

DO NOT INVOICE THIS ADDRESS

City and County of Denver
Purchasing Division
201 W. Colfax Ave Dept. 304
Denver, CO 80202
United States of America
Ph: 720-913-8100 Fax: 720-913-8101



Purchase Order

Purchase Order Number	PO-00024920
Purchase Order Date	Oct 19, 2017
Contract ID	
Payment Terms	Net 30
Payment Type	ACH
Buyer	Andrew Miskell (720) 913-8159 Andrew.Miskell@denvergov.org

Supplier
WAGNER EQUIPMENT CO PO BOX 919000 DENVER, CO 80291 United States of America Ph: (303) 739-3230

Ship-To
5440 Roslyn St Denver, CO 80216 United States of America Gary Bales

Bill To
Public Works Finance/Administration - Dept 611 201 W Colfax Ave Denver, CO 80202 United States of America Gary Bales

Currency	Total Lines Amount	Tax Exempt	Total PO Amount
USD	\$729,686.00	98-09890-000	\$729,686.00
Shipping Terms	Shipping Method	Shipping Instructions	
FOB Destination	Common Carrier		

Line Number	Item Name	Description	Due Date	Unit of Measure	Quantity	Unit Price	Line Amount
1		Current Model Year Caterpillar PM-822 Rotomill/ Coldplaner	2/1/18	Each	1	729,686.00	729,686.00
Final Delivered Unit Price:							
\$ 562,162.00 - (1) Complete Unit PM-822							
\$ 34,697.00 - (1) 2.2 Meter Kennametal NS300 Cutting Drum with 15mm spacing (To be installed on PM-822 at time of delivery)							
\$ 47,869.00 - (1) 2.2 Meter Kennametal NS300 Cutting Drum with 7mm spacing							
\$ 37,297.00 - (1) 2.5 Meter Kennametal NS300 Cutting Drum with 15mm spacing							
\$ 47,661.00 - (1) Cutting Drum Housing for 2.5 Meter Cutting Drum							
\$ 0.00 - (1) Five Year/5,000 hour extended warranty (Free of Charge and included with base price for Complete Unit PM-822)							
\$ 729,686.00 - Complete Cost for all items listed above							

Vendor to fill in and submit attached Exhibit Vehicle Check-In.

Delivery will NOT be considered complete without the Vehicle Check-In form and payment will not be remitted.

Agency Contact: Gary Bales | (303) 513-6044 | Gary.Bales@denvergov.org

Additional Agency Contact: Doug Legg | (303) 513-6023 | Doug.Legg@denvergov.org

Vendor Contact: Ken Hearn | (303) 378-8697 | KHearn@wagnerequipment.com

Delivery: Monday through Friday between 8:00 am and 1:00 pm

By accepting this Purchase Order you agree to the Terms and Conditions of the General Services Purchasing Division.
Follow the URL provided to the Purchase Order Terms and Conditions –
<http://www.denvergov.org/content/denvergov/en/purchasing-main-page/POterms.html>

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Location:

City and County of Denver
Fleet Management
5440 Roslyn Street, Building C
Denver, CO 80216
Coordinate Delivery: (720) 865-3900

Title to Read:

City and County of Denver
201 West Colfax Avenue Dept 304
Denver, CO 80202

Documents to be Provided Upon Delivery:

Application for Title, State of Colorado
Odometer/Hours Statement

REFER TO EXHIBITS "A and B" FOR SERVICE DESCRIPTION AND PRICING ONLY.

VENDOR: You must contact the agency contact listed above to confirm this order.

Purchase Order price listed herein includes all shipping and handling.

All invoicing must match the purchase order exactly and contain the purchase order number. All invoices must be sent directly to the bill to address listed on the purchase order, this address may be different than the ship to address. Changes to this purchase are not valid without prior approval from purchasing.

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For additional questions regarding this purchase order and the terms herein contact: Andrew Miskell | 720-913-8159 | andrew.miskell@denvergov.org

ALL INVOICING AND CORRESPONDENCE MUST CONTAIN THE PURCHASE ORDER NUMBER IN FULL (PO-#####)

Purchase pursuant to DRMC 20-63(a) - Formal Bid

Formal Bid # 28558 - One (1) Current Model Year Rotomill/Coldplaner

Purchase is pursuant to DRMC 3.26(e)-This Purchase Order is contingent on Council approval and is void without such action.

By accepting this Purchase Order you agree to the Terms and Conditions of the General Services Purchasing Division.
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CCD EXHIBIT A - PO# 00024920

RETURN TO:
Department of General Services
PURCHASING DIVISION
201 West Colfax Avenue
Department 304, 11th Floor
Denver, CO 80202
Phone: (720) 913-8100
FAX: (720) 913-8101

CITY AND COUNTY OF DENVER



Department of General Services
PURCHASING DIVISION
www.denvergov.org/purchasing

Buyer: Andrew Miskell
andrew.miskell@denvergov.org

FORMAL PROPOSAL

Formal Proposal No. **28558**

One (1) Current Model Year Rotomill/Coldplanner

SCHEDULE OF EVENTS

• Proposal Issued	September 15, 2017		
• Pre-Proposal Conference	September 25, 2017	9:00 A.M.	Local Time
• Deadline to Submit Additional Questions	September 28, 2017	2:00 P.M.	Local Time
• Response to Written Questions	October 3, 2017		
• Proposal Due Date	October 10, 2017	2:00 P.M.	Local Time
• Location of Proposal Opening	Purchasing Department location listed above		

Vendor offers to furnish to the City and County of Denver the materials, supplies, products or services requested in accordance with the specifications and subject to the Terms and Conditions described herein.

VENDOR SIGN HERE

Company Name: Wagner Equipment Co.

By: Ken Hearn

(Printed or Typed Name)

Signature: Ken Hearn

Signature constitutes acceptance of all Terms and Conditions listed on this form and all documents attached.

Email: KHearn@Wagnerequipment.com

Phone: (303) 378-8697

THIS PROPOSAL MUST BE RETURNED ELECTRONICALLY THROUGH THE ROCKY MOUNTAIN E-PURCHASING SYSTEM (BIDNET®).

SECTION A: GENERAL INFORMATION & PROPOSAL INSTRUCTIONS**A.1 BACKGROUND AND SCOPE:**

The City and County of Denver, hereinafter referred to as the City, desires to solicit proposals relating to the purchase of **One (1) Current Model Year Rotomill/Coldplanner**.

A.2 ROCKY MOUNTAIN E-PURCHASING (BidNet®):

The City is collaborating with Rocky Mountain E-purchasing System (BidNet®) in the advertisement and facilitation of Formal Bids and Requests for Proposals (RFP) administered by the City's General Services Purchasing Division.

It is a requirement of this Formal Bid / RFP that interested parties familiarize themselves and register with BidNet®; proposer/ contractors who do not register may be considered non-responsive.

Registration with BidNet® is available at **NO CHARGE** and allows proposers access to view governmental bids posted on BidNet®; they offer an additional notification service option with an associated fee. It is the responsibility of the proposer/ contractor to evaluate and select the service option of their choice.

- The City is not responsible for the actions or lack thereof on the part of the proposer / contractor in regards to their interaction with BidNet®, or any other third-party bid notification service in relation to this Formal Bid/RFP.

More information is available at: www.bidnetdirect.com or by calling 1-800-835-4603.

A bid opening will be held on the date, time and location specified on the cover sheet Submitted pricing will be shared with interested persons at that time.

A.3 ELECTRONIC SUBMISSION OF PROPOSALS:

Submission of proposals for this solicitation may only be done electronically through BidNet®. Proposals must be submitted at www.bidnetdirect.com, no later than the date and time indicated in the proposal.

Proposers who feel they are unable to prepare and submit an electronic submittal should submit a request in writing to the Buyer, no later than the Question due date, for permission and instructions for submitting a hardcopy proposal.

A.4 PROPOSAL QUESTIONS:

The City shall not be bound by and the Vendor shall not request or rely on any oral interpretation or clarification of this proposal. Therefore any questions regarding this proposal are encouraged and should be submitted in writing by email to:

City Buyer: **Andrew Miskell**
E-Mail: andrew.miskell@denvergov.org

Questions received up to deadline to submit question in the Schedule of Events will be answered in writing per the Schedule of Events. Answers to questions from any Vendor will be provided to all Vendors.

A.14 EVALUATION AND AWARDS:

Award: Award will be made on an "all or none" basis by configuration.

The criteria to be used for the proposal evaluation may include but are not limited to:

- A. Price
- B. Specification Compliance
- C. Lead-time
- D. The City may request additional information and/or submit additional inquiries at its discretion

No weighting or relative importance of criteria is intended or implied by this list.

A.15 ADDITIONAL PURCHASES:

The City and County of Denver reserves the right, at its sole option and discretion, to purchase any additional requirements for any item contained herein and awarded in the contract resulting from this Bidder's Proposal at the same prices, terms and conditions for a period of two (2) years from the date of contract award. However, price adjustments may be allowed by the City and County of Denver Purchasing for essential specification changes, and price increases that are the direct result of an industry-wide price change reflected in Bureau of Labor Statistics Producer Price Index or equivalent industry index.

Price adjustments for specification changes must be discounted from the manufacturer's list price by a percentage equal to or greater than the percentage discount for similar items in the bid award. Price adjustments that are the direct result of an industry-wide price change must be fully documented and presented to the City. All piggyback quotations that require price adjustments must be presented with adequate supporting documentation.

A.16 BRAND AND/OR TRADE NAMES:

Each vendor shall agree to furnish the proposed services, equipment or materials that are called for on the face of this proposal in strict accordance with the conditions, requirements and specifications of this invitation to propose. In the event the City includes trade names as a part of the work description of any item, any participating vendor may submit quotations on other trade-named products, providing they are equivalent, unless the wording "No Substitute"/ "Brand Name Only"/ "No Approved Equals" is indicated. When the description includes the wording "No Substitute"/ "Brand Name Only"/ "No Approved Equals" in addition to the trade name, quotations of price will be accepted only on the trade-named product indicated. All disputes concerning grades and quality of merchandise or work shall be determined by the Director of Purchasing or his/her authorized representative.

A.17 PRODUCT/PERFORMANCE LITERATURE:

Proposals submitted for products considered by the seller to be equal to or better than the brand names or manufacturer's catalog references specified herein, must be submitted with technical literature and/or detailed product brochures for the City's use to evaluate the product(s) offered. Proposals submitted without this product information may be considered as non responsive and rejected.

Complete manufacturer's literature and specifications must be furnished by each vendor on the brand name products he is quoting to furnish. The successful vendor will be required to furnish manuals and parts books on items proposed.

The City and County of Denver reserves the right at the time of final evaluation of this proposal, to request of any vendor proposing an "Approved Equal" technical data, test results or other pertinent information as evidence that the substitute offered is equal to or better than the specification requirement.

A.18 COOPERATIVE PURCHASING:

The City and County of Denver encourages and participates in cooperative purchasing endeavors undertaken by or on behalf of other governmental jurisdictions, pursuant to Denver Revised Municipal Code Sec. 20-64.5. To the extent other governmental jurisdictions are legally able to participate in cooperative purchasing endeavors, the City and County of Denver supports such cooperative activities. Further, it is a specific requirement of this proposal or Request for Proposal that pricing offered herein to the City and County of Denver may be offered by the vendor to any other governmental jurisdiction purchasing the same products.

The vendor(s) must deal directly with any governmental agency concerning the placement of purchase orders, freight charges for destinations outside of the Denver Metro area, contractual disputes, invoicing, and payment. The City and County of Denver shall not be liable for any costs, damages incurred by any other entity.

A.19 SUSTAINABILITY POLICY AND GUIDANCE:

The City & County of Denver, through its Office of Sustainability and Executive Order 123, is committed to protecting the environment, and the health of the public and its employees. In accordance with this policy, City agencies are directed to procure cost-competitive products and services that minimize resource consumption and negative impacts on the environment and human health.

In requesting proposals for the City, when specifically required in the evaluation criteria, expects all responsive proposers to demonstrate commitment to and experience in environmental sustainability and public health protection practices applicable to their line of services. The City during its evaluation processes will actively assess the quality and value of all proposals.

Vendors, when applicable, are to follow standards and recommendations of the United States Environmental Protection Agency EPP program, the Green Seal organization, and standards and practices specified by the U.S. Green Building Council, including the Leadership in Energy and Environmental Design (LEED) program.

A.19.a Environmentally Preferable Purchasing (EPP) Guidance and Prohibitions:

The City defines Environmentally Preferable products and services as having a lesser or reduced effect on human health and the environment when compared with competing products and services that serve the same purpose. The City's EPP evaluation may extend to raw materials acquisition, energy consumption in manufacturing and transport, packaging, recyclability, waste disposal, and many other factors.

A.20 DISCLOSURE OF CONTENTS OF PROPOSALS:

All proposals become a matter of public record and shall be regarded as Public Records, with the exception of those specific elements in each proposal which are designated by the proposer as Business or Trade Secrets and plainly marked "Trade Secrets", "Confidential", "Proprietary", or "Trade Secret". Items so marked shall not be disclosed unless disclosure is otherwise required under the Open Records Act. If such items are requested under the Open Records Act, the City will use reasonable efforts to notify the proposer, and it will be the responsibility of the proposer to seek a court order protecting the records, and to defend, indemnify, and hold harmless the City from any claim or action related to the City's non-disclosure of such information.

Reference No.: 17-098

CITY AND COUNTY OF DENVER
Technical Specifications and Bid Items
For a
2.2 Meter Rotomill / Coldplanner

1.0 General Description

A new 2018 current production year, Caterpillar PM822 Cold Planner / Rotomill minimum operating weight of 80,887- lbs. or approved equal. The Cold Planner / Rotomill shall be suitable for working on city streets.

1.1 Standard Factory Equipment

All standard factory equipment shall be included with the 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 equipment shall conform to the highest standards. Durability shall be sufficient to allow safe and efficient operation of the equipment.

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. Complies: in "Offered Equipment" column write Complies if the item can be provided as requested, provide cost of item in "Cost" column.
- B. Included: in "Offered Equipment" column write Included if the item is provided as standard equipment at no additional cost, "Cost" column leave blank.
- 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. Note breakout costs do not need to add up to the total cost, breakout costs will be used for comparisons clarifying cost issues and if deletions to the specifications need to be made.

CCD EXHIBIT B - PO# 00024920 - Continued

Formal Bid # 28558
One (1) Rotomill/Coldplanner

2.0 Basic Requirements or Approved Equal.

When a brand/model is referenced in the specifications unless it is stated as “No Approved Equal” it is only a statement of expected quality, not a minimum qualification that has to be met. Information on alternative products shall be provided with the bid so a full technical comparison can be made of the product submitted as an “approved equal”. The City and County reserves the right to make the final determination if a Vendor’s submission will be considered as an approved equal.

2.1 Basic Vehicle

	Description of Equipment	Offered Equipment	Cost \$
A.	Current year model year Caterpillar PM822 self-propelled rotary cold pavement planning machine or approved equal.	Make: <u>Caterpillar</u> Model: <u>PM-822</u>	\$ _____
B.	Requested minimum operating weight not less than 80,500-lbs.	Operating Weight: <u>80.887lbs</u>	\$ _____
C.	Speed/Grade ability: 1. Operating speed: 328 Feet Per Minute max 2. Travel speed: 3.7 MPH max	Feet Per Minute max: <u>Yes</u> Travel speed max: <u>Yes</u>	\$ _____
D.	Machine dimensions: 1. Height: a. Overall height, conveyor down transport mode max 9’ 10” b. Top of raised conveyor: max 17’ 3” 2. Overall width: max 9’ 4” 3. Overall length with conveyor up: max 47’ 8” 4. Transport length: max 41’ 5. Transport Weight: min 72,000 lbs. max 82,000 lbs. 6. Ground clearance: 12" min. 7. Conveyor Swing: min 60 degree 8. Minimum Cutting radius: Left: max 6’ 7” Right: max 6’	Overall Height: <u>9.84 ft</u> Top of Raised Conveyor: <u>17.17 ft</u> Max width: <u>8.83 ft</u> Overall length: <u>47.62 ft</u> Transport length: <u>40.79 ft</u> Transport weight: <u>72.290 lbs</u> Ground clearance: <u>12 in</u> Conveyor swing: <u>60 Degrees</u> Min cutting radius left: <u>6 ft 7 inches</u> Min cutting radius right: <u>6 ft</u>	\$ _____

CCD EXHIBIT B - PO# 00024920 - Continued

Formal Bid # 28558
One (1) Rotomill/Coldplanner

E.	<p>Milling Requirements:</p> <ol style="list-style-type: none"> 1. Milling width: min. 2.2 meters. 2. Cutting depth: infinitely variable from 0" to 13" min. 3. Cutting speed at 130 feet per minute at 1" to 1 ½" deep. 4. Computerized Load Control to adjust engine load and milling speed to optimize production 5. Cutting drum shall have 3 speed 100 RPM 109 RPM 118 rpm 	<p>Milling width: <u>13 in</u> Cutting depth: <u>13 in</u> Cutting speed: <u>130 ft/minute</u></p> <p><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p><input checked="" type="radio"/> YES <input type="radio"/> NO Indicate RPM Speeds: <u>100. 109. 118</u> Based on engine RPM</p>	\$ _____
F.	<p>Cutting Drum Housing Requirements:</p> <ol style="list-style-type: none"> 1) Drum housing side plates for normal milling. <ol style="list-style-type: none"> i) Hydraulic Cylinders for grade control, float, and hydraulic lift. 2) Mold Board <ol style="list-style-type: none"> i) Segmented section replaceable. abrasion resistant, carbide steel scraper wear edges, full width ii) Hydraulic lift cylinders with adjustable down pressure iii) Mold Board should be able to lock in one position or float 3) Drum Housing thickness and steel type <ol style="list-style-type: none"> i) Thickness ii) Type 4) Cutting drum mechanically driven through two 6 rib V belts. 5) Cutting drum belts shall be easy to replace. 6) Shall have a dry clutch to engage the cutting drum belts 7) Drum Service Rotation Tool 8) Shall include all necessary items including drives excluding the Cutting Drum. (Cutting Drum are listed in options) 9) Drum Installation Mandator 	<p><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p>Thickness: <u>.78 in</u> Type: <u>wear resistant steel, similar to AR400</u></p> <p><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p>YES <input checked="" type="radio"/> NO</p> <p>YES <input checked="" type="radio"/> NO</p>	\$ _____

CCD EXHIBIT B - PO# 00024920 - Continued

Formal Bid # 28558
One (1) Rotomill/Coldplanner

G.	Milling controls:		
	1. Automatic electronic cross slope control with manual over-rides.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	i Integrated at the Factory	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	2. Auto-level grade with position sensing hydraulic cylinders.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	i Integrated at the Factory	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	3. Auto-level grade with multiple sonic sensors and grade averaging to be used in conjunction with the position sensing hydraulic cylinders.		
	i Each sensor head shall have 5 transducers and average the reading	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	ii Sonic sensors shall be located on all four corners of the machine and be easily adjustable.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	iii Corner mounted sonic sensors shall be adjustable to be 16' 6" to 28' apart at the center line of the sensor	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	iv Integrated at the Factory	Min distance: <u>16ft 6in</u> Max distance: <u>28 ft</u>	
	4. Auto-Level Inboard grade ski	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	i Shall use an inboard mounted Hydraulic Cylinder with positioning sensor	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	ii Integrated at the Factory	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	5. Sonic grade sensing with +1/16' tolerance.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	i) 5 ceramic sensors	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	ii) Sensor averaging	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	6. Zero curbside clearance for curb and gutter cutting.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	i) Chassis shall provide unobstructed sides for viewing flush cuts.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	7. Controls shall be located in the:		
	i) Operator station	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	ii) Left Side of Machine		
	iii) Right Side of Machine	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	8. Controls shall have ramp in and out feature.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	9. Controls shall have auto plunge feature.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	10. Future integration of 3D milling.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	11. Controls shall be made by the machine manufacture.	<input checked="" type="radio"/> YES <input type="radio"/> NO	

\$ _____

CCD EXHIBIT B - PO# 00024920 - Continued

Formal Bid # 28558
One (1) Rotomill/Coldplanner

H.	<p>Conveyor system:</p> <ol style="list-style-type: none"> 1. Performance shall be capable of both discharging into a truck bed and windrowing onto the pavement. Shall be capable of side by side loading of two tractor/demolition trailers (10' height) in the profile lane and adjacent lane (left, right). Discharge of conveyor shall extend 12' or more beyond front edge of tracks. 2. Discharge conveyor shall be covered to prevent milled materials from spilling. 3. Hydraulic lifting of primary conveyor. 4. Hydraulic powered conveyor. 5. Swing left and right 60°. 6. Capacity up to 700 cu yd. an hr. min. 7. Collection and discharge belts seamless cleated design easy to replace. 8. Reversible for clean out purposes. 9. Non-Folding Conveyor 10. High Performance Dust Abatement System 11. Variable Speed Drive to match work load 12. Temporary Max Speed override to covey material a farther distance. 13. Hydraulic suspension and conveyor restraints shall be provided to prevent damage during transportation. 	<p style="text-align: center;"><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p style="text-align: center;"><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p style="text-align: center;"><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p style="text-align: center;"><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p style="text-align: center;"><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p style="text-align: center;"><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p style="text-align: center;"><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p style="text-align: center;"><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p style="text-align: center;"><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p style="text-align: center;"><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p style="text-align: center;"><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p style="text-align: center;"><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p style="text-align: center;"><input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p style="text-align: center;"><input checked="" type="radio"/> YES <input type="radio"/> NO</p>	<p style="text-align: right;">\$ _____</p>
I.	<p>Tank Capacities:</p> <ol style="list-style-type: none"> 1. Fuel: 317 gallons' minimum. 2. Hydraulic: 29 gallons' minimum. 3. Water: 898 gallons. 	<p>Fuel: <u>288.1</u> gallons</p> <p>Hydraulic: <u>29.4</u> gallons</p> <p>Water: 898 gallons</p>	<p style="text-align: right;">\$ _____</p>

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J.	<p>Hydraulic system to include:</p> <ol style="list-style-type: none"> 1. Hydraulic pumps shall be engine mounted to include: <ol style="list-style-type: none"> a. Propulsion. b. Conveyor. c. Milling drum drive. d. Auxiliary hydraulics. 2. Operating parameters: <ol style="list-style-type: none"> a. Operating pressure shall not exceed 5,000-psig. b. Operating rpm 1,900-rpm. c. Oil temperature 200°F without damage to unit. 3. Hydraulic oil cooler shall be located adjacent to the radiator 4. Hydraulic oil reservoir: <ol style="list-style-type: none"> a. 29-gallon minimum. b. Located for easy serviceability. c. Shut off valves at tank d. Site level indicator. e. Thermometer. f. Magnetic drain plug. 5. Low hydraulic oil sensor with an operator indication indicator light/audible alarm when the system is 5-gallons low. 6. Hydraulic filters "spin-on" type only for ease of service. <ol style="list-style-type: none"> a. Return line a-micron replaceable cartridge filter with vacuum gauge Installed between oil reservoir and hydraulic pump. b. Pressure line 3-micron filter. c. Suction line 100-micron. 7. Hydraulic test ports shall be installed on all hydraulic circuits for easy testing of each circuit using the Parker Serviceman SCM150 2-meter PDS2 hydraulic test kit. Vendor shall supply all required special fittings etc to assure hydraulic test kit will work with the equipment. . 8. Hydraulic oil cooler oil/ water type heat exchanger. 	<p> <input checked="" type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> YES <input checked="" type="radio"/> NO <input checked="" type="radio"/> YES <input type="radio"/> NO Operating Pressure: <u>5.800</u> Max Operating rpm: <u>3-1600, 1700, 1900</u> Oil Temp: <u>Yes</u> <input checked="" type="radio"/> YES <input type="radio"/> NO Gallon: <u>29.9</u> gallons <input checked="" type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> YES <input type="radio"/> NO <input checked="" type="radio"/> YES <input type="radio"/> NO </p>	<p>\$ _____</p>
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	<p>9. Hydraulic hoses Gates 5,000-psig rated working pressure with O ring fittings per SAE standards.</p> <p>10. Sight gauge for hydraulic fluid level</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>	
K.	<p>Water System:</p> <ol style="list-style-type: none"> 1. Tank corrosion protected. Corrosion protection warranted for life of the equipment. Cathodic protection is not approved. 2. Nozzle discharge at drum and conveyor to keep cutting tools cool and to suppress dust. 3. Optional nozzle discharge for dust control if available. 4. Hydrant hose 50' canvas Double Jacketed rubber lined 2-1/2" fire type fill hose with fire hydrant coupling. 5. Hydrant hose and hydrant wrench shall have locking secured storage compartment. 6. Water filter in-line between tank and pump. 7. Sight Gauge. 8. High/low pump pressure shut-off. 9. Shall have rear and side water fill locations. 	<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><input checked="" type="radio"/> YES NO</p> <p><input checked="" type="radio"/> YES NO</p> <p><input checked="" type="radio"/> YES NO</p>	<p>\$ _____</p>
L.	<p>Air compressor rated at 125-psig with air storage reservoir and a hose of appropriate length for pneumatic air tool use for quick change-out of cutting tools and other required maintenance.</p>	<p><input checked="" type="radio"/> YES NO</p>	<p>\$ _____</p>
M.	<p>Safety shut down system to completely shut down the machine including the engine. The system shall have shut down buttons clearly labeled and located for easy and fast operation. Safety button placement should be as follows:</p> <ol style="list-style-type: none"> 1. Operator station switch . 2. Four switches mounted on the side of the machine; one switch at each front and rear corner. 	<p><input checked="" type="radio"/> YES NO</p> <p><input checked="" type="radio"/> YES NO</p>	<p>\$ _____</p>
N.	<p>Lubrication manifold, central location and easy to use for lubricating all hard to reach location.</p>	<p><input checked="" type="radio"/> YES NO</p>	<p>\$ _____</p>

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O.	Oil sampling valves: 1. Engine. 2. Transmission. 3. Hydraulic oil. 4. Coolant	<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.	Ecology drains to prevent spillage for engine, transmission, hydraulics, radiator, fuel and radiator.	<input checked="" type="radio"/> YES NO	\$ _____
Q.	Keys, Ignition, Door, and Other, 6 sets.	<input checked="" type="radio"/> YES NO	\$ _____
R.	One (1) complete set of OEM filters to change and service all rotomill/coldplanner systems, engine, transmission, hydraulic and cab.	<input checked="" type="radio"/> YES NO	\$ _____
Base Vehicle SUB TOTAL COST			\$ <u>Included</u> _____

2.2 Engine

A.	Description of Equipment	Offered Equipment	Cost
	Diesel engine, 6-cylinder. 4 stroke turbo-charged electronically controlled direct injected diesel engine with gross horsepower of 755hp minimum at 1900-rpm. Minimum Peak Torque of 1950-1b/R at 1400rpm. Engine shall meet current EPA standard.	Make: <u>Caterpillar</u> Model: <u>C-18</u> HP: <u>755</u> @ <u>1800</u> rpm Torque: <u>2633</u> @ <u>1400</u> rpm	\$ _____
B.	Exhaust stack with rain cap and heat shield.	YES <input checked="" type="radio"/> NO	\$ _____
C.	Engine sound suppression to reduce noise to operator and crew.	<input checked="" type="radio"/> YES NO	\$ _____
D.	Engine Compartment hood shall easily open to provide access to the engine and other major components. Hood opening shall be by: i. Automatic using electric driven hydraulic cylinders or approved equal. 2. Manually using hand pump operated cylinders.	<input checked="" type="radio"/> YES NO <input checked="" type="radio"/> YES NO	\$ _____

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E.	<p>Wireless Equipment Monitoring System:</p> <ol style="list-style-type: none"> 1. The system shall provide the following information in real time: <ol style="list-style-type: none"> a. Location and time of day operation b. Service meter readings and service requirements c. Fuel level d. Water temperature e. Working hours f. Load frequency g. Abnormality/malfunction codes h. Average hourly fuel consumption 2. The "Wireless Equipment Monitoring System shall have the first 5 years of service included in the equipment price (free). 3. Cost for each additional year of service for as long as the City owns the equipment. 	<p><input checked="" type="radio"/> YES NO</p> <p><input checked="" type="radio"/> YES NO Additional Yearly Service Cost: \$ <u>400.00</u></p>	<p>\$ _____</p>
F.	<p>High ambient cooling package to include:</p> <ol style="list-style-type: none"> 1. Radiator shall have a heavy protective grill guard to protect the radiator from damage. 2. 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. 3. Coolant protection shall be -34° F. 	<p><input checked="" type="radio"/> YES NO</p> <p><input checked="" type="radio"/> YES NO <input checked="" type="radio"/> YES NO</p>	<p>\$ _____</p>
G.	<p>Coolant Water Filter</p> <ol style="list-style-type: none"> 1. Spin on type. 	<p>YES <input checked="" type="radio"/> NO</p>	<p>\$ _____</p>
H.	<p>Engine Oil Filtration:</p> <ol style="list-style-type: none"> 1. Spin on type 	<p><input checked="" type="radio"/> YES NO</p>	<p>\$ _____</p>
I.	<p>Air Filtration:</p> <ol style="list-style-type: none"> 1. Dry type radial-seal air cleaner with primary and secondary element. 2. Integral engine pre-cleaner system. 3. Dust evacuator system. 4. Air inlet restriction indicator located in operator station. 	<p>Type of Air Filtration: <u>Dry Type Radial Seal</u></p> <p>Yes</p> <p><input checked="" type="radio"/> YES NO <input checked="" type="radio"/> YES NO <input checked="" type="radio"/> YES NO</p>	<p>\$ _____</p>

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J.	Engine Fan: 1. Hydraulic fan drive. 2. Automatic reversing fan to blow out the radiator. 3. Fan guard to prevent injury.	Type of Fan Drive: Hydraulic Fan Drive _____ YES <input checked="" type="radio"/> NO <input type="radio"/> YES <input checked="" type="radio"/> NO <input type="radio"/>	\$ _____
K.	Engine oil drain easy to access from ground level on outside of frame.	YES <input checked="" type="radio"/> NO <input type="radio"/>	\$ _____
L.	Electrical system 1) 24-volt DC 2) 100-amp Alternator 3) 12-volt circuit tap for operation 12volt accessories at the dash Batteries: 4) Batteries Two,12-volt in series with 1400 CCA each, maintenance free type. 5) Electric horn. 6) Remote jump start easy access connector (male and female ends shall be provided)	YES <input checked="" type="radio"/> NO <input type="radio"/> YES <input checked="" type="radio"/> NO <input type="radio"/> YES <input checked="" type="radio"/> NO <input type="radio"/> YES <input checked="" type="radio"/> NO <input type="radio"/> YES <input checked="" type="radio"/> NO <input type="radio"/> YES <input checked="" type="radio"/> NO <input type="radio"/>	\$ _____
Engine SUB TOTAL COST			\$ <u>Included</u> _____

2.3 Transmission and Drivetrain

	Description of Equipment	Offered Equipment	Cost
A.	Track drive system: 1. Four Track Drive motors with planetary gear reduction and automatic traction control. 2. Tracks shall be 64 ½" x 12" 3. Shall have easily replaceable polyurethane pads	YES <input checked="" type="radio"/> NO <input type="radio"/> YES <input checked="" type="radio"/> NO <input type="radio"/> YES <input checked="" type="radio"/> NO <input type="radio"/>	\$ _____

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B.	Brakes: 1. Service brakes dynamic with drag on the hydraulic drive system. Parking brake automatic disc type on tracks.	<input checked="" type="radio"/> YES <input type="radio"/> NO	\$ _____
Transmission and Drivetrain SUB TOTAL COST			\$ <u>Included</u> _____

2.4 Controls

	Description of Equipment	Offered Equipment	Cost
A.	Operator controls:		
	1. Dual left and right-side operator station controls.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	2. Dual left and right operators seating:		
	i) Fully adjustable to insure good view of work being performed.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	ii) Adjustable suspension.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	3. Operator Station Controls shall include:	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	i) Steering	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	ii) Propel	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	iii) Auto Throttle Control	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	iv) Horn	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	v) Rotor	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	vi) Grade	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	vii) Conveyor	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	viii) Engine	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	ix) Dust Abatement	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	x) Canopy	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	4. Operator Ground Controls shall include:	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	i) Grade	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	ii) Conveyor	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	iii) Horn	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	iv) Rotor Box	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	v) Rotor Service Rotation	<input checked="" type="radio"/> YES <input type="radio"/> NO	

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5. All controls and gauges shall be illuminated and ergonomic position for operator ease of operation or operators from 5'.0" to 6'-6" tall.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
6. Operators platform shall provide excellent visibility forwards, to the sides and to the rear.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
7. Operators floor shall be vibration dampened to effectively reduce vibration transmission into the operator's feet.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
8. Operators station must be a walk-thru design with entrance and egress on both left and right	<input checked="" type="radio"/> YES <input type="radio"/> NO	
9. Operator station electro hydraulic powered canopy that does not block the operators view when stowed.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
i) Canopy collapse in on left and right side for clearance of obstacles in the up or stowed position.		
10. Controls and gauges shall have vandalism protection cover.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
11. Instrumentation shall be a LCD Touch Screen Display separate from the grade control.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
12. Instrumentation minimum shall be:	<input checked="" type="radio"/> YES <input type="radio"/> NO	
a. Engine oil pressure.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
b. Engine water temperature.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
c. Automatic engine protection shutdown for low engine oil pressure or high coolant temperature.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
d. Engine tachometer.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
e. Engine hour meter.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
f. Fuel level gauge.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
g. Water Level gauge.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
h. Engine high coolant temperature light and buzzer.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
i. Engine low oil pressure light and buzzer.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
j. Hydraulic high temperature light and buzzer.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
k. Hydraulic oil temperature gauge.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
l. On board, self-diagnostic for all machine functions including grade control.	<input checked="" type="radio"/> YES <input type="radio"/> NO	
	<input checked="" type="radio"/> YES <input type="radio"/> NO	\$ _____

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		<input checked="" type="radio"/> YES NO	
B.	Machine shall have 4 steering modes:		
	1. Front tracks only.	<input checked="" type="radio"/> YES NO	
	2. Rear tracks only.	<input checked="" type="radio"/> YES NO	
	3. Crab steer, both front and rear tracks turn in same direction.	<input checked="" type="radio"/> YES NO	
	4. Coordinated steering, both front and rear tracks turn in opposite directions.	<input checked="" type="radio"/> YES NO	\$ _____
C.	Steering Guide to allow operator too guide machine close to obstacles.	<input checked="" type="radio"/> YES NO	\$ _____
D.	Remote High-Quality Factory Integrated Color Safety Camera System:	Make: <u>CAT</u>	
	1) Camera:	Model: <u>CAT</u>	
	a. Rear of rotomill mounted camera wired into rotomill reverse circuit to automatically turn on when the rotomill is shifted into reverse:	<input checked="" type="radio"/> YES NO	
	b. Camera shall be in water proof housing. Housing shall be able to be pressure washed when washing vehicle.	<input checked="" type="radio"/> YES NO	
	c. Camera shall be automatically heated for cold weather operation.	<input checked="" type="radio"/> YES NO	
	d. Resolution 380 TV lines horizontal.	<input checked="" type="radio"/> YES NO	
	e. Day night sensor	<input checked="" type="radio"/> YES NO	
	2) Monitor LCD, 7" flat screen:	Make: <u>CAT</u>	
	a. Monitor shall be in a very easy to see location that requires as little as possible head movement and also with a little as possible front windshield obstruction. The monitor location shall be mutually agreed upon.	Model: <u>CAT</u>	
	b. Day night sensor	Location: <u>Operator Console</u>	
	c. Resolution 270,000 pixels or better.	<input checked="" type="radio"/> YES NO	\$ _____
	d. Picture control to include brightness, contrast and image.	Resolution: <u>270,000+</u>	
	e. Picture shall be crisp and clear at all times.	<input checked="" type="radio"/> YES NO	
	f. Anti-glare sun shield and hood.	<input checked="" type="radio"/> YES NO	
	g. Swivel mounting bracket.	<input checked="" type="radio"/> YES NO	
h. Dimmer switch to adjust for day and night viewing.	<input checked="" type="radio"/> YES NO		
i. Water Proof able to withstand a splash	<input checked="" type="radio"/> YES NO		

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j. May be the same screen used for engine diagnostics. 3) All wiring shall be totally sealed with sealed locking connections to prevent corrosion. 4) All wiring shall be routed to prevent damage to the wiring. Camera system must be installed at the factory and fully integrated in to the unit.	<input checked="" type="radio"/> YES NO <input checked="" type="radio"/> YES NO <input checked="" type="radio"/> YES NO	
Controls SUB TOTAL COST		\$ <u>Included</u> _____

2.5 Exterior

Description of Equipment	Offered Equipment	Cost
A. All deck walking areas shall have non-skid decking or grating.	<input checked="" type="radio"/> YES NO	\$ _____
B. Ladders with slip-resistant Rungs.	<input checked="" type="radio"/> YES NO	\$ _____
C. Lifting Eyes on all four comers of the frame will be used to tie down rotomill/coldplanner onto the trailer for transporting.	<input checked="" type="radio"/> YES NO	\$ _____
D. Cutting Bit trays located in between the rear tracks.	<input checked="" type="radio"/> YES NO	\$ _____
E. Mirrors exterior convex mirrors one per corner.	<input checked="" type="radio"/> YES NO	\$ _____
F. Fire Extinguisher 20-1b mounted outside the cab for easy access and lockable to prevent theft.	<input checked="" type="radio"/> YES NO	
G. LED Warning Beacons 1) 2 required	<input checked="" type="radio"/> YES NO	\$ _____
H. Truck loading signal light. RED/GREEN	<input checked="" type="radio"/> YES NO	\$ _____
I. Back-up alarm. 1. Back-up alarm, 107 dBa, SAE type B, fully sealed, wired into vehicle's backup light system using OEM plug-in adapter. 2. The alarm shall be mounted in a protected location to prevent damage. 3. Pressure washing the vehicle shall not damage the back-up alarm.	dBa Rating: <u>87-112 - meets all standards</u> <input checked="" type="radio"/> YES NO <input checked="" type="radio"/> YES NO <input checked="" type="radio"/> YES NO	\$ _____
J. Lights 24-volt DC. Integrated at the factory. (non factory lighting will not be accepted)		

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	1. Four permanent mounted lights 2. 10 pole mounted lights 3. Factory integrated.	<input checked="" type="radio"/> YES NO <input checked="" type="radio"/> YES NO <input checked="" type="radio"/> YES NO	\$ _____
K.	DOT-C2 Standard No. 108 reflective conspicuity tape shall be applied full length to rear and sides of the body.	Location: <u>TBD</u>	\$ _____
L.	Vehicle signage shall be applied as follows: 1. "Slow Moving Vehicle", rear of machine, DOT approved.	<input checked="" type="radio"/> YES NO	\$ _____
Exterior SUB TOTAL COST			\$ <u>Included</u> _____
Complete Unit SUB TOTAL COST			\$ <u>\$562,162.00</u> _____
Sum of Sections: 2.1, 2.2, 2.3, 2.4, and 2.5			

3.0 Dealer Provided Optional Equipment and Quality Standards

3.1 Electrical Systems:

- A. All non-factory wire connections (splices, connectors, etc.) shall be soldered and shrink tube insulated with adhesive/meltable sealant, thick wall polyolefin shrink tubing (3M EPS-300 or equal). No non-factory crimp connections allowed. No cutting or splicing into the factory wiring harnesses allowed.
- B. All accessories (strobe lights, operator controls, light bar, etc.) shall be wired through a 12-vDC constant-duty solenoid and controlled by bus bar mounted and permanently labeled auto-resetting circuit breakers. The solenoid shall be wired to the key switch.
- C. All dealer/vendor installed items, which require connecting into the vehicle's electrical system shall be done using an OEM factory modified wiring kit whenever possible.
- D. All non-factory wiring shall be encased in a totally sealed wiring harness (no plastic split loom) to prevent corrosion from magnesium chloride. The wiring harness shall be well secured to the truck with neoprene aircraft stainless steel tubing clamps. Rubber grommets shall be used at all areas where the wiring passes through areas that could damage the wiring. Unprotected wiring in any application is unacceptable.
- E. Electrical cables and wiring harnesses shall be neatly run and clamped with neoprene aircraft stainless steel tubing clamps. Clamp spacing shall not exceed 18-inches.
- F. Dielectric grease shall be applied to all electrical plug terminals and connections to reduce corrosion.

3.2 Fasteners:

- A. Grade 5 (SAE or USS) or 8.8 (metric) minimum, bolts, nuts, washers minimum. Vendor shall use Grade 8 or 10.9 for all critical areas or where good engineering practice suggests.
- B. All fasteners shall be zinc plated to prevent corrosion.
- C. Anti-Seize: all fasteners shall have Fel Pro C5A Anti-Seize compound applied before assembly to prevent corrosion, rusting, galling and aid in equipment servicing and repair.
- D. All fasteners shall be of appropriate length, diameter and strength (grade) for the application,
- E. Bolts and screws shall extend a minimum of 1-1/2 threads beyond the nut and maximum of 6 threads past the nut.
- F. Flat washers shall be used under bolt heads and nuts.
- G. Lock nuts (nylon insert, metal, slotted, castle nuts) shall be used lock-washers are not acceptable.

3.3 Hydraulic Systems:

- A. All hydraulic circuits shall be pressure relief protected.
- B. Hydraulic hoses shall be Gates M3T Megaflex (tight bend radius) 2-wire braid hose meeting SAE-100R16 specifications where the hose meets operational criteria or approved equal.
- C. Hydraulic hoses shall have swivel fittings on both ends. Hose ends shall be located to facilitate easy component replacement.
- D. High-pressure hydraulic hose shall not be used for suction lines.
- E. Close/tight radius 90° elbow fittings shall not be used if short, medium or long drop steel stem 90° elbow fittings can be used. Over use of 90° elbows shall not be permitted.
- F. Hydraulic hoses and rigid lines shall be run parallel where possible; routing shall look neat and well planned.
- G. Rubber cushioned metal hydraulic clamps shall be used on all hydraulic ridged lines and hoses at proper intervals for supporting the line/hose 36" maximum distance. Clamps shall be securely mounted to the equipment.
- H. Hydraulic hoses and lines shall not be routed near exhaust, close to rotating components or over, around or through sharp edges. . Rubber grommets shall be used at all areas where the hydraulic lines through areas that could damage the lines.
- I. Galvanized fittings and thread tape shall not be used.
- J. Hydraulic hoses shall be covered with protective spiral nylon anti-chaffing wrap or sock type protective sleeves at all areas where chafing/rubbing could cause premature wear/failure.
- K. Hydraulic oil tanks shall magnetic drain plug, oil level and temperature gauge.
- L. Hydraulic hoses over 4' long shall be labeled on both ends for easy identification.
- M. Shut off valves ¼-turn on each side of filter.

3.4 All fabricated parts, brackets etc. shall have all sharp corners, edges etc. radiused or rounded for safety.

3.5 Welds:

- A. All welds shall meet AWS (American Welding Society) standards for the type weld, material joined and welding method.
- B. Weld joints shall have proper design and fit for the application.
- C. Welds joints shall have proper penetration and be smooth in appearance with no undercuts or overlaps at edge of weld.
- D. Weld joints shall be properly prepared with cut ends ground to remove all slag, create a smooth surface and beveled end.

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3.6 Optional Equipment:

A.	Description of Equipment	Offered Equipment	Cost
	Drum / Rotor	Make: <u>Kennametal</u> Model: <u>NS300</u> Meters: <u>2.2</u> Tooth/Pick Spacing: <u>15</u> Number of Picks: <u>177</u>	
1)	2.2 Meter Kennametal NS300 Cutting Drum with 15mm tooth/pick spacing loaded with picks. Picks and holders shall be easy to change in the field. a) Tooth/Pick Spacing b) Number of Picks		<u>\$34,697.00</u>
2)	2.2 Meter Kennametal NS300 Cutting Drum with 7mm tooth/pick spacing loaded with picks. Picks and holders shall be easy to change in the field. a) Tooth/Pick Spacing b) Number of Picks	Make: <u>Kennametal</u> Model: <u>NS300</u> Meters: <u>2.2</u> Tooth/Pick Spacing: <u>7</u> Number of Picks: <u>339</u>	<u>\$47,869.00</u>
3)	2.2 Meter Caterpillar Cutting Drum with 15mm tooth/pick spacing loaded with picks. Picks and holders shall be easy to change in the field. a) Tooth/Pick Spacing b) Number of Picks	Make: <u>CAT</u> Model: <u>G20 Standard</u> Meters: <u>2.2</u> Tooth/Pick Spacing: <u>15</u> Number of Picks: <u>193</u>	<u>\$40,222.00</u>
4)	2.2 Meter Caterpillar Cutting Drum with 8mm tooth/pick spacing loaded with picks. Picks and holders shall be easy to change in the field. a) Tooth/Pick Spacing b) Number of Picks	Make: <u>CAT</u> Model: <u>G20 Fine</u> Meters: <u>2.2</u> Tooth/Pick Spacing: <u>8</u> Number of Picks: <u>308</u>	<u>\$58,800.00</u>
5)	2.5 Meter Kennametal NS300 Cutting Drum with 15mm tooth/pick spacing loaded with picks. Picks and holders shall be easy to change in the field. a) Tooth/Pick Spacing b) Number of Picks	Make: <u>Kennametal</u> Model: <u>NS300</u> Meters: <u>2.5</u> Tooth/Pick Spacing: <u>15</u> Number of Picks: <u>197</u>	<u>\$37,297.00</u>
6)	2.5 Meter Kennametal NS300 Cutting Drum with 7mm tooth/pick spacing loaded with picks. Picks and holders shall be easy to change in the field. a) Tooth/Pick Spacing b) Number of Picks	Make: <u>Kennametal</u> Model: <u>NS300</u> Meters: <u>2.5</u> Tooth/Pick Spacing: <u>7</u> Number of Picks: <u>377</u>	<u>\$51,964.00</u>
7)	2.5 Meter Caterpillar Cutting Drum with 15mm tooth/pick spacing loaded with picks. Picks and holders shall be easy to change in the field. a) Tooth/Pick Spacing b) Number of Picks	Make: <u>CAT</u> Model: <u>G20 Standard</u> Meters: <u>2.5</u> Tooth/Pick Spacing: <u>15</u> Number of Picks: <u>211</u>	<u>\$43,038.00</u>

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One (1) Rotomill/Coldplanner

Description of Equipment	Offered Equipment	Cost
8) 2.5 Meter Caterpillar Cutting Drum with 7mm tooth/pick spacing loaded with picks. Picks and holders shall be easy to change in the field. a) Tooth/Pick Spacing b) Number of Picks	Make: _____ Model: _____ Meters: _____ Tooth/Pick Spacing: _____ Number of Picks: _____	\$ <u>N/A</u>
B. Cutting Drum Housing for 2.5 meter Cutting Drum: 1) Drum housing side plates for normal milling. i) Hydraulic Cylinders for grade control, float, and hydraulic lift. 2) Mold Board i) Segmented section replaceable. abrasion resistant, carbide steel scraper wear edges, full width ii) Hydraulic lift cylinders with adjustable down pressure iii) Mold Board should be able to lock in one position or float 3) Drum Housing thickness and steel type i) Thickness ii) Type 4) All necessary hardware, hydraulics, electrical, and miscellaneous items need to install 2.5 meter Cutting Drum Housing	<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 Thickness: <u>.78 inches</u> Type: <u>wear resistant steel, similar to AR400</u> <input checked="" type="radio"/> YES NO	\$ _____

4.0 Manuals/Equipment

Item	Description of Equipment	Offered Equipment	Cost
Training DVD or CD	One DVD or CD demonstrating and explaining the safe and proper use of the vehicle/equipment. 1. Equipment and Attachments.	<input checked="" type="radio"/> Yes No	\$ _____
Operators Manual Paper	One book per vehicle/equipment with "safe equipment operation" section for each component. 1. Equipment and Attachments.	Yes <input checked="" type="radio"/> No Included in SIS System	\$ _____
Service/Maintenance Manual Paper	Two complete sets per Contract (not per vehicle); binder required, A. Manuals shall be provided for: A. Equipment and Attachments	Yes <input checked="" type="radio"/> No Included in SIS System	\$ _____

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	<p>B. Manuals shall include complete and detailed information for maintenance of the equipment, including general information, specifications, troubleshooting guide, lubrication and required adjustments.</p> <p>C. 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>Yes <input checked="" type="radio"/> No <input type="radio"/> Included in SIS System</p> <p>Yes <input checked="" type="radio"/> No <input type="radio"/> Included in SIS System</p>	<p>\$ _____</p>
<p>Service/ Maintenance Manual on CD rom or DVD</p>	<p>One complete set; per Contract (not per vehicle)</p> <ol style="list-style-type: none"> 1. Manuals shall be provided for: <ol style="list-style-type: none"> A. Equipment and Attachments 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. 4. New CD roms or DVDs shall be provided when information is updated, superseded or changed. 	<p>Yes <input checked="" type="radio"/> No <input type="radio"/> Included in SIS System</p> <p>Yes <input checked="" type="radio"/> No <input type="radio"/> Included in SIS System</p> <p>Yes <input checked="" type="radio"/> No <input type="radio"/> Included in SIS System</p> <p>Yes <input checked="" type="radio"/> No <input type="radio"/> Included in SIS System</p>	<p>\$ _____</p>
<p>Service/ Maintenance Manual on Internet Access, or Other Electronic Media</p>	<p>One complete set; per Contract (not per vehicle)</p> <ol style="list-style-type: none"> 1. Vendor shall provide access to the site for the length of time that the City owns the equipment at a one time up front cost to the City. 2. Internet information 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 	<p>Yes <input checked="" type="radio"/> No <input type="radio"/> Included in SIS System</p> <p>Yes <input checked="" type="radio"/> No <input type="radio"/> Included in SIS System If other Specify: _____</p> <p>Yes <input checked="" type="radio"/> No <input type="radio"/> Included in SIS System</p>	<p>\$ _____</p>

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	have separate color coded schematics for each equipment function to show the flow of both electrical current and hydraulic oil.		
Parts Manual Paper	Two complete sets, per Contract (not per vehicle) binders required, 1. Manuals shall be provided for: A. Equipment and Attachments 2. Illustrated parts book shall be furnished containing data so that part numbers can be readily found for each system.	Yes <input type="radio"/> Yes <input type="radio"/>	<input checked="" type="radio"/> No Included in SIS System <input checked="" type="radio"/> No Included in SIS System \$_____
Parts Manual on CD rom or DVD	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. 1. Information shall be provided for: A. Equipment and Attachments 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. 3. New CD roms or DVDs shall be provided when information is updated, superseded or changed.	Yes <input type="radio"/> Yes <input type="radio"/>	<input checked="" type="radio"/> No Included in SIS System <input checked="" type="radio"/> No Included in SIS System \$_____
		Yes <input type="radio"/>	<input checked="" type="radio"/> No Included in SIS System

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Parts Manual on Internet Access, or Other Electronic Media	<p>One complete subscription; per Contract (not per vehicle)</p> <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> A. Equipment and Attachments 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>Access Information: 7 days/week including holidays <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Yes <input checked="" type="radio"/> No Included in SIS System Yes <input checked="" type="radio"/> No Included in SIS System</p> <p>Yes <input checked="" type="radio"/> No Included in SIS System If other Specify: _____</p> <p>Yes <input checked="" type="radio"/> No Included in SIS System</p>	\$ _____
New Equipment Check-in Form:	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>	\$ _____

4.1 Operator and Mechanics Training

Item	Description of Equipment	Offered Equipment	Cost
On Site Equipment Manufacturers Training	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.	Yes _____ _____ _____	\$ _____
Fleet Maintenance Training Manager	Mr. Charlie Pletcher Telephone: 720.865.3952 Contact time: 8:00 am to 3:00 pm M-F	Yes _____ _____ _____	
Training Requirements	Training shall consist of factory training materials, classroom and actual field training on the equipment for the equipment operators and supervisors.	Yes _____ _____ _____	\$ _____

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On Site Mechanics Training	On site mechanics training shall be 1 class, approximately 8 hours, day shift total provided at City facilities. The training shall cover maintenance and service procedures, trouble shooting and use of manuals.	Yes _____ _____ _____	\$ _____
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5.0 Warranty

5.1 Warranty Requirement

WARRANTY (Table 1)		Complies (Y or N/A)
1.	Warranty is to be a minimum of 3-years/5,000-hours on the entire equipment and 18-months unlimited hours on the engine. The standard factory warranty plan shall be provided as an attachment to your bid proposal	Y
2.	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
3.	If during the standard warranty period the machine is down for 72 consecutive hours the vendor shall supply the City a comparable loaner Rotomill at "No Cost" to the City until the City unit is repaired and back in service.	Y
4.	Warranty shall start when the City places the vehicle into service NOT on the delivery date	Y
5.	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
6.	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
7.	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
8.	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
9.	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 \$48.00/hour. (Enter a response of N/A if not available)	Y
10.	The bidder shall respond to request for warranty assistance within twenty-four (24) hours.	Y
11.	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
12.	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	Y

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	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
13.	This warranty in Table 1 and Table 2, is IN ADDITION to factory warranties on the vehicle and components	Y

5.2 Fleet Defects

Fleet Defects (Table 2)	
A.	Definition: 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.	Remedy: 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.	Exceptions: 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.	Mitigation: 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.	Outside Metro-Denver: 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.	Expired Warranties: 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.

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5.3 Warranty Options

		WARRANTY Options (Table 3)			
	Cost of Extended Warranties	Please indicate in the columns below the additional cost of an extended warranty for all applicable components listed in the left hand column.			
		Inc = Included		N/A = Not available	
		Four Years	Five Years		Comments
A.	Frame/Body		Inc		
B.	Engine		Inc		
C.	Drive Train		Inc		
D.	Suspension		Inc		
E.	Hydraulics		Inc		
F.	a. Pumps		Inc		
G.	b. Motors		Inc		
H.	c. Tanks		Inc		
I.	d. Valves		Inc		
J.	e. Controls		Inc		
K.	Electrical Components		Inc		
L.	Bucket		Inc		
M.	Other		Inc		
N.	Notes:				

5.4 Warranty Service Location: Warranty repair parts and service shall be available locally at an established factory authorized dealership. The dealership must have a minimum of 1-year experience as a factory authorized vendor for like equipment being bid. Warranty parts and repairs shall be available and supplied within 8-hours.

Rotomillr:	Dealership Name: <u>Wagner Equipmnet Co</u>	Telephone #: <u>303 739-3000</u>
	Street Address: <u>18000 Smith Rd</u>	City: <u>Aurora</u>
Sundries:	Dealership Name: _____	Telephone #: _____
	Street Address: _____	City: _____

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Formal Bid # 28558
One (1) Rotomill/Coldplanner

6.0 Vehicle Delivery

6.1 Delivery of Completed Unit

<p style="text-align: center; margin: 0;">PROVIDE NUMBER OF DAYS REQUIRED FOR DELIVERY OF COMPLETED ROTOMILL/COLDPLANNER TO BE DELIVERED TO CITY AND COUNTY</p>	<p style="margin: 0;">84 <small>DAYS</small></p>
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7.0 Complete Vehicle Cost

<p>Include into Complete Unit Total Cost:</p> <ul style="list-style-type: none"> Section 2.1 – Base Vehicle Section 2.2 – Engine Section 2.3 – Transmission and Drivetrain Section 2.4 – Controls Section 2.5 - Exterior <p>Do Not Include into Unit Total Cost:</p> <ul style="list-style-type: none"> Section 3.6 – Optional Equipment Section 4.0 - Manuals/Equipment Section 4.1 – Operator and Mechanics Training Section 5.3 – Warranty Options 	<p style="text-align: right; margin: 0;">TOTAL COST</p> <p>Authorized Signature:</p> <p style="margin-left: 20px;"><i>Ken Hearn</i></p> <hr style="width: 80%; margin-left: 20px;"/>	<p style="margin: 0;">\$ \$562,162.00</p> <p style="margin: 0; font-size: small;">Extended Warranty Included</p>
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CITY PO EXHIBIT
City and County of Denver
Fleet Management
Vendor Supplied Information Data

City Unit(s) # _____

(City Use Only)

ENTER CITY PURCHASE ORDER NUMBER: _____-0 0 0 0 0 0 _____
Examples: PWOPS-0000012345, POLIC-0000001234, FIRES-000001234

The following underlined forms and information are REQUIRED for new vehicle deliveries:

- Copy of entire Purchase Order (all pages)
- Original MSO (Manufacturers Statement of Origin) – is required for all vehicles except off-road and construction equipment. May receive one for some off road equipment if manufacturer issues one.
Name of purchaser: **City and County of Denver**
Address: **201 W. Colfax Ave. Dept. 304**
Denver, CO 80202
- Secured Dealer Bill of Sale (DR2407) – IN STATE ONLY – Required for on the road vehicles Such as cars, pickup[s], vans and any vehicle under 16,000 GVWR. Not needed if odometer Section is filled out and signed on MSO. Not required on vehicles over 16,000GVWR LBS.
- Application for Title and Registration (DR2395) – Required for all on-road vehicles and trailers.
- Verification of Vehicle Identification Number (DR2698) – Required for all Vehicles coming from an out of state dealer, incomplete vehicle. I.E. Cab and Chassis.
- Statement of Fact (DR2444) - Required on all vehicles with modifications to the cab and chassis. Such as a body crane, auxiliary engine, etc. The statement of fact must include the modifications made and include VIN numbers of chassis and equipment.
- Special Mobile Machinery Form (DR2689) - Required on all off road and Construction equipment. I.E. Front end loaders, tractors, skid steer loaders, Mowers, air compressors, motor graders, etc.
- Weight slip required - (on all incomplete vehicles that are made into a complete vehicle) – and all off-road equipment and construction type equipment. (Front end loaders, sweepers, graders, air compressors, rollers, etc.).
- Temporary License Plate – Required for all on-road vehicles. Not required for off road Equipment.
- Original Dealer Invoice – Required for all vehicles on and off the Road.
- Receipt or Contract for Optional Warranty – Only if spec or called out on P.O.
- Shop and Parts manuals (as required) (CD or electronic form preferred) – Only if spec or show as a line item of P.O.

Dealer Signature: _____ Date: _____