during cross articulation</li> <li>b. The suspension shall be 2-stage with a softer spring rate for unloaded/light load operation and a full heavy suspension for operating at maximum load.</li> <li>c. The suspension shall have a combination elastomer rubber center bearing and parabolic tapered leaf springs to support and control the axle movements.</li> <li>d. The suspension shall use transverse and torque rods for differential positioning and controlling axle wind-up.</li> <li>e. Rear suspension capacity 46,000-lbs minimum</li> <li>f. Suspension shall have inboard heavy-duty shock absorbers                                     <ol style="list-style-type: none"> <li>a. If drum brakes are provided the brake chambers shall be forward mounted to provide asphalt paver clearance.</li> </ol> </li> </ol> </li> </ol>	<p>Make: <u>FTL</u> Model: _____  <u>Flat leaf</u>                      Capacity: <u>20,000</u> - lbs</p> <p>Make: <u>Hendrickson</u> Model: <u>Haulmax</u></p> <p>Excellent Articulation for Intended Purpose/Application: <input checked="" type="radio"/> Yes No                      Suspension 2-Stage: <input checked="" type="radio"/> Yes No</p> <p>Describe Suspension Design: <u>Rubber Center Bearing Tapered leaf Springs</u></p> <p>Type of Axle Locators Used: <u>Ultra ROPS</u></p> <hr/> <p>Weight Capacity: <u>46,000</u> lbs                      HD Shock Absorbers: <input checked="" type="radio"/> Yes No</p> <p>If Drum Brakes Brake Chamber Location: _____</p>	<p>\$ <u>N/C</u></p> <p>\$ <u>2900</u></p>

*Wj*

SPECIFICATION AND PRICING TEMPLATE

	Description of Equipment	Offered Equipment	Cost
F.	Brakes: 1. Bendix, 17" disc front, model ADB22x extended service brakes with non-asbestos brake pads. 2. Bendix, 17" disc rear, model ADB225 extended service brakes with non-asbestos brake pads. 3. Brake chambers type 2824, size 24 chamber. 4. All brake components shall provide adequate clearance for asphalt/paver operations	Front Make: <u>Bendix</u> Model: <u>ADB 22x-v</u> Disc Size: <u>17</u> in Rear Make: <u>Bendix</u> Model: <u>ADB 22x-v</u> Front Chamber: <u>24</u> Rear Chamber: <u>24</u> <input checked="" type="radio"/> Yes No	\$ <u>2012</u>
G.	Anti-Lock Brake System / Automatic Traction Control system: 1. Anti-Lock Brake System (ABS): Eaton 6S/6M with ATC, 6-channel with (6 sensors & 6 modulators) and 5-9 psi crack pressure relay valve. System shall control all wheels/axles for safe braking. 2. Automatic Traction Control (ATC) shall work in conjunction with the Eaton ABS brake system in low traction situations limiting torque to least loaded tire allowing most loaded tire to receive torque and pull the vehicle. The ATC system in conjunction with the Interaxle Driveline Lock shall provide traction control very similar to the Driver Controlled Differential Lock system. 3. Interaxle Driveline Lock (IADL) to lock front and rear drive axles together. The interaxle differential lock shall be automatically locked via the ATC or manually locked by the driver. The IADL switch shall activate a flashing LED warning light. 4. Air lines shall be color-coded nylon type.	Make: <u>WABCO</u> Model: <u>4s/4m</u> <u>with ATC</u> <input checked="" type="radio"/> Yes No  <input checked="" type="radio"/> Yes No  <input checked="" type="radio"/> Yes No	\$ <u>131</u>  \$ <u>1 inch</u>  \$ <u>STD</u>  \$ <u>STD</u>
H.	Air Dryer: (No Approved Equal) 1. Bendix AD-IP with heated steel reservoir, automatic moisture ejector and cable operated air tank drain valves accessible from outside of vehicle. No Approved Equals. 2. Air dryer shall be installed on the outside of the frame rail in a location that is easy access and does not exceed 15-minutes to service unit.	Make: <u>Bendix</u> Model: <u>AD-IP</u>  Location: <u>LH Rail</u>	\$ <u>N/c</u>  \$ <u>N/c</u>
I.	Driveline: 1. Heavy-Duty, 2-piece, 2. Eaton Permalube type U-joints.	Make: <u>Meritor</u> Model: <u>Extended</u> <u>hub</u>	\$ <u>N/c</u>
J.	Power Steering: 1. TRW 2. Reservoir 2-qt minimum.	Make: <u>TRW</u> Model: <u>THP60 w/</u> <u>RCH 45</u>	\$ <u>N/c</u>

## SPECIFICATION AND PRICING TEMPLATE

## 3.4 Electrical System or Approved Equal

	Description of Equipment	Offered Equipment	Cost
A.	Alternator: 1. Delco-Remy 22SI heavy duty, internally regulated, output 160-amp minimum.	Make: <u>Delco</u> Model: <u>28SI</u> Output: <u>160</u> amps	\$ <u>STD</u>
B.	Batteries: 1. Batteries, Group 31 with a total CCA of 1,950 minimum.  2. Battery location frame mounted right side. 3. Battery shut-off switch easy to see and access. 4. Jump start provision easy to access. 5. Battery cables (00) stranded copper minimum. 6. Battery box enclosure shall be steel or aluminum (no plastic)	Make: <u>Alliance</u> Model: <u>1231</u> Quantity: <u>3</u> Location: <u>2A under cab</u> <input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No Size: <u>00</u> Material: <u>Steel</u>	\$ <u>STD</u>      \$ <u>170</u>
C.	Circuit Protection: 1. Circuit breakers with manual reset, no fuses. 2. Circuit breaker panel shall be easy to access. 3. Circuit breaker panel shall be clearly labeled for easy identification.	Circuit Protection Type: <u>solid state</u> <input checked="" type="checkbox"/> Yes No <u>circuit protection and fuses</u>	\$ <u>STD</u>
D.	Wiring: 1. Wiring shall be color coded with hot stamped wire numbers. 2. All wiring shall be run in sealed wiring looms to reduce corrosion from magnesium chloride products.	Color coded: <input checked="" type="checkbox"/> Yes No Hot Stamped: <input checked="" type="checkbox"/> Yes No Wiring sealed: <input checked="" type="checkbox"/> Yes No	\$ <u>STD</u>
E.	Body Builder Junction Box: 1. Body builder's junction box shall be provided in cab to prevent corrosion from magnesium chloride. 2. Terminal shall be marked for easy identification.	Location: <u>Firewall</u> <input checked="" type="checkbox"/> Yes No	\$ <u>41</u>
F.	Back Up Alarm: 1. The back up alarm shall be 112 dB, SAE type B, fully sealed, back-up alarm system with: 2. Wired into vehicle's backup light system using OEM plug-in adapter. 3. The alarm shall be mounted out of the vehicle's rear wheel splash area and shall be shielded.	dBa rating: <u>112</u> <input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No	\$ <u>73</u>  \$ <u>STD</u>  \$ <u>STD</u>

SPECIFICATION AND PRICING TEMPLATE

	Description of Equipment	Offered Equipment	Cost
G.	Lights: (No Approved Equals) 1. Halogen sealed beam headlights, 12v. 2. Daytime running lights. 3. Wiring shall be sealed modular plug-in type. 4. All lights shall be Truck-Lite "Lifetime Warranty" 12vDC, LED type, flush mount, sealed lexan body, grommet insulated with Fit' N Forget multi-pin plugs where possible. 5. Integral Stop/Turn/Tail/ lights mounted in the rear corner post of the dump body model Super 44 P/N 44302R or model 60 P/N 60250R. 6. Back up lights Truck-Lite LED, flush mount, sealed lexan body, grommet insulated, multi-pin units model 44 P/N 44206C. 7. Marker lights Truck-Lite LED 3 per side model 10 P/N 10250R or 10250Y or model.30 P/N 30250R or 30250Y. 8. Rear ID bar Truck-Lite LED model 35 P/N 35741R or 35740R. 9. License plate light, Truck-Lite model 15 P/N 15040	<input checked="" type="radio"/> Yes    No <input checked="" type="radio"/> Yes    No <input checked="" type="radio"/> Yes    No Make: <u>FTL</u> Model: <u>LED</u>  Make: <u>FTL</u> Model: <u>LED</u>  Make: <u>FTL</u> Model: <u>LED</u>  Make: <u>FTL</u> Model: <u>LED</u>  Make: <u>FTL</u> Model: <u>LED</u>  Make: <u>FTL</u> Model: <u>LED</u>	\$ <u>STD</u> \$ <u>8</u> \$ <u>STD</u>  \$ <u>85</u>  \$ <u>inck</u>  \$ <u>inck</u>  \$ <u>inck</u>  \$ <u>inck</u>

3.5 Cooling System or Approved Equal

	Description of Equipment	Offered Equipment	Cost
A.	Cooling system with coolant recovery tank capable of maintaining engine manufacturer's recommended operating temperatures at an elevation of 6,800' in 120° F low humidity ambient conditions shall be provided.	<input checked="" type="radio"/> Yes    No  Protection Temperature: <u>-34</u>	\$ <u>STD</u>  \$ <u>STD</u>
B.	Coolant protection shall be -34° F.	Make: <u>Detroit</u> Model: <u>DDWF</u>	\$ <u>STD</u>
C.	Fleetguard coolant filter WF2071.		\$ <u>STD</u>

SPECIFICATION AND PRICING TEMPLATE

3.6	Tires and Wheels or Approved Equal	Offered Equipment	Cost
A.	<p>Description of Equipment</p> <p>Tires:</p> <ol style="list-style-type: none"> <li>Tires 315/80R22.5, tubeless, 20-ply, load range L.</li> <li>Front: Michelin XZUS, Steer Tires.</li> <li>Rear dual: Michelin XZUS, Steer Tires</li> </ol>	<p>Size: <u>31580R22.5 20</u></p> <p>Make: <u>Michelin</u> Model: <u>XZU-S2</u></p> <p>Make: <u>Michelin</u> Model: <u>XZU-S2</u></p>	<p>\$ <u>1240</u></p> <p>\$ <u>4900</u></p> <p>\$ <u>644</u></p>
B.	<p>Wheels:</p> <ol style="list-style-type: none"> <li>Disc, 10-hole, Hub piloted type, Single nut, Meets ISO Standard 4107.</li> <li>White powder epoxy coated finish.</li> <li>Front 22.5" x 9"</li> <li>Rear 22.5" x 9"</li> </ol>	<p>Make: <u>Hayes</u> Model: <u>hemmerz</u></p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Size: <u>22.5</u> x <u>9</u></p> <p>Size: <u>22.5</u> x <u>9</u></p>	

3.7	Interior or Approved Equal	Offered Equipment	Cost
A.	<p>Steering Controls Left Side:</p> <ol style="list-style-type: none"> <li>All critical controls required to operate the vehicle shall be easy to reach and operate from left seat.</li> <li>Tilt and telescoping steering wheel to accommodate operators with large variations in sizes.</li> </ol>	<p>Make: <u>FTL</u> Model: _____</p> <p>Tilt: <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Telescoping: <input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p>\$ <u>STD</u></p> <p>\$ <u>240</u></p> <p>\$ <u>Inch</u></p>
B.	<p>Cab Interior Design:</p> <ol style="list-style-type: none"> <li>The cab shall be configured to be ergonomic, comfortable and with ample room to minimize operator fatigue and discomfort. The City has operators of varying statures and adjustable seating and controls will increase safety and minimize on-the-job related physical problems and fatigue.</li> <li>The interior design and seat position shall provide for installation of snowplow joystick and controls in an ergonomic and functional design.</li> </ol>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>If "No" Explain: _____</p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>If "No" Explain: _____</p>	
C.	<p>Required Submittals with Bid:</p> <ol style="list-style-type: none"> <li>Requested information must be submitted with bid for evaluation. Failure to submit the requested information may make bid non-responsive.</li> <li>Interior left side dimensions measured:                             <ol style="list-style-type: none"> <li>Belly Room: seat back to steering wheel.</li> <li>Leg Room: seat front edge to brake pedal.</li> <li>Head Room: seat cushion to ceiling.</li> <li>Seat fore/aft travel:</li> </ol> </li> </ol>	<p>Provide Materials: _____</p> <p>Seat full forward: <u>16</u>" Seat full back: <u>25</u>"</p> <p>Seat full forward: <u>13</u>" Seat full back: <u>22</u>"</p> <p>Seat full lowered: <u>43</u>" Seat full raised: <u>39</u>"</p> <p>Travel: <u>9</u>"</p>	



SPECIFICATION AND PRICING TEMPLATE

Description of Equipment	Offered Equipment	Cost
e. Seat height travel: f. Steering Wheel "Knuckle Clearance": distance to closest object g. Floor Height: measured ground to cab floor. h. Cab Step Heights: measured from ground. i. Steering Wheel Tilt and Telescoping: 3. Location of the transmission shifter:	Travel: <u>4</u> " Knuckle Clearance: <u>8</u> " Height: <u>52</u> " 1 <sup>st</sup> Step: <u>18</u> " 2 <sup>nd</sup> Step: <u>36</u> " Tilt: <u>20</u> ° Telescoping distance: <u>3</u> "	
D. Seats: 1. Driver's seats shall be air suspension Bostrom, Talladega 910 high back driver's seat, gray vinyl with gray cloth insert and arm rests. 2. Passengers seat Bostrom high back non-suspension seat with gray vinyl.	Make: <u>Bostrom</u> Model: <u>T910</u> Arm Rest: <input checked="" type="checkbox"/> Yes No Make: <u>Bostrom</u> Model: <u>NON-SUSP</u>	\$ <u>170</u> \$ <u>STD</u>
E. Upfitter's Switch Panel: 1. The vehicle manufacturer shall provide for the snowplow and salt/sander body manufacturer an upfitter's switch panel with a minimum of 10 switches for sundries equipment control switches. 2. The panel location shall be in an ergonomic location and shall not require more than 30° head movement and be within easy reach of driver's of various sizes and physiques. 3. The switch panel shall have permanently labeled and lighted rocker switches for all optional sundries equipment and lights etc.	<input checked="" type="checkbox"/> Yes No Number of Switches: <u>10</u> <input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No 2016 Reduced to 6: \$168 Net Reduction: -\$112	<del>\$ <u>280</u></del> \$168 -\$112
F. Instrumentation: 1. Instrumentation shall include speedometer, engine hourmeter, tachometer, voltmeter, coolant temperature, oil temperature, oil pressure, transmission oil temperature, fuel level, front/rear differential temperature gauges and air pressure with low air-pressure alarms (light, audible).	<input checked="" type="checkbox"/> Yes No No Explain: _____	\$ <u>STD</u>
G. Floor Covering: 1. Floor covering shall be heavy-duty black rubber/vinyl flooring.	Flooring Type: <u>Heavy Duty Black Rubber</u>	\$ <u>STD</u>
H. Air Conditioning: 1. Factory installed cab R134A air conditioning 2. Cab shall be insulated to include floor, firewall, roof and walls.	<input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No	\$ <u>STD</u>
I. Windshield Wipers: 1. Wipers 2-speed self parking. 2. Intermittent wiper mode.	Speeds: <u>2</u> Self Park: <input checked="" type="checkbox"/> Yes No <input checked="" type="checkbox"/> Yes No	\$ <u>STD</u>

0750A-2012  
SPECIFICATION AND PRICING TEMPLATE

	Description of Equipment	Offered Equipment	Cost
J.	Radio: 1. Radio AM/FM stereo with speaker balance. 2. Speakers two required.	Make: <u>Panasonic</u> Model: <u>Am / Fm</u> <input checked="" type="radio"/> Yes No	\$ <u>150</u>
K.	Fire extinguisher: 1. Extinguisher ABC, 5-lb. dry type rechargeable 2. Installed in cab. 3. Location labeled with 1" letters on outside of the cab.	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No	\$ <u>51</u>
L.	Grab Handles: 1. One each on exterior of cab for operator and passenger assist and one interior for passenger. 2. Grab handles shall provide adequate clearance to other objects to provide easy access and clearance to prevent pinch or other hazards.	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No	\$ <u>21</u>

3.8 Exterior or Approved Equal:

	Description of Equipment	Offered Equipment	Cost
A.	Paint: 1. Polyurethane paint equal to DuPont Imron 5000, "Bright White", applied following manufacture's procedures to include: 2. Color top coat, 2 coats, applied to all non-stainless steel components following manufactures procedures. 3. Removing all mill scale and slag. 4. Variprime 615S self-etching primer or approved equal. 5. Treating bare metal with manufacturer's conditioners and conversion coatings or approved equal.	Make: <u>Emron</u> Type: <u>6000</u> Color: <u>White</u> <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No	\$ <u>STD</u>
B.	Engine Hood: 1. Engine fully accessible and serviceable, 2. Front hood and fenders shall easily tilt forward for access.	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No	\$ <u>STD</u>
C.	Cab Design: 1. Cab steel or aluminum heavy-duty body, Construction Type 2. Air suspension 3. The hood shall have a 10" minimum slope for improved driver visibility. 4. Molded 1-piece fiberglass hood and fenders with painted hood and stationary mounted grill. 5. Rubber fender extensions. 6. Exterior sun visor full width. 7. Right lower door window. 8. Electric windows left and right sides.	Cab Material: <u>Aluminum</u> <input checked="" type="radio"/> Yes No Hood Slope: <u>10</u> inches <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No	\$ <u>STD</u> \$ <u>STD</u> \$ <u>STD</u> \$ <u>STD</u> \$ <u>48</u> \$ <u>122</u> \$ <u>140</u> \$ <u>110</u>

SPECIFICATION AND PRICING TEMPLATE

	<p>9. Door and ignition keyed the same.</p>	<p><input checked="" type="radio"/> Yes    No</p>	
<p>D.</p>	<p>Mirrors: "No Approved Equal"          1. Rear view mirrors Moto Mirror Model 7-5400 "Flat Back Traditional" 7" x 16" motor head, remote, heated, stainless steel left and right mounted on the cab.          2. Convex 8" stainless steel mirrors mounted under primary mirrors.          3. Right hand down mirror shall also be provided.          4. Convex mirror on right front fender to show small objects along the right side of the truck.</p>	<p>Make: <u>West Coast</u> Model: <u>Dual Axis</u>  <u>HTD / Remote</u>          Make: <u>FTL</u> Model: <u>8"</u>          Provide Mirror Width: <u>102</u>  <input checked="" type="radio"/> Yes    No</p>	<p>\$ <u>240</u></p>
<p>E.</p>	<p>Bumper Guides:          1. Front outer bumper guides steel chrome 30" high with top indicator light'          2. The bumper guides shall not interfere with the opening and closing of the tilt hood.</p>	<p>Make: <u>FTL</u> Model: <u>lighted</u>  <input checked="" type="radio"/> Yes    No</p>	<p><del>\$ 260</del>          REMOVED FOR 2016</p>
<p>F.</p>	<p>Air Horns:          1. Dual Hadley 26" air horns with shields          2. Mounted on top left side of cab.</p>	<p>Make: <u>Hadley</u> Model: <u>26"</u>          Location: <u>Top of cab LH</u></p>	<p>\$ <u>47</u></p>
<p>G.</p>	<p>Undercoating:          1. A protective non-asphaltic base undercoat          2. Undercoating shall be applied to all exposed undercarriage parts and components, which are subject to corrosion.</p>	<p>Brand: _____ Type: _____          Yes    No</p>	<p>\$ _____</p>

0750A-2012  
SPECIFICATION AND PRICING TEMPLATE

VEHICLE SUB TOTAL COST | \$ 117,336

**3.9 Optional Equipment**

Do not include Optional Equipment in the total price of the vehicle; however an equipment price must be provided. The City will determine if the equipment is to be purchased.

	Description of Equipment	Offered Equipment	Cost
A.	Optional Rear Air Suspension: 1. Hendrickson Tuf-Trac rear Multi-Leaf HAS460-55 4-air bag air-ride spring system with 9.5" ride height and inboard mounted shock absorbers. Rear: capacity 46,000-lbs. Minimum.	Make: <u>FTL</u> Model: <u>TuffTRAC</u> Ride Height: <u>12.8</u> inches	\$ <u>N/A</u>
B.	Spare Tire and Wheel: 1. Tire and wheel assembly: 1 per vehicle. 2. Tire: Michelin XZUS, Steer Tire. 3. Wheel: Size 22.5" x 9", disc, 10-hole, hub piloted type, single nut, meeting ISO Standard 4107. "White" powder epoxy coated finish.	Make: _____ Model: _____ Make: _____ Model: _____	\$ <u>1396</u>
C.	Optional Undercoating: 1. Provide additional undercoating choices over and beyond the basic factory OE undercoating. 2. Include any additional warranties that are applied if the Optional Undercoating is selected. 3. Provide benefits of the optional undercoating over and beyond the "Standard Factory" undercoating.	Make: _____ Model: _____ Type: _____ Additional Warranties: _____ Benefits: _____	\$ <u>N/A</u>
D.	Zonar System (No Approved Equals) The Zonar system shall be the model EVIR-GPS-GSM (Electronic vehicle information reports- global position system- global systems mobile communications) and provide the following functions minimum: 1. The system shall be fully compatible with and fully interface with: a. CCG Faster fleet maintenance software b. Kronos time keeping system for reporting employee data 2. Webb based reporting. 3. The system shall provide the following functions: a. Ties the operator to the vehicle. b. Pre and Post trip vehicle inspection information and compliance. c. Send inspection information to Fleet Maintenance for an automatic "work order" generation. d. Track vehicle time out of the yard, time on route, and return to yard time. e. Tracks engine idle time.	Make: <u>Zonav</u> Model: <u>EVIR-GPS-GSM</u>  <input checked="" type="radio"/> Yes    No <input checked="" type="radio"/> Yes    No <input checked="" type="radio"/> Yes    No  <input checked="" type="radio"/> Yes    No <input checked="" type="radio"/> Yes    No  <input checked="" type="radio"/> Yes    No <input checked="" type="radio"/> Yes    No  <input checked="" type="radio"/> Yes    No <input checked="" type="radio"/> Yes    No	\$ <u>950</u>  \$ <u>incl</u> \$ <u>incl</u> \$ <u>incl</u>  \$ <u>incl</u> \$ <u>incl</u>  \$ <u>incl</u> \$ <u>incl</u>

**SPECIFICATION AND PRICING TEMPLATE**

	<p>f. Monitors route pick-ups/work stops, show the vehicles route and work stops on a real time basis.</p> <p>g. Uses the City's own maps of Denver area.</p> <p>h. Captures meter readings (odometer, engine hours) reports for PM scheduling.</p> <p>i. Has five (5) additional electronic inputs 8 to 30 vDC for monitoring and reporting vehicle functions and information.</p> <p>4. The system shall be fully contained in an injection molded, impact resistant plastic case that is water -tite and insulated.</p> <p>5. The system shall have passed SAE J-1455 vibration test</p>	<p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p>	<p>\$ <u>incl</u></p> <p>\$ <u>incl</u></p> <p>\$ <u>incl</u></p> <p>\$ <u>incl</u></p> <p>\$ <u>incl</u></p> <p>\$ <u>incl</u></p>
<p>E.</p>	<p>Inspection Trip:</p> <p>1. The City and County of Denver reserves the right to inspect at the cab and chassis during the construction of the first (1st) article prior to paint and delivery.</p> <p>2. When the fabricating plant is located further than 200 road-miles from the City and County of Denver, the bidder shall include in the bid price all travel expenses to the manufacturing plant for the inspection.</p> <p>3. The City may select to send 4 representatives to inspect the 1<sup>st</sup> article. The provided costs shall be based on one (1) person per day and the City will determine how many representatives the inspection will require and how many days the inspection will require.</p> <p>4. Inspection Trip Costs to include:</p> <p>a. Air fare per person:</p> <p>b. Surface transportation costs:</p> <p>c. Lodging per person per day:</p> <p>d. Meals per person per day:</p> <p>5. Total cost per person for 1st article inspection trip:</p>	<p>Provide information:</p> <p>Distance to fabrication plant: <u>1550</u> miles</p> <p>Plant Location: <u>MT Holly, N.C.</u></p> <p>Air Fare: \$ <u>450</u>, Airline: <u>TBD</u></p> <p>Surface Transportation: \$ <u>20</u>, Mode: <u>shuttle</u></p> <p>Lodging / day: \$ <u>100</u></p> <p>Hotel: <u>TBD</u></p> <p>Meals / day: \$ <u>50</u></p>	<p>\$ <u>450</u></p> <p>\$ <u>20</u></p> <p>\$ <u>100</u></p> <p>\$ <u>50</u></p> <p>\$ <u>620</u></p>

## SPECIFICATION AND PRICING TEMPLATE

## 5.0 Manuals/Equipment

Item	Description of Equipment	Offered Equipment	Cost
<b>Training Tape</b>	One VHS tape, DVD or CD demonstrating and explaining the safe and proper use of the vehicle/equipment. 1. Cab and chassis.	Yes <input checked="" type="radio"/> No	\$
<b>Operators Manual Paper</b>	One book per vehicle/equipment with "safe equipment operation" section for each component. 1. Cab and Chassis.		\$ <u>N/C</u>
<b>Service/ Maintenance Manual Paper</b>	Two complete sets per Contract (not per vehicle); binder required, 1. Manuals shall be provided for: A. Cab and Chassis 2. Manuals shall include complete and detailed information for maintenance of the equipment, including general information, specifications, troubleshooting guide, lubrication and required adjustments. 3. The hydraulic and electrical sections of the manuals shall be provided in a separate electrical/hydraulic binder. Both the hydraulic and electrical circuits shall have separate color coded schematics for each equipment function to show the flow of both electrical current and hydraulic oil.	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No  Yes <input checked="" type="radio"/> No	\$ <u>500</u>
<b>Service/ Maintenance Manual on CD rom or DVD</b>	One complete set; per Contract (not per vehicle) 1. Manuals shall be provided for: A. Cab and Chassis 2. Manuals shall include complete and detailed information for maintenance of the equipment, including general information, specifications, troubleshooting guide, lubrication and required adjustments. 3. The hydraulic and electrical sections of the manuals shall be provided in a separate electrical/hydraulic binder. Both the hydraulic and electrical circuits shall have separate color coded schematics for each equipment function to show the flow of both electrical current and hydraulic oil.	<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No  Yes <input checked="" type="radio"/> No	\$ <u>500</u>

**SPECIFICATION AND PRICING TEMPLATE**

	<p>4. New CD roms or DVDs shall be provided when information is updated, superseded or changed.</p>	<p><input checked="" type="radio"/> Yes    No</p>	<p>\$ <u>500</u></p>
<p><b>Service/ Maintenance Manual on Internet Access, or Other Electronic Media</b></p>	<p>One complete set; per Contract (not per vehicle)</p> <p>1. Vendor shall provide access to the site for the length of time that the City owns the vehicle/equipment at a one time up front cost to the City.</p> <p>2. Internet information shall include complete and detailed information for maintenance of the equipment, including general information, specifications, troubleshooting guide, lubrication and required adjustments.</p> <p>3. The hydraulic and electrical sections of the manuals shall be provided in a separate electrical/hydraulic binder. Both the hydraulic and electrical circuits shall have separate color coded schematics for each equipment function to show the flow of both electrical current and hydraulic oil.</p>	<p><input checked="" type="radio"/> Yes    No</p> <p><input checked="" type="radio"/> Yes    No If other Specify: _____</p> <p>Yes    <input checked="" type="radio"/> No</p>	<p>\$ <u>500</u></p>
<p><b>Parts Manual Paper</b></p>	<p>Two complete sets, per Contract (not per vehicle) binders required,</p> <p>1. Manuals shall be provided for: A. Cab and Chassis</p> <p>2. Illustrated parts book shall be furnished containing data so that part numbers can be readily found for each system.</p>	<p><input checked="" type="radio"/> Yes    No</p> <p><input checked="" type="radio"/> Yes    No</p>	<p>\$ <u>500</u></p>
<p><b>Parts Manual on CD rom or DVD</b></p>	<p>One complete set, per Contract (not per vehicle) illustrated parts book shall be furnished containing data so that part numbers can be readily found for each system.</p> <p>1. Information shall be provided for: A. Cab and chassis</p> <p>2. Parts manuals shall include complete and detailed information for replacement parts for the equipment, including general information, specifications ordering guide lines and superseded parts information.</p> <p>3. New CD roms or DVDs shall be provided when information is updated, superseded or</p>	<p><input checked="" type="radio"/> Yes    No</p> <p><input checked="" type="radio"/> Yes    No</p> <p><input checked="" type="radio"/> Yes    No</p>	<p>\$ <u>500</u></p>



SPECIFICATION AND PRICING TEMPLATE

<p><b>Parts Manual on Internet Access, or Other Electronic Media</b></p>	<p>changed. One complete subscription; per Contract (not per vehicle) 1. Internet information shall allow the City 24 hour 7 days/week including holidays access from its main maintenance facility and all its satellite maintenance facilities. 2. Internet information shall include complete and detailed information for parts for the: A. Cab and Chassis 3. Internet information shall cover vehicle/equipment, shall include general parts information, parts specifications, ordering guide lines and superseded parts information. 4. Vendor shall provide access to the site for the length of time that the City owns the vehicle/equipment at a one time up front cost to the City. 5. Parts manuals shall include complete and detailed information for replacement parts for the equipment, including general information, specifications ordering guide lines and superseded parts information.</p>	<p>Access Information: 7 days/week including holidays <input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p><input checked="" type="radio"/> Yes No</p> <p>If other Specify: _____</p> <p>_____</p> <p><input checked="" type="radio"/> Yes No</p>	<p>\$ <u>N/C</u></p>
<p><b>New Equipment Check-in Form:</b></p>	<p>The successful vendor shall complete the City's "New Equipment Check-in Form" completely and accurately with all requested information.</p>	<p>_____</p> <p>_____</p>	<p>\$ <u>N/C</u></p>



0750A-2012  
SPECIFICATION AND PRICING TEMPLATE

5.1 **Operator and Mechanics Training**

Item	Description of Equipment	Offered Equipment	Cost
<b>On Site Equipment Manufacturers Training</b>	On site the vendor shall insure that the equipment manufacturers training representative, after delivery of the equipment Contacts Fleet Maintenances training manager to coordinate equipment training.	<u>ON SITE WALKAROUND</u>	\$ <u>N/C</u>
<b>Fleet Maintenance Training Manager</b>	Mr. Felix Espinosa, Telephone: 720.865.3912 Contact time: 8:00 am to 3:00 pm M-F		
<b>Training Requirements</b>	Training shall consist of factory training materials, classroom and actual field training on the equipment for the equipment operators and supervisors.	<u>Training Facility @ Dealership</u>	\$ <u>N/C</u>
<b>On Site Mechanics Training</b>	On site mechanics training shall be 2 classes, approximately 8 hours, 2 shifts total provided at City facilities. The training shall cover maintenance and service procedures, trouble shooting and use of manuals.	<u>AVAILABLE</u>	\$ <u>1,000</u>

6.0 **Repair Parts Delivery-See Main Bid Document Section B.4 Line 6**

## SPECIFICATION AND PRICING TEMPLATE

## 7.0 Warranty

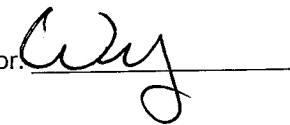
## 7.1 General Warranty Provisions

WARRANTY (Table 1) Class 7 & 8 Vehicles		Complies (Y or N/A)
A.	Express warranty is to be a minimum of 12 months on the vehicle/equipment. The standard factory warranty plan shall be provided as an attachment to your bid proposal	Y
B.	The Warranty is to include at no cost to the City of Denver, all parts and labor, and no charge for work performed at the vendors facility	Y
C.	Warranty shall start when the City places the vehicle into service <b>NOT</b> on the delivery date. Taking an exception may make bid non compliant.	Y
D.	Warranty plans shall consist of the total unit and be broken out to a separate plan for each warranty item if applicable, such as engine warranty plan, transmission warranty plan, electrical, etc.	Y
E.	Options listed shall be bid and provided as factory installed under the terms of the full factory-backed warranty. This includes, but is not limited to: air conditioning, radios, cruise control, bumpers, towing packages etc. Dealer-installed options will not be permitted unless pre-approved by the City in writing and, where applicable, indicated on bid sheet as a "dealer installed" non-factory item.	Y
F.	Bidder will be responsible for warranty repair of all installed options/auxiliary equipment included in the bid that has a standard warranty that is less than the standard warranty for the base vehicle/equipment	Y
G.	Bidder shall use a single, local factory authorized dealership that will accomplish or coordinate required warranty work. The dealership must have a minimum of 1-year experience as a factory authorized vendor for like equipment being bid. Warranty parts shall be available and supplied within 24 hours	Y
H.	If applicable, bidder shall provide a plan for the City to be reimbursed if the work can be done by the City on site. The current shop rate is \$71.00/hour, not to exceed \$85.00/hour. (Enter a response of N/A if not available)	N/A
I.	The bidder shall respond to request for warranty assistance within twenty-four (24) hours.	Y
J.	Warranty work shall be accomplished within an appropriate length of time (generally less than 3 working days for everything other than major component repair such as a transmission rebuild) and shall be coordinated with an authorized City representative	Y
K.	During the entire warranty period, if the unit requires transportation to a repair facility, the vendor/sub-vendors shall be responsible for all transportation at "NO COST" to the City and County of Denver. This includes transporting the unit back to the City's domicile location after repairs are complete. If an alternate is bid, charges to the City of Denver shall be listed (e.g. mileage, travel, labor, etc.). Even if an alternate is bid, in NO CIRCUMSTANCES will the City and County of Denver be responsible for transporting a unit greater than 25 miles from the center of Denver. For purposes of these warranty provisions, the center of Denver is defined as the City and County Building located on the corner of Colfax and Bannock Street.	Y

Reference Nos.

24

Vendor/Sub Vendor

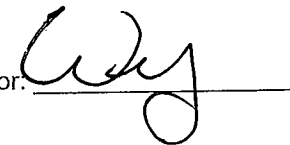


## SPECIFICATION AND PRICING TEMPLATE

L.	The item(s) procured by the City pursuant to this Bid Proposal shall, in addition to being subject to the express warranties referenced above, be subject to all implied warranties arising by operation of law under State of Colorado and Federal law, including but not limited to the implied warranty of merchantability and, to the extent applicable, the implied warranty of fitness for a particular purpose arising under the Colorado Uniform Commercial Code, Title 4, Colorado Revised Statutes. The bidder shall in no event attempt to limit or disclaim any of such implied warranties under this Bid Proposal, and any attempt to do so will render the bidder's bid non-responsive under this Bid Proposal.	Y
M.	This warranty in Table 1 and Table 2, is IN ADDITION to factory warranties on the vehicle and components	

## 7.2 Fleet Defects

WARRANTY - (Table 2) Fleet Defect Clause, Class 7 & 8 Vehicles	
A.	<b>Definition:</b> If during the warranty period, thirty percent (30%) of the total number of units delivered have the same part(s) and/or components failure requiring replacement and/or modifications, caused by defects in Design, Testing, Material, and/or Workmanship, then this "Fleet Defect Clause" goes into effect.
B.	<b>Remedy:</b> Following notification of a Fleet Defect, the vendor shall develop and implement a plan that either reengineers, modifies, or replaces the defective parts/ systems, such that the identified problem is cured and the operation of the vehicle/equipment is not altered. When alterations are required to cure the defect, those alterations that change or modify the original bid specifications must be approved by the City and County of Denver prior to execution. The vendor will pay for all necessary labor and materials to repair, modify, and/or "update" all vehicles/units in this group. The vendor shall also propose a work schedule that is mutually agreed upon by the City of Denver that corrects the fleet deficiency within 30 days or a mutual agreed upon schedule.
C.	<b>Exceptions:</b> Fleet defects will not apply to minor aftermarket accessories specified by the City of Denver and installed per instructions/specifications. Examples include: toolboxes, spotlights, bed-liners, etc.
D.	<b>Mitigation:</b> Should the vendor become non responsive to the City's notification of a Fleet Defect, the City may employ several options. (1) After notifying the vendor in writing of The City's intent to mitigate its circumstances, the City may chose to perform its own warranty work and seek reimbursement for both parts and labor. (2) On major components, such as engine, transmission, air conditioning, etc., the City may chose to have the repairs performed by an authorized dealer and vendor shall reimburse the City for any parts or labor not covered by other warranty.
E.	<b>Outside Metro-Denver:</b> Vendor will pay for all transportation costs if unit(s) must be sent out of the Denver area for repairs. The City and County of Denver reserves the right to inspect unit(s) before returning back to Denver. The City and County of Denver also reserves the right to send at least one employee, without cost to the City, to inspect the repair(s) before unit is released back to the City.
F.	<b>Expired Warranties:</b> Units that have mutually agreed upon warranty defects during the warranty period will continue to be repaired until completed. If an on-going remedy continues past the warranty date the repairs will continue under warranty until completed or cease at a time agreed upon by the vendor and City and County of Denver.



7.3 Warranty Options

		<b>WARRANTY Options (Table 3) Class 7 &amp; 8 Vehicles</b>		
<b>Cost of Factory Extended Warranties</b>		<b>Please indicate in the columns below the additional cost of an extended warranty for all applicable components listed in the left hand column.</b>		
		<b>Inc = Included</b>		<b>N/A = Not available</b>
		<b>Two Years</b>	<b>Three Years</b>	<b>Five Years</b>
A.	Cab and Chassis	1558	2931	5311
B.	Engine	included	1500	3150
C.	Transmission	included	included	825
D.	Drive Train	included	1225	3500
E.	Suspension	152	221	458
F.	Air Conditioning	736	941	1150
G.	Hydraulics			
H.	a. Pumps			
	b. Cylinders			
	c. Tanks			
	d. Valves			
	e. Controls			
I.	Attached Body			
J.	Joystick			
K.	Electrical Components			
L.	Other			
M.	Notes:			

## SPECIFICATION AND PRICING TEMPLATE

**7.4 Warranty Service Locations:** Warranty repair parts and service shall be available locally at an established factory authorized dealership meeting requirements of Table 1 Section 7.

A. Cab &amp; Chassis:

Dealership Name: Transwest Trucks  
Street Address: 7624 Brighton RdTelephone #: 303-289-3161  
City: Commerce City

B. Sundries:

Dealership Name: Transwest Trucks  
Street Address: 7550 E 1-25 Frontage  
Rd.Telephone #: 303-684-3400  
City: FREDERICK, CO

Reference Nos.:

27

Vendor/Sub Vendor: WJ

## SPECIFICATION AND PRICING TEMPLATE

## 8.0 Heavy Duty Vehicle Delivery Documentation:

Delivery Documentation (GVWR 26,001-Lbs and Above Heavy Duty)	
A.	<b>Vehicles ordered under this specification</b> shall be complete and delivered to CITY AND COUNTY OF DENVER, Fleet Management Division. All prices quoted must be quoted at a firm price F.O.B. Denver, Colorado, 5440 Roslyn St. Building C.
B.	<b>Vendor shall supply at acceptance and delivery of vehicle.</b> <ol style="list-style-type: none"> <li>1. Bill of Sale (aka invoice, buyers order)</li> <li>2. Original MSO (Manufacturers Statement of Origin)</li> <li>3. Application for Title and/or Registration, Colorado Dept of Revenue form DR2395 (02-22-11)</li> <li>4. Odometer Disclosure Statement, Colorado Dept of Revenue form DR2407 (09-07-05)</li> <li>5. Letter of Certification on Vendor Letterhead (Required for Incomplete Vehicles) with added bodies etc, describes the final configuration of the vehicle)</li> <li>6. Air Brake inspection form required for any vehicle with air brakes or truck units capable of towing trailers greater than 10,000-Lbs</li> <li>7. Standard Sales Tax Receipt.</li> <li>8. DOT inspection form.</li> <li>9. Temporary License Plate.</li> <li>10. New Equipment Check-in Form/ Vendor Supplied Information on the Vehicle. Form provided by Fleet contact Dolores @ 720.865.3903</li> <li>11. Copy of City Purchase Order.</li> <li>12. All Keys ordered for the Vehicle and Sundries, i.e. toolboxes etc.</li> <li>13. All Manuals repair, parts, owners and/or CD's/DVD's etc</li> <li>14. Vehicle Warranty information and receipt for optional warranty.</li> <li>15. Receipts and Warranty information for vendor Installed/supplied components (lift gates, snowplows, lighting equipment etc)</li> </ol>
C.	For an "Incomplete Vehicle" (cab & chassis) add the following: <ol style="list-style-type: none"> <li>16. Verification of Vehicle Identification Number (VIN), Colorado Dept. of Revenue form DR2087.</li> <li>17. Statement of Fact for incomplete vehicles with added bodies etc, describes the final configuration of the vehicle.</li> <li>18. Original weight slip.</li> </ol>
D.	Delivery: Monday through Friday between 8:00am and 1:00pm. Location: CITY AND COUNTY OF DENVER Fleet Management 5440 Roslyn St. Building C Denver, CO 80216 Contact person to coordinate delivery: Dolores Gallegos at (720) 865-3900 ext. 03 or direct line (720) 865-3903.

## Romero, Michael P. - Purchasing

---

**From:** Will Schafer [whschafer@transwest.com]  
**Sent:** Wednesday, May 29, 2013 12:58 PM  
**To:** Romero, Michael P. - Purchasing  
**Cc:** Bales, Gary D. - PW Fleet; Legg, Doug - PW Street Maintenance; Cooper, Tony L. - PW Fleet  
**Subject:** Freightliner chassis options  
**Attachments:** DENVER SINGLE FRAME.doc; DENVER DOUBLE FRAME.doc

**Categories:** Important

Michael,

The option for a 13 gallon DEF tank with factory fill is \$ 92.00

We also have an option for a single frame rail with over 3,000,000 RBM(specs attached). Eliminate wear issues between the double channel frame rails.

\$ 496.00 and adds only 5 LBS including PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION for the snow plow.

Thanks,

**Will Schafer**  
Government/Fleet Manager



303-301-7509 Direct  
303-907-1357 Cell  
303-288-2310 Fax

[whschafer@transwest.com](mailto:whschafer@transwest.com)

0750A-2012  
**SPECIFICATION AND PRICING TEMPLATE**

9.0 **Vehicle Delivery**  
 9.1 **Delivery of Cab and Chassis to Body Vendor**

	<b>PROVIDE NUMBER OF DAYS REQUIRED          FOR DELIVERY OF CAB AND CHASSIS          AFTER PURCHASE ORDER IS ISSUED</b>
	<u>90-120</u> DAYS

10.0 **Complete Vehicle Cost**

<p><b>Include:</b></p> <ul style="list-style-type: none"> <li>○ Cab &amp; Chassis Total Cost</li> </ul> <p><b>Do Not Include:</b></p> <ul style="list-style-type: none"> <li>○ Optional Equipment</li> <li>○ Warranty Cost (s)</li> <li>○ Manual Cost (s)</li> <li>○ Informational Items in Section 11.0 of the specifications (Below)</li> <li>● Dump Body Total Cost</li> <li>● Snowplow System Total Cost</li> <li>● Spreader System Total Cost</li> <li>● Optional Items Total Cost</li> </ul>	<b>TOTAL COST, CAB and CHASSIS</b>	\$ <u>117,336</u>
--	------------------------------------	-------------------

Reference Nos.:

Vendor/Sub Vendor: Wdy



PRICE: \$117,336 {ORIGINAL}

REMOVE: < - \$281> (Block Heater)

DEF TANK: +\$92

FRAME OPTION: +\$496

REMOVED BUMPER GUIDES: <-260>

(NEW FOR 2016) REDUCE UPFITTER SWITCHES TO 6: < \$-112>

TOWING PACKAGE: \$1,185

PPI ADJUSTMENT: +\$11,294

Quad Axle Upgrades/ Adjustments

Engine Upgrade to 500HP/1850 Ft lb Torque: +\$2,366

Convert Transmission to Eaton FO-18E318B-MXP ULTRASHIFT: -\$3,589

Lengthen Frame: \$667.00

Hydraulic PTO Conversion(Front): \$464

2017 VOLUNTARY PRICE REDUCTION: <\$-6258>

2017-5 YEAR VIRTUAL TECHNICIAN SUBSCRIPTION: \$288

2017-ZONAR TABLET (INSTALLED): \$875

Complete Cab and Chassis: \$124,563

# Purchase Order

**DO NOT INVOICE TO THIS ADDRESS**  
**City and County of Denver**

Purchasing Division  
 201 West Colfax Avenue Dept.304  
 Denver, CO 80202  
 United States  
 Phone: 720/913-8100 Fax: 720/913-8101



<b>Purchase Order</b> PWOPS-0000012865	<b>Date</b> 04/06/2017	<b>Revision</b>	<b>Page:</b> 1 of 6
<b>Payment Terms</b> Net30	<b>Freight Terms</b> DESTINATION	<b>Ship Via</b> Common	
<b>Buyer</b> Romero, Michael P. - Purchasin	<b>Phone</b> 720 913 8122	<b>Origin</b> REG	

**Vendor:** 0000000776 Phone: 303/288-6649 Fax: 303/288-5577

TRANS-WEST TRUCK INC  
 5100 EAST 78TH AVENUE  
 COMMERCE CITY CO 80022  
 United States

**Ship To:**  
 DPW Fleet Maintenance  
 5440 Roslyn  
 Building C, Door C-6  
 Denver CO 80216  
 United States

**Bill To:**  
 Accounts Payable  
 201 West Colfax Ave Dept 908  
 invoices@denvergov.org  
 720/913-8811  
 Denver CO 80202  
 United States

**Tax Exempt? Y** **Tax Exempt ID:** 98-02890-000

Line-Sch	Vendor Part#/Description	Mfg ID	Quantity	UOM	PO Price	Extended Amt	Due Date
1 - 1	17-101, 102: 2017 Freightliner 114SD Cab and Chassis - Quad Axle		2.00	EA	\$124,563.00	\$249,126.00	08/11/2017
	See requirements per City and County of Denver Specification CCD Bid Award #0750A 2017 City Ref. 101,102 Cab and Chassis: \$117,336 No Block Heater: < - \$281> 13 Gallon DEF Tank Upgrade: \$92.00 Single Frame Rail Option: \$496.00 No Bumper Guides: <-260> 6 Dash Switches Instead of 10 (\$28 Each): Net Reduction < - \$112> Towing Package: \$1,185 PPI ADJUSTMENT: +\$11,294 Cab and Chassis: \$129,750  Quad Axle Upgrades/ Adjustments Engine Upgrade to 500HP/1850 Ft lb Torque: +\$2,366 Convert Transmission to Eaton FO-18E318B-MXP Ultrashift: -\$3,589 Lengthen Frame: \$667.00 Hydraulic Conversion to Front PTO: \$464  2017 Voluntary Price Reduction: <-6258> 2017-5 Year Virtual Technician Subscription: \$288 2017-Zonar Tablet (installed): 875 Complete Cab and Chassis: \$124,563  Req ID: 0000057895						
2 - 1	17-100, 104-108: 2017 Freightliner 114SD Cab and Chassis-Tandem Axle		6.00	EA	\$124,655.00	\$747,930.00	08/11/2017

# Purchase Order

**DO NOT INVOICE TO THIS ADDRESS**  
**City and County of Denver**

Purchasing Division  
 201 West Colfax Avenue Dept.304  
 Denver, CO 80202  
 United States  
 Phone: 720/913-8100 Fax: 720/913-8101



<b>Purchase Order</b> PWOPS-0000012865	<b>Date</b> 04/06/2017	<b>Revision</b>	<b>Page:</b> 2 of 6
<b>Payment Terms</b> Net30	<b>Freight Terms</b> DESTINATION	<b>Ship Via</b> Common	
<b>Buyer</b> Romero, Michael P. - Purchasin	<b>Phone</b> 720 913 8122	<b>Origin</b> REG	

**Vendor:** 0000000776 Phone: 303/288-6649 Fax: 303/288-5577

TRANS-WEST TRUCK INC  
 5100 EAST 78TH AVENUE  
 COMMERCE CITY CO 80022  
 United States

**Ship To:**  
 DPW Fleet Maintenance  
 5440 Roslyn  
 Building C, Door C-6  
 Denver CO 80216  
 United States

**Bill To:**  
 Accounts Payable  
 201 West Colfax Ave Dept 908  
 invoices@denvergov.org  
 720/913-8811  
 Denver CO 80202  
 United States

**Tax Exempt? Y** **Tax Exempt ID:** 98-02890-000

Line-Sch	Vendor Part#/Description	Mfg ID	Quantity	UOM	PO Price	Extended Amt	Due Date
	See requirements per City and County of Denver Specification						
	CCD Bid Award #0750A						
	2017 City Ref. 100,104-108						
	Cab and Chassis: \$117,336						
	No Block Heater: < - \$281>						
	13 Gallon DEF Tank Upgrade: \$92.00						
	Single Frame Rail Option: \$496.00						
	No Bumper Guides: <-260>						
	6 Dash Switches Instead of 10 (\$28 Each): Net Reduction < - \$112>						
	PPI ADJUSTMENT: +\$11,294						
	Cab and Chassis: \$128,565						
	2017 Voluntary Price Reduction: <-5073>						
	2017-5 Year Virtual Technician Subscription: \$288						
	2017-Zonar Tablet (installed): \$875						
	Complete Cab and Chassis: \$124,655						
Req ID: 0000057897							

# Purchase Order

**DO NOT INVOICE TO THIS ADDRESS**  
**City and County of Denver**

Purchasing Division  
 201 West Colfax Avenue Dept.304  
 Denver, CO 80202  
 United States  
 Phone: 720/913-8100 Fax: 720/913-8101



<b>Purchase Order</b> PWOPS-0000012865	<b>Date</b> 04/06/2017	<b>Revision</b>	<b>Page:</b> 3 of 6
<b>Payment Terms</b> Net30	<b>Freight Terms</b> DESTINATION	<b>Ship Via</b> Common	
<b>Buyer</b> Romero, Michael P. - Purchasin	<b>Phone</b> 720 913 8122	<b>Origin</b> REG	

**Vendor:** 0000000776 Phone: 303/288-6649 Fax: 303/288-5577

TRANS-WEST TRUCK INC  
 5100 EAST 78TH AVENUE  
 COMMERCE CITY CO 80022  
 United States

**Ship To:**  
 DPW Fleet Maintenance  
 5440 Roslyn  
 Building C, Door C-6  
 Denver CO 80216  
 United States

**Bill To:**  
 Accounts Payable  
 201 West Colfax Ave Dept 908  
 invoices@denvergov.org  
 720/913-8811  
 Denver CO 80202  
 United States

**Tax Exempt? Y** **Tax Exempt ID:** 98-02890-000

Line-Sch	Vendor Part#/Description	Mfg ID	Quantity	UOM	PO Price	Extended Amt	Due Date
Vendor contact notes: Will Schafer Government/Fleet Manager 303-301-7509 Direct whschafer@transwest.com  Coordinate build with: Gary Bales 720-337-1197 Delivery: Monday through Friday between 8:00am and 1:00pm. Location: CITY AND COUNTY OF DENVER Fleet Management 5440 Roslyn St. Building C Denver, CO 80216 Contact person to coordinate delivery: Call (720) 865-3900 New Equipment Check-in Form Required  Title to Read: City and County of Denver 201 West Colfax Avenue Dept 304 Denver, CO 80202  Purchase made pursuant to Bidder's Proposal No: 0750A_2012 MPO Price Structure: 0750A0113 Upgrades/ Adjustments: Per DRMC 20-64(A1) Purchase Made Under the Provisions of Section 20-64(A)(4) of the Revised Municipal Code. Standardization Planned Fleet Replacement Fund 842000 11804 5053400 This Purchase Order is contingent on Council action in accordance with 3.2.6. (e) of the City Charter and is void without such action.							

**Total PO Amount** \$997,056.00

Any Discrepancies must be reconciled with the Purchasing Division Buyer before this order is filled.

This Purchase Order may contain an item or items issued pursuant to a Master Purchase Order(s) ("MPO") previously agreed to between the City and the Vendor. All of the terms and conditions of the MPO(s) referenced above shall govern the purchase of the related item(s). The Vendor acknowledges and agrees by accepting this Purchase Order: a) that for any item referencing an MPO and where the terms and conditions stated in this Purchase Order differ from the MPO(s) the PO terms are void and of no effect [unless agreed to in a separate written or electronic acknowledgment between the Vendor and the Director of Purchasing] and b) that where there is no MPO referenced above, the Vendor agrees to be bound by all of the terms and conditions of this Purchase Order.

If this purchase order is for a task order, the terms and conditions of the applicable City contract shall govern.

# Purchase Order

**DO NOT INVOICE TO THIS ADDRESS**  
**City and County of Denver**

Purchasing Division  
 201 West Colfax Avenue Dept.304  
 Denver, CO 80202  
 United States  
 Phone: 720/913-8100 Fax: 720/913-8101



<b>Purchase Order</b> PWOPS-0000012865	<b>Date</b> 04/06/2017	<b>Revision</b>	<b>Page:</b> 4 of 6
<b>Payment Terms</b> Net30	<b>Freight Terms</b> DESTINATION	<b>Ship Via</b> Common	
<b>Buyer</b> Romero, Michael P. - Purchasin	<b>Phone</b> 720 913 8122	<b>Origin</b> REG	

**Vendor:** 0000000776 Phone: 303/288-6649 Fax: 303/288-5577

TRANS-WEST TRUCK INC  
 5100 EAST 78TH AVENUE  
 COMMERCE CITY CO 80022  
 United States

**Ship To:**  
 DPW Fleet Maintenance  
 5440 Roslyn  
 Building C, Door C-6  
 Denver CO 80216  
 United States

**Bill To:**  
 Accounts Payable  
 201 West Colfax Ave Dept 908  
 invoices@denvergov.org  
 720/913-8811  
 Denver CO 80202  
 United States

**Tax Exempt? Y**                      **Tax Exempt ID:** 98-02890-000

Line-Sch	Vendor Part#/Description	Mfg ID	Quantity	UOM	PO Price	Extended Amt	Due Date
----------	--------------------------	--------	----------	-----	----------	--------------	----------

**TERMS AND CONDITIONS**

**GENERAL CONDITIONS OF PURCHASE:**

1. Non-Exclusive: This Purchase Order is non-exclusive. City does not guarantee any minimum purchase other than as provided herein
2. Inspection and Acceptance: Vendor shall perform all services in accordance with the standard of care exercised by highly competent vendors who perform like or similar services. City may inspect all goods/services prior to acceptance. Payment does not constitute acceptance. Vendor shall bear the cost of any inspection/testing that reveal goods/services that are defective or do not meet specifications. City's failure to accept or reject goods/services shall not relieve Vendor from its responsibility for such goods/services that are defective or do not meet specifications nor impose liability on City for such goods/services. If any part of the goods/services are not acceptable to City, City may, in addition to any other rights it may have at law or in equity: (1) make a warranty claim; (2) repair and/or replace the goods or substitute other services at Vendor's expense; or (3) reject and return the goods at Vendor's cost and/or reject the services at Vendor's expense for full credit. Any rejected goods/services are not to be replaced without written authorization from City, and any such replacement shall be on the same terms and conditions contained in this Purchase Order.
3. Shipping, Taxes and Other Credits and Charges: Vendor shall procure all permits and licenses; pay all charges, taxes and fees; and give all notices necessary and incidental to the fulfillment of this Purchase Order and all cost thereof have been included in the prices contained herein. City shall not be liable for the payment of taxes, late charges or penalties of any nature, except as required by D.R.M.C. § 20-107, et seq. The price of all goods/services shall reflect all applicable tax exemptions. City's Federal Registration No. is 84-6000580 and its State Registration No. is 98-02890. All pricing is F.O.B. destination unless otherwise specified. Shipments must be marked with Vendor's name, the Purchase Order number, and contain a delivery or packing slip. Vendor shall not impose any charges for boxing, crating, parcel post, insurance, handling, freight, express or other similar charges or fees. Vendor shall notify City in writing of any price decreases immediately, and City shall receive the benefit thereof on all unshipped items. Vendor shall comply with any additional delivery terms specified herein. Vendor shall be responsible for the cleanup and reporting of any contamination (environmental or otherwise) or spillage resulting from the delivery and/or unloading of goods within twenty-four (24) hours of the contamination or spillage or sooner if required by law. Vendor shall pay all sales and use taxes levied by City on any tangible personal property built into the goods/services. Vendor shall obtain a Certificate of Exemption from the State of Colorado Department of Revenue prior to the purchase of any materials to be built into the goods/services and provide a copy of the Certificate to City prior to final payment.
4. Risk of Loss: Vendor shall bear the risk of loss, injury or destruction of goods prior to delivery to City. Loss, injury or destruction shall not release Vendor from any obligation hereunder.
5. Invoice: Each invoice shall include: (i) the purchase order number; (ii) individual itemization of the goods/services; (iii) per unit price, extended and totaled; (iv) quantity ordered, back ordered and shipped; (v) an invoice number and date; (vi) ordering department's name and "ship to" address; and (vii) agreed upon payment terms set forth herein.
6. Payment: Payment shall be subject to City's Prompt Payment Ordinance D.R.M.C. § 20-107, et-seq, after City accepts the goods/services. City's payment obligations hereunder, whether direct or contingent, shall extend only to funds appropriated by the Denver City Council for the purpose of this Purchase Order, encumbered for the purpose of this Purchase Order and paid into the Treasury of City. Vendor acknowledges that: (i) City does not by this Purchase Order, irrevocably pledge present cash reserves for payments in future fiscal years; and (ii) this Purchase Order is not intended to create a multiple-fiscal year direct or indirect debt or financial obligation of City. City may setoff against any payments due to Vendor any claims and/or credits it may have against Vendor under this Purchase Order.
7. Amendments/Changes: Only the Manager of General Services or his delegate is authorized to change or amend this Purchase Order by a formal written change order. Any change or amendment that would cause the aggregate payable under this Purchase Order to exceed the amount appropriated and encumbered for this Purchase Order is expressly prohibited and of no effect. Vendor shall verify that the amount appropriated and encumbered is sufficient to cover any increase in cost due to changes or amendments. Goods/services provided without such verification are provided at Vendor's risk. The Vendor has no authority to bind City on any contractual matters.
8. Warranty: Vendor warrants and guarantees to City that all goods furnished under this Purchase Order are free from defects in workmanship and materials, are merchantable, and fit for the purposes for which they are to be used. For any goods furnished under this Purchase Order which become defective within twelve (12) months (unless otherwise specified) after date of receipt by City, Vendor shall either, at City's election and to City's satisfaction, remedy any and all defects or replace the defective goods at no expense to City within seven (7) days of receipt of the defective goods or accept the defective goods for full credit and payment of any return shipping charges. Vendor shall be fully responsible for any and all warranty work, regardless of third party warranty coverage. Vendor shall furnish additional or replacement parts at the same prices, conditions and specifications delineated herein.
9. Indemnification/Limitation of Liability: Vendor shall indemnify and hold harmless City (including but not limited to its employees, elected and appointed officials, agents and representatives) against any and all losses (including without limitation, loss of use and costs of cover), liability, damage, claims, demands, actions and/or proceedings and all costs and expenses connected therewith (including without limitation attorneys' fees) that arise out of or relate to any claim of infringement of patent, trademark, copyright, trade secret or other intellectual property right related to this Purchase Order or that are caused by or the result of any act or omission of Vendor, its agents, suppliers, employees, or representatives. Vendor's obligation shall not apply to any liability or damages which result solely from the negligence of City. City shall not be liable for any consequential, incidental, indirect, special, reliance, or punitive damages or for any lost profits or revenues, regardless of the legal theory under which such liability is asserted. In no event shall City's aggregate liability exceed the agreed upon cost for those goods/services that have been accepted by City under this Purchase Order up to the Total Purchase Order Amount. Notwithstanding anything contained in this Purchase Order to the contrary, City in no way limits or waives the rights, immunities and protections provided by C.R.S. § 24-10-101, et seq.
10. Termination: City may terminate this Purchase Order, in whole or in part, at any time and for any reason immediately upon written notice to Vendor. In the event of such a termination, City's sole liability shall be limited to payment of the amount due for the goods/services accepted by City. Vendor acknowledges the risks inherent in this termination for convenience and expressly accepts them. Termination by City shall not constitute a waiver of any claims City may have against Vendor.
11. Interference: Vendor shall notify the Director of Purchasing immediately of any condition that may interfere with the performance of Vendor's obligations under this Purchase Order and confirm such notification in writing within twenty-four (24) hours. City's failure to respond to any such notice shall in no way act as a waiver of any rights or remedies City may possess.
12. Venue, Choice of Law and Disputes: Venue for all legal actions shall lie in the District Court in and for City and County of Denver, State of Colorado, and shall be governed by the laws of the State of Colorado as well as the Charter and Revised Municipal Code, rules, regulations, Executive Orders, and fiscal rules of City. All disputes shall be resolved by administrative hearing, pursuant to the procedure established by D.R.M.C. § 56-106. Director of Purchasing shall render the final determination.

# Purchase Order

**DO NOT INVOICE TO THIS ADDRESS**  
**City and County of Denver**  
 Purchasing Division  
 201 West Colfax Avenue Dept.304  
 Denver, CO 80202  
 United States  
 Phone: 720/913-8100 Fax: 720/913-8101



<b>Purchase Order</b> PWOPS-0000012865	<b>Date</b> 04/06/2017	<b>Revision</b>	<b>Page:</b> 5 of 6
<b>Payment Terms</b> Net30	<b>Freight Terms</b> DESTINATION	<b>Ship Via</b> Common	
<b>Buyer</b> Romero, Michael P. - Purchasin	<b>Phone</b> 720 913 8122	<b>Origin</b> REG	

**Vendor:** 0000000776 Phone: 303/288-6649 Fax: 303/288-5577

TRANS-WEST TRUCK INC  
 5100 EAST 78TH AVENUE  
 COMMERCE CITY CO 80022  
 United States

**Ship To:**  
 DPW Fleet Maintenance  
 5440 Roslyn  
 Building C, Door C-6  
 Denver CO 80216  
 United States

**Bill To:**  
 Accounts Payable  
 201 West Colfax Ave Dept 908  
 invoices@denvergov.org  
 720/913-8811  
 Denver CO 80202  
 United States

**Tax Exempt? Y**      **Tax Exempt ID:** 98-02890-000

Line-Sch	Vendor Part#/Description	Mfg ID	Quantity	UOM	PO Price	Extended Amt	Due Date
----------	--------------------------	--------	----------	-----	----------	--------------	----------

13. Assignment/No Third Party Beneficiary: Vendor shall not assign or subcontract any of its rights or obligations under this Purchase Order without the written consent of City. In the event City permits an assignment or subcontract, Vendor shall continue to be liable under this Purchase Order and any permitted assignee or subcontractor shall be bound by the terms and conditions contained herein. This Purchase Order is intended solely for the benefit of City and Vendor with no third party beneficiaries

14. Notice: Notices shall be made by Vendor to the Director of Purchasing and by City to Vendor at the addresses provided herein, in writing sent registered, return receipt requested.

15. Compliance With Laws: Vendor shall observe and comply with all federal, state, county, city and other laws, codes, ordinances, rules, regulations and executive orders related to its performance under this Purchase Order. City may immediately terminate this Purchase Order, in whole or in part, if Vendor or an employee is convicted, plead nolo contendere, or admits culpability to a criminal offense of bribery, kickbacks, collusive bidding, bid-rigging, antitrust, fraud, undue influence, theft, racketeering, extortion or any offense of a similar nature.

16. Insurance: Vendor shall secure, before delivery of any goods/services, the following insurance covering all operations, goods and services provided to City. Vendor shall keep the required insurance coverage in force at all times during the term of the Purchase Order, or any extension thereof, during any warranty period, and for three (3) years after termination of this Purchase Order. The required insurance shall be underwritten by an insurer licensed to do business in Colorado and rated by A.M. Best Company as "A-"VIII or better. Each policy shall contain a valid provision or endorsement requiring notification to the City in the event any of the required policies be canceled or non-renewed before the expiration date thereof. Such written notice shall be sent to the parties identified in the Notices section of this Agreement. Such notice shall reference the City contract number listed on the signature page of this Agreement. Said notice shall be sent thirty (30) days prior to such cancellation or non-renewal unless due to non-payment of premiums for which notice shall be sent ten (10) days prior. If such written notice is unavailable from the insurer, contractor shall provide written notice of cancellation, non-renewal and any reduction in coverage to the parties identified in the Notices section within three (3) business days of such notice by its insurer(s) and referencing the City's contract number. If any policy is in excess of a deductible or self-insured retention, City must be notified by Vendor. Vendor shall be responsible for the payment of any deductible or self-insured retention. The insurance coverages specified in this Purchase Order are the minimum requirements, and these requirements do not lessen or limit the liability of Vendor. Risk Management reserves the right to require additional policies and/or limits based on agreement scope of work. Vendor shall provide a copy of this Purchase Order to its insurance agent or broker. Vendor may not commence services or work relating to the Purchase Order prior to placement of coverage. Contractor certifies that the attached certificate of insurance attached to the Purchase Order documents, preferably an ACORD certificate, complies with all insurance requirements of this Purchase Order. The City's acceptance of a certificate of insurance or other proof of insurance that does not comply with all insurance requirements set forth in this Purchase Order shall not act as a waiver of Vendor's breach of this Purchase Order or any of the City's rights or remedies under this Agreement. The City's Risk Management Office may require additional proof of insurance, including but not limited to policies and endorsements. Vendor's insurer shall name as Additional Insured to its Commercial General Liability and Business Auto Liability policies the City and County of Denver, its elected and appointed officials, employees and volunteers. Vendor's insurer shall waive subrogation rights against the City. All sub-contractors and sub-consultants (including independent contractors, suppliers or other entities providing goods/services required by this Purchase Order) shall be subject to all of the requirements herein and shall procure and maintain the same coverages required of Vendor. Vendor shall include all such entities as insureds under its policies or shall ensure that they all maintain the required coverages. Vendor shall provide proof of insurance for all such entities upon request by City. For Worker's Compensation Insurance, Vendor shall maintain the coverage as required by statute for each work location and shall maintain Employer's Liability insurance with limits of \$100,000 for each bodily injury occurrence claim, \$100,000 for each bodily injury caused by disease claim, and \$500,000 aggregate for all bodily injuries caused by disease claims. Vendor expressly represents to City, as a material representation upon which City is relying, that none of the Vendor's officers or employees who may be eligible under any statute or law to reject Workers' Compensation Insurance shall effect such rejection during any part of the term of this Purchase Order, and that any such rejections previously effected, have been revoked. Vendor shall maintain Commercial General Liability coverage with limits of \$1,000,000 for each occurrence, \$1,000,000 for each personal and advertising injury claim, \$2,000,000 products and completed operations aggregate, and \$2,000,000 policy aggregate. Vendor shall maintain Business Auto Liability coverage with limits of \$1,000,000 combined single limit applicable to all owned, hired and non-hired vehicles used in performing services under this Purchase Order. For Commercial General Liability coverage, the policy must provide the following: (i) That this Purchase Order is an Insured Contract under the policy; (ii) Defense costs in excess of policy limits; (iii) A severability of interests, separation of insureds or cross liability provision; and (iv) A provision that coverage is non-contributory with other coverage or self-insurance provided by City. For claims-made coverage, the retroactive date must be on or before the first date when any goods or services were provided to City. Vendor must advise the City in the event any general aggregate or other aggregate limits are reduced below the required per occurrence limits. At their own expense, and where such general aggregate or other aggregate limits have been reduced below the required per occurrence limit, the Contractor will procure such per occurrence limits and furnish a new certificate of insurance showing such coverage is in force.

17. Severability: If any provision of this Purchase Order, except for the provisions requiring appropriation and encumbering of funds and limiting the total amount payable by City, is held to be invalid, illegal or unenforceable by a court of competent jurisdiction, the validity of the remaining portions or provisions shall not be affected if the intent of City and Vendor can be fulfilled.

18. Survival: All terms and conditions of this Purchase Order which by their nature must survive termination/expiration shall so survive. Without limiting the foregoing, Vendor's insurance, warranty and indemnity obligations shall survive for the relevant warranty or statutes of limitation period plus the time necessary to fully resolve any claims, matters or actions begun within that period. Bonds shall survive as long as any warranty period.

19. No Construction Against Drafting Party: No provision of this Purchase Order shall be construed against the drafter.

20. Status of Vendor/Ownership of Work Product: Vendor is an independent contractor retained on a contractual basis to perform services for a limited period of time as described in Section 9.1.1E(x) of the Charter of City. Vendor and its employees are not employees or officers of City under Chapter 18 of the D.R.M.C. for any purpose whatsoever. All goods, deliverables, hardware, software, plans, drawings, reports, submittals and all other documents or things furnished to City by Vendor shall become and are the property of City, without restriction.

21. Records and Audits: Vendor shall maintain for three (3) years after final payment hereunder, all pertinent books, documents, papers and records of Vendor involving transactions related to this Purchase Order, and City shall have the right to inspect and copy the same.

22. Remedies/Waiver: No remedy specified herein shall limit any other rights and remedies of City at law or in equity. No waiver of any breach shall be construed as a waiver of any other breach.

23. No Discrimination in Employment: Vendor shall not refuse to hire, discharge, promote or demote, or to discriminate in matters of compensation against any person otherwise qualified, solely because of race, color, religion, national origin, gender, age, military status, sexual orientation, marital status, or physical or mental disability; and Vendor shall insert the foregoing provision in any subcontracts hereunder.

# Purchase Order

**DO NOT INVOICE TO THIS ADDRESS**  
**City and County of Denver**

Purchasing Division  
 201 West Colfax Avenue Dept.304  
 Denver, CO 80202  
 United States  
 Phone: 720/913-8100 Fax: 720/913-8101



<b>Purchase Order</b> PWOPS-0000012865	<b>Date</b> 04/06/2017	<b>Revision</b>	<b>Page:</b> 6 of 6
<b>Payment Terms</b> Net30	<b>Freight Terms</b> DESTINATION	<b>Ship Via</b> Common	
<b>Buyer</b> Romero, Michael P. - Purchasin	<b>Phone</b> 720 913 8122	<b>Origin</b> REG	

**Vendor:** 0000000776 Phone: 303/288-6649 Fax: 303/288-5577

TRANS-WEST TRUCK INC  
 5100 EAST 78TH AVENUE  
 COMMERCE CITY CO 80022  
 United States

**Ship To:**  
 DPW Fleet Maintenance  
 5440 Roslyn  
 Building C, Door C-6  
 Denver CO 80216  
 United States

**Bill To:**  
 Accounts Payable  
 201 West Colfax Ave Dept 908  
 invoices@denvergov.org  
 720/913-8811  
 Denver CO 80202  
 United States

**Tax Exempt? Y**                      **Tax Exempt ID:** 98-02890-000

Line-Sch	Vendor Part#/Description	Mfg ID	Quantity	UOM	PO Price	Extended Amt	Due Date
----------	--------------------------	--------	----------	-----	----------	--------------	----------

24. Use, Possession or Sale of Alcohol or Drugs: Vendor shall cooperate and comply with the provisions of Executive Order 94. Violation may result in City terminating this Purchase Order or barring Vendor from City facilities or from participating in City operations.

25. Conflict of Interest: No employee of City shall have any personal or beneficial interest in the goods/services described in this Purchase Order; and Vendor shall not hire or contract for services any employee or officer of City which would be in violation of City's Code of Ethics, D.R.M.C. §2-51, et seq. or the Charter §§ 1.2.8, 1.2.9, and 1.2.12.

26. Advertising and Public Disclosure: The Vendor shall not include any reference to the Purchase Order or to services performed or goods purchased pursuant to the Purchase Order in any of the Vendor's advertising or public relations materials without first obtaining the written approval of the Director of Purchasing.

27. NO EMPLOYMENT OF ILLEGAL ALIENS TO PERFORM WORK UNDER THE AGREEMENT: a. This Agreement is subject to Division 5 of Article IV of Chapter 20 of the Denver Revised Municipal Code, and any amendments (the "Certification Ordinance"). b. The Contractor certifies that: (1) At the time of its execution of this Agreement, it does not knowingly employ or contract with an illegal alien who will perform work under this Agreement. (2) It will participate in the E-Verify Program, as defined in § 8 17.5-101(3.7), C.R.S., to confirm the employment eligibility of all employees who are newly hired for employment to perform work under this Agreement. c. The Contractor also agrees and represents that: (1) It shall not knowingly employ or contract with an illegal alien to perform work under the Agreement. (2) It shall not enter into a contract with a subconsultant or subcontractor that fails to certify to the Contractor that it shall not knowingly employ or contract with an illegal alien to perform work under the Agreement. (3) It has confirmed the employment eligibility of all employees who are newly hired for employment to perform work under this Agreement, through participation in the E-Verify Program. (4) It is prohibited from using the E-Verify Program procedures to undertake pre-employment screening of job applicants while performing its obligations under the Agreement, and that otherwise requires the Contractor to comply with any and all federal requirements related to use of the E-Verify Program including, by way of example, all program requirements related to employee notification and preservation of employee rights.

(5) If it obtains actual knowledge that a subconsultant or subcontractor performing work under the Agreement knowingly employs or contracts with an illegal alien, it will notify such subconsultant or subcontractor and the City within three (3) days. The Contractor will also then terminate such subconsultant or subcontractor if within three (3) days after such notice the subconsultant or subcontractor does not stop employing or contracting with the illegal alien, unless during such three-day period the subconsultant or subcontractor provides information to establish that the subconsultant or subcontractor has not knowingly employed or contracted with an illegal alien. (6) It will comply with any reasonable request made in the course of an investigation by the Colorado Department of Labor and Employment under authority of § 8-17.5-102(5), C.R.S. or the City Auditor, under authority of D.R.M.C. 20-90.3. d. The Contractor is liable for any violations as provided in the Certification Ordinance. If Contractor violates any provision of this section or the Certification Ordinance, the City may terminate this Agreement for a breach of the Agreement. If the Agreement is so terminated, the Contractor shall be liable for actual and consequential damages to the City. Any such termination of a contract due to a violation of this section or the Certification Ordinance may also, at the discretion of the City, constitute grounds for disqualifying Contractor from submitting bids or proposals for future contracts with the City.

28. In order to receive payment, a complete and responsive invoice must be submitted as required by the City's Prompt Payment Ordinance Article VII of Chapter 20, D.R.M.C., which includes clearly stating the City-generated purchase order or contract number on the invoice and complying with the City's invoicing instructions, including delivery of the invoice to the proper City official or agency.

29. Warranty: Vendor warrants and guarantees to City that all goods furnished under this Purchase Order are free from defects in workmanship and materials, are merchantable, and fit for the purposes for which they are to be used and that any professional services associated with the goods, or stand alone professional services under \$10,000, shall be performed in a workmanlike and professional manner, with the degree of skill and judgment normally exercised by recognized professionals performing services of the same or substantially similar nature. For any goods or services which are, or become defective within twelve (12) months (unless otherwise specified) after date of receipt by City, Vendor shall at no expense to City, at City's election and to City's satisfaction, either remedy any and all defects or replace the defective goods within seven (7) days of receipt of the defective goods or accept the defective goods for full credit and payment of any return shipping charges. Vendor shall be fully responsible for any and all warranty work, regardless of third party warranty coverage. Vendor shall furnish additional or replacement parts at the same prices, conditions and specifications delineated herein.

**Authorized Signature**