

INVITATION TO BID

Bid Invitation Number: **119-2011**

Date of Issue: **11/07/2011**

Sealed bids will be received in the office of the Division of Central Purchasing, 200 East Main Street, Lexington, Kentucky, until **2:00 PM**, prevailing local time on **11/21/2011**. Bids must be received by the above-mentioned date and time. Mailed bids should be sent to:

**Division of Central Purchasing
200 East Main Street, Room 338
Lexington, KY 40507, (859) 258-3320**

The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.

All bids must have the company name and address, bid invitation number, and the commodity/service on the outside of the envelope.

Bids are to include all shipping costs to the point of delivery located at: 669 Byrd Thurman Rd., Lexington, KY

Bid Security Required: ☐ Yes ☒ No Performance Bond Required: ☐ Yes ☒ No
Cashier Check, Certified Check, Bid Bond (Personal checks and company checks will not be acceptable).

Commodity/Service
V-Box Salt Spreaders
See specifications

<u>Check One:</u> <input checked="" type="checkbox"/> Bid Specifications Met <input type="checkbox"/> Exceptions to Bid Specifications. <i>Exceptions shall be itemized and attached to bid proposal submitted.</i>	<u>Proposed Delivery:</u> 60 to 75 days after acceptance of bid.
<u>Procurement Card Usage</u> <input type="checkbox"/> Yes The Lexington-Fayette Urban County Government will be using Procurement Cards to <input checked="" type="checkbox"/> No purchase goods and services and also to make payments. Will you accept Procurement Cards?	

Submitted by: J. Edinger & Son, Inc.

Firm

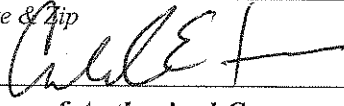
1010 Story Ave.

Address

Louisville, KY 40206

City, State & Zip

***Bid must be signed:
(original signature)***


Signature of Authorized Company Representative – Title

Charles R. Edinger, III President

Representative's Name (Typed or printed)

502-584-3524

502-584-7067

Area Code - Phone - Extension

Fax #

cre3edinger@iglou.com

E-Mail Address

The Affidavit in this bid must be completed before your firm can be considered for award of this contract.

AFFIDAVIT

Comes the Affiant, Charles R. Edinger, III, and after being first duly sworn under penalty of perjury as follows:

1. His/her name is Charles R. Edinger, III and he/she is the individual submitting the bid or is the authorized representative of

J. Edinger & Son, Inc.,

the entity submitting the bid (hereinafter referred to as "Bidder").

2. Bidder will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the time the bid is submitted, prior to award of the contract and will maintain a "current" status in regard to those taxes and fees during the life of the contract.

3. Bidder will obtain a Lexington-Fayette Urban County Government business license, if applicable, prior to award of the contract.

4. Bidder has authorized the Division of Central Purchasing to verify the above-mentioned information with the Division of Revenue and to disclose to the Urban County Council that taxes and/or fees are delinquent or that a business license has not been obtained.

5. Bidder has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky within the past five (5) years and the award of a contract to the Bidder will not violate any provision of the campaign finance laws of the Commonwealth.

6. Bidder has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Government Code of Ordinances, known as "Ethics Act."

7. Bidder acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circumstances described by a statute or ordinance defining an offense, that a person is aware or should have been aware that his conduct is of that nature or that the circumstance exists.

Further, Affiant sayeth naught.

STATE OF

Kentucky

COUNTY OF

Jefferson

The foregoing instrument was subscribed, sworn to and acknowledged before me

by Charles Robert Edinger III on this the 17 day
of Nov., 2011.

My Commission expires:

Notary Public, State at Large, KY
My commission expires May 4, 2015
Notary ID# 442293

J. Edinger
NOTARY PUBLIC, STATE AT LARGE

Please refer to Section II. Bid Conditions, Item "U" prior to completing this form.

I. GREEN PROCUREMENT

A. ENERGY

The Lexington-Fayette Urban County Government is committed to protecting our environment and being fiscally responsible to our citizens.

The Lexington-Fayette Urban County Government mandates the use of Energy Star compliant products if they are available in the marketplace (go to www.Energystar.gov). If these products are available, but not submitted in your pricing, your bid will be rejected as non-compliant.

ENERGY STAR is a government program that offers businesses and consumers energy-efficient solutions, making it easy to save money while protecting the environment for future generations.

Key Benefits

These products use 25 to 50% less energy

Reduced energy costs without compromising quality or performance

Reduced air pollution because fewer fossil fuels are burned

Significant return on investment

Extended product life and decreased maintenance

B. GREEN SEAL CERTIFIED PRODUCTS

The Lexington-Fayette Urban County Government is also committed to using other environmentally friendly products that do not negatively impact our environment. Green Seal is a non-profit organization devoted to environmental standard setting, product certification, and public education.

Go to www.Greenseal.org to find available certified products. These products will have a reduced impact on the environment and on human health. The products to be used must be pre-approved by the LFUCG prior to commencement of any work in any LFUCG facility. If a Green Seal product is not available, the LFUCG must provide a signed waiver to use an alternate product. Please provide information on the Green Seal products being used with your bid response.

C. GREEN COMMUNITY

The Lexington-Fayette Urban County Government (LFUCG) serves as a principal, along with the University of Kentucky and Fayette County Public Schools, in the Bluegrass Partnership for a Green Community. The Purchasing Team component of the Partnership collaborates on economy of scale purchasing that promotes and enhances environmental initiatives. Specifically, when applicable, each principal is interested in obtaining best value products and/or services which promote environment initiatives via solicitations and awards from the other principals.

If your company is the successful bidder on this Invitation For Bid, do you agree to extend the same product/service pricing to the other principals of the Bluegrass Partnership for a Green Community (i.e. University of Kentucky and Fayette County Schools) if requested?

Yes X No

II. Bid Conditions

- A. No bid may be withdrawn for a period of sixty (60) days after the date and time set for opening.
- B. No bid may be altered after the date and time set for opening. In the case of obvious errors, the Division of Central Purchasing may permit the withdrawal of a bid. The decision as to whether a bid may be withdrawn shall be that of the Division of Central Purchasing.
- C. Acceptance of this proposal shall be enactment of an Ordinance by the Urban County Council.
- D. The bidder agrees that the Urban County Government reserves the right to reject any and all bids for either fiscal or technical reasons, and to award each part of the bid separately or all parts to one vendor.
- E. Minor exceptions may not eliminate the bidder. The decision as to whether any exception is minor shall be entirely that of the head of the requisitioning Department or Division and the Director of the Division of Central Purchasing. The Urban County Government may waive technicalities and informalities where such waiver would best serve the interests of the Urban County Government.
- F. Manufacturer's catalogue numbers, trade names, etc., where shown herein are for descriptive purposes and are to guide the bidder in interpreting the standard of quality, design, and performance desired, and shall not be construed to exclude proposals based on furnishing other types of materials and/or services. However, any substitution or departure proposed by the bidder must be clearly noted and described; otherwise, it will be assumed that the bidder intends to supply items specifically mentioned in this Invitation for Bids.
- G. The Urban County Government may require demonstrations of the materials proposed herein prior to acceptance of this proposal.
- H. Bids must be submitted on this form and must be signed by the bidder or his authorized representative. Unsigned bids will not be considered.
- I. Bids must be submitted prior to the date and time indicated for opening. Bids submitted after this time will not be considered.
- J. All bids mailed must be marked on the face of the envelope:

"Bid on #119-2011"

and addressed to: Division of Central Purchasing
 200 East Main Street, Room 338
 Lexington, Kentucky 40507

The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.

- K. Bidder is requested to show both unit prices and lot prices. In the event of error, the unit price shall prevail.
- L. A certified check or Bid Bond in the amount of XX percent of the bid price must be attached hereto. This check must be made payable to the Lexington-Fayette Urban County Government, and will be returned when the material and/or services specified herein have been delivered in accordance with specifications. In the event of failure to perform within the time period set forth in this bid, it is agreed the certified check may be cashed and the funds retained by the Lexington-Fayette Urban County Government as liquidated damages. Checks of unsuccessful bidders will be returned when the bid has

been awarded.

- M. The delivery dates specified by bidder may be a factor in the determination of the successful bidder.
- N. Tabulations of bids received may be mailed to bidders. Bidders requesting tabulations must enclose a stamped, self-addressed envelope with the bid.
- O. The Lexington-Fayette Urban County Government is exempt from Kentucky Sales Tax and Federal Excise Tax on materials purchased from this bid invitation. Materials purchased by the bidder for construction projects are not tax exempt and are the sole responsibility of the bidder.
- P. All material furnished hereunder must be in full compliance with OSHA regulations.
- Q. If more than one bid is offered by one party, or by any person or persons representing a party, all such bids shall be rejected.
- R. Signature on the face of this bid by the Bidder or his authorized representative shall be construed as acceptance of and compliance with all terms and conditions contained herein.
- S. The Entity (regardless of whether construction contractor, non-construction contractor or supplier) agrees to provide equal opportunity in employment for all qualified persons, to prohibit discrimination in employment because of race, color, creed, national origin, sex or age, and to promote equal employment through a positive, continuing program from itself and each of its sub-contracting agents. This program of equal employment opportunity shall apply to every aspect of its employment policies and practices.
- T. The Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) requires that any county, city, town, school district, water district, hospital district, or other political subdivision of the state shall include in directly or indirectly publicly funded contracts for supplies, materials, services, or equipment hereinafter entered into the following provisions:

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age or national origin;*
- (2) The contractor will state in all solicitations or advertisements for employees placed by or on behalf of the contractors that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age or national origin;*
- (3) The contractor will post notices in conspicuous places, available to employees and applicants for employment, setting forth the provisions of the non-discrimination clauses required by this section; and*
- (4) The contractor will send a notice to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding advising the labor union or workers' representative of the contractor's commitments under the nondiscrimination clauses.*

The Act further provides:

KRS 45.610. Hiring minorities - Information required

- (1) For the length of the contract, each contractor shall hire minorities from other sources within the drawing area, should the union with which he has collective bargaining agreements be unwilling to supply sufficient minorities to satisfy the agreed upon goals and timetable.*

- (2) *Each contractor shall, for the length of the contract, furnish such information as required by KRS 45.560 to KRS 45.640 and by such rules, regulations and orders issued pursuant thereto and will permit access to all books and records pertaining to his employment practices and work sites by the contracting agency and the department for purposes of investigation to ascertain compliance with KRS 45.560 to 45.640 and such rules, regulations and orders issued pursuant thereto.*

KRS 45.620. Action against contractor - Hiring of minority contractor or subcontractor

- (1) *If any contractor is found by the department to have engaged in an unlawful practice under this chapter during the course of performing under a contract or subcontract covered under KRS 45.560 to 45.640, the department shall so certify to the contracting agency and such certification shall be binding upon the contracting agency unless it is reversed in the course of judicial review.*
- (2) *If the contractor is found to have committed an unlawful practice under KRS 45.560 to 45.640, the contracting agency may cancel or terminate the contract, conditioned upon a program for future compliance approved by the contracting agency and the department. The contracting agency may declare such a contractor ineligible to bid on further contracts with that agency until such time as the contractor complies in full with the requirements of KRS 45.560 to 45.640.*
- (3) *The equal employment provisions of KRS 45.560 to 45.640 may be met in part by a contractor by subcontracting to a minority contractor or subcontractor. For the provisions of KRS 45.560 to 45.640, a minority contractor or subcontractor shall mean a business that is owned and controlled by one or more persons disadvantaged by racial or ethnic circumstances.*

KRS 45.630 Termination of existing employee not required, when

Any provision of KRS 45.560 to 45.640 notwithstanding, no contractor shall be required to terminate an existing employee upon proof that that employee was employed prior to the date of the contract.

KRS 45.640 Minimum skills

Nothing in KRS 45.560 to 45.640 shall require a contractor to hire anyone who fails to demonstrate the minimum skills required to perform a particular job.

It is recommended that all of the provisions above quoted to be included as special conditions in each contract. In the case of a contract exceeding \$250,000, the contractor is required to furnish evidence that his work-force in Kentucky is representative of the available work-force in the area from which he draws employees, or to supply an Affirmative Action plan which will achieve such representation during the life of the contract.

- U. Any party, firm or individual submitting a proposal pursuant to this invitation must be in compliance with the requirements of the Lexington-Fayette Urban County Government regarding taxes and fees before they can be considered for award of this invitation and must maintain a "current" status with regard to those taxes and fees throughout the term of the contract. The contractor must be in compliance with Chapter 13 from the Code of Ordinances of the Lexington-Fayette Urban County Government. The contractor must be in compliance with Ordinance 35-2000 pursuant to contractor registration with the Division of Building Inspection. If applicable, said business must have a Fayette County business license.

Pursuant to KRS 45A.343 and KRS 45A.345, the contractor shall

- (1) Reveal any final determination of a violation by the contractor within the previous five year period pursuant to KRS Chapters 136 (corporation and utility taxes), 139 (sales and use taxes), 141 (income taxes), 337 (wages and hours), 338 (occupational safety and health of employees), 341 (unemployment and compensation) and 342 (labor and human rights) that apply to the contractor; and*
- (2) Be in continuous compliance with the above-mentioned KRS provisions that apply to the contractor for the duration of the contract.*

A contractor's failure to reveal the above or to comply with such provisions for the duration of the contract shall be grounds for cancellation of the contract and disqualification of the contractor from eligibility for future contracts for a period of two (2) years.

- V. Vendors who respond to this invitation have the right to file a notice of contention associated with the bid process or to file a notice of appeal of the recommendation made by the Director of Central Purchasing resulting from this invitation.

Notice of contention with the bid process must be filed within 3 business days of the bid/proposal opening by (1) sending a written notice, including sufficient documentation to support contention, to the Director of the Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his/her contention with the bid process. After consulting with the Commissioner of Finance the Chief Administrative Officer and reviewing the documentation and/or hearing the vendor, the Director of Central Purchasing shall promptly respond in writing findings as to the compliance with bid processes. If, based on this review, a bid process irregularity is deemed to have occurred the Director of Central Purchasing will consult with the Commissioner of Finance, the Chief Administrative Officer and the Department of Law as to the appropriate remedy.

Notice of appeal of a bid recommendation must be filed within 3 business days of the bid recommendation by (1) sending a written notice, including sufficient documentation to support appeal, to the Director, Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his appeal. After reviewing the documentation and/or hearing the vendor and consulting with the Commissioner of Finance and the Chief Administrative Officer, the Director of Central Purchasing shall in writing, affirm or withdraw the recommendation.

EQUAL OPPORTUNITY AGREEMENT

The Law

- Title VII of the Civil Rights Act of 1964 (amended 1972) states that it is unlawful for an employer to discriminate in employment because of race, color, religion, sex, age (40-70 years) or national origin.
- Executive Order No. 11246 on Nondiscrimination under Federal contract prohibits employment discrimination by contractor and sub-contractor doing business with the Federal Government or recipients of Federal funds. This order was later amended by Executive Order No. 11375 to prohibit discrimination on the basis of sex.
- Section 503 of the Rehabilitation Act of 1973 states:

The Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap.

- Section 2012 of the Vietnam Era Veterans Readjustment Act of 1973 requires Affirmative Action on behalf of disabled veterans and veterans of the Vietnam Era by contractors having Federal contracts.
- Section 206(A) of Executive Order 12086, Consolidation of Contract Compliance Functions for Equal Employment Opportunity, states:

The Secretary of Labor may investigate the employment practices of any Government contractor or sub-contractor to determine whether or not the contractual provisions specified in Section 202 of this order have been violated.

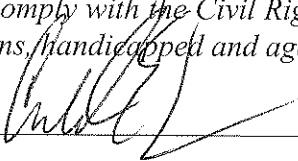
The Lexington-Fayette Urban County Government practices Equal Opportunity in recruiting, hiring and promoting. It is the Government's intent to affirmatively provide employment opportunities for those individuals who have previously not been allowed to enter into the mainstream of society. Because of its importance to the local Government, this policy carries the full endorsement of the Mayor, Commissioners, Directors and all supervisory personnel. In following this commitment to Equal Employment Opportunity and because the Government is the benefactor of the Federal funds, it is both against the Urban County Government policy and illegal for the Government to let contracts to companies which knowingly or unknowingly practice discrimination in their employment practices. Violation of the above mentioned ordinances may cause a contract to be canceled and the contractors may be declared ineligible for future consideration.

Please sign this statement in the appropriate space acknowledging that you have read and understand the provisions contained herein. Return this document as part of your application packet.

Bidders

I/We agree to comply with the Civil Rights Laws listed above that govern employment rights of minorities, women, Vietnam veterans, handicapped and aged persons.

Signature



J. Edinger & Son, Inc.

Name of Business

COMPLY
YES/NO

1.0 SCOPE OF BID

- 1.1 This specification describes the **minimum** requirements for a 304 stainless steel, hopper style "V-Box" salt spreader, hydraulically controlled from vehicle hydraulic system.

LFUCG intent is to purchase 2 units depending on available funding.

2.0 REQUIREMENTS

- 2.1 All units provided **shall** be primarily constructed from 304 stainless steel. All fasteners used in the assembly of units provided under this specification **shall** be stainless steel.
- 2.2 Overall Dimensions: Units **shall** have a nine foot (9') long hopper. Overall width at top of all units **shall** be not less than eighty-four inches (84") with sides sloping at an approximate angle of 45 degrees down to a conveyor floor approximately twenty-four inches (24") wide. Overall height **shall** be not less than forty-nine inches (49") as measured without hopper extensions mentioned elsewhere herein. All units **shall** be equipped with a material feed gate operated by a self-locking screw jack.
- 2.3 Hopper Construction: Sides and ends **shall** be constructed of ten gauge (10 ga.) 304 stainless steel with a **minimum** of three (3) ten gauge (10ga.) 304 stainless steel flanged body side supports. Lift hooks **shall** be provided at each corner of hopper for the express purpose of lifting the entire unit (empty).
- 2.4 Units **shall** have 20" urethane spinner. All spinner bracketry, discharge chute, baffles, and deflectors **shall** be constructed of 304 stainless steel. Baffles and deflectors **shall** be adjustable. Spinner **shall** be driven by a Eaton hydraulic motor. Eaton hydraulic motor **shall** be provided with an integral speed sensor whose output is compatible with the Parker IQAN control system. **The bidder, is solely responsible for sensor compatibility.**
- 2.5 Units **shall** be equipped with stainless steel sectional hinged top screens and a hinged stainless steel inverted "V" over the conveyor. Hoppers **shall** have a bolt-on twelve inch (12") full perimeter extension constructed of ten gauge (10 ga.) 304 stainless steel installed.
- 2.6 Units **shall** be equipped with a gravity chain oiler and centralized manual remote lubrication system providing lubrication to all grease points from a single source. Manual grease pump **shall** be accessible from ground level when unit is mounted on truck.
- 2.7 Each spreader **shall** be supplied with necessary hardware for mounting in dump body. All hardware **shall** be stainless steel..

2.8 Conveyor: Conveyor sides and floor **shall** be constructed of seven gauge (7 ga.) 304 stainless steel. Conveyor **shall** be driven by an Eaton hydraulic motor through a gearbox utilizing a 50:1 worm drive. Eaton hydraulic motor **shall** be provided with an integral speed sensor whose output is compatible with the Parker IQAN control system. **The bidder, is solely responsible for sensor compatibility.** All rolling conveyor components **shall** be supported by sealed ball bearing units.

3.0 GENERAL

- 3.1 Unless replaced by optional equipment specified herein, all items **shall** retain standard features and equipment as shown in published literature. Winning vendor **shall** include a complete parts book with spreaders at time of delivery.
- 3.2 Units provided under this specification **shall** fully comply with any and all applicable OSHA and ANSI standards as well as all applicable Federal, State, and Local laws, regulations, ordinances, statutes, resolutions, and codes at time of delivery.
- 3.3 Manufacturer's printed literature, which **shall** include complete specifications, warranty, descriptive text, and photographs, **shall** be submitted with the bid and becomes an integral part of the bid. If the literature submitted does not indicate compliance with the specifications and your firm can meet these specifications by modifications, you must state this on the exception page, and the necessary modifications be listed and submitted as an integral part of the bid.
- 3.4 Spreader units described herein are intended to be mounted in a dump truck body and will be powered by the truck's hydraulic system. Bid prices **shall** be FOB the LFUCG Fleet Services, 669 Byrd Thurman Drive, Lexington, KY 40510. Upon delivery units **shall** be fully assembled and ready to operate upon connection to an appropriate power source. LFUCG will install the spreaders and provide the plumbing from the truck to the spreader.
- 3.5 Each unit furnished as required **shall** be physically inspected by Urban County Government personnel before unit is accepted. Appropriate measures may be taken to insure compliance with specifications. Any item found to be non-compliant with these specifications, for which no exception was taken in the bid, can be used as grounds for refusal of delivery and payment.
- 3.6 Each unit **shall** be new and unused, current model production.

4.0 EXCEPTIONS

4.1 All exceptions taken **shall** be listed on exception page only.

5.0 BID PRICING

**5.1 Price for stainless steel “V-Box” spreader as specified
within the specifications produced herein:**

Price: \$ 13,997.00 **Ea.**

Model: Flink LM5H9S 410 GASM

EXPECTATION PAGE

Exception
Paragraph

Exception Taken

[illegible]



SPECIFICATION FOR MODEL LMC5H9S410GA HOPPER TYPE MATERIAL SPREADER

GENERAL: It is the purpose of this specification to describe a 5.8 struck cubic yard hopper type material spreader (complete with rear spinner spreading device) suitable for skid mounting in a dump body _____" wide x _____" long (inside dimensions). This spreader shall be complete with spreading device, drive components as specified, controls, etc. and all necessary parts for mounting as specified. It shall be of sturdy construction and shall be complete in every detail, ready for mounting and operation. This spreader shall comply in design and construction with the requirements hereinafter stated and shall include all parts or attachments required to form a complete working unit, whether or not such parts or attachments are specifically mentioned. Failure to comply with these specifications shall disqualify your bid.

DIMENSIONS AND CAPACITY: Length of body at top (inside Dim.) **9 feet minimum**
Approximate width of body (Inside) **84 inches**, Approx. overall Ht. **51 inches**, Approx. Capacity **5.8 cubic yard** (Water Level)

HOPPER BODY: The body shall be minimum **#10 gauge 304 stainless steel sheets**, all electric arc-welded construction. Sides of the hopper shall not have less than 45 degree slope. Body side support members shall have flanged edges for additional strength. There shall be a minimum of three supports on each side of a 9' hopper. These side supports shall be a minimum of **#10 gauge 304 stainless steel sheets** and shall extend the full height of the body taper. The upright section of the side sheet shall be further supported by a **#10 gauge 304 stainless steel** gusset inside the hopper opposite each side support and extending from the top edge down at least 8" below the bend in each side sheet. The side sheets and end sheets shall have a self-formed channel formed at the top. The channel shall be formed inside the hopper and shall be at least 1-1/2" wide x 1-1/2" deep. The end sheet shall be welded to the side sheets, tack-welded on the outside and continuous welded on the inside. The side and end sheets shall be made from **#10 gauge 304 stainless steel**. All fasteners are to be stainless steel.

CONVEYOR: Trough sides shall be not less than **#7 gauge 304 stainless steel sheet** and floor plate shall be not less than **#7 gauge 304 stainless steel sheets**. The conveyor shall be not less than 24" wide and not less than 9-1/2" high. Side sheets shall have a bottom flange 1-1/4" min. wide and a body flange of 1" wide. Conveyor sides shall be supported by a 3" wide x 1/2" legs, formed **3/16" gauge 304 stainless steel** channel welded to bottom flange. Floor plate shall be laterally braced in at least three places by **3/8" x 2" 304 stainless steel flat stock** ribs welded to the under-side. Replaceable chain guard covers shall be provided over the drag chain, and extend below the hopper side sheets to keep material from flowing over the conveyor side chains. The covers shall be **#10 gauge 304 stainless steel sheets** extending the entire length of the hopper. The conveyor drag chain shall consist of two heavy-duty strands of 2-1/4" pitch high strength steel pintle chain with a minimum tensile strength of 42,000 lbs. per chain. Crossbars shall be 3/8" x 1-1/2" half oval steel arc-welded to every other drag chain link. Driving sprockets shall be 6-tooth, flame cut from 5/8" steel plate and welded to a 3" O.D. x 2-11/16" I.D. spacer tube to minimize misalignment of the teeth. One end shall have heavy duty 2-1/2" O.D. x 1-1/2" I.D. drive tube and the other a 1-1/4" idler shaft. Proper chain tension shall be maintained by means of two spring-loaded, heavy-duty, idler bearing adjustments. A minimum of 3" of adjustment shall be provided. The front idler shall be a roller. **Sprockets are not acceptable.** The conveyor shall be equipped with a belting type chain wiper on the rear at the bottom of the

rollover plate. This wiper shall prevent material from being carried to the front of the spreader on the top of the lower chain flights. The drag chain drive shaft and idler roller shall be mounted on re-lubricate able ball bearings. All fasteners are to be stainless steel.

CONVEYOR DRIVE: The conveyor shall be driven through a 50 to 1 worm gear speed reducer directly connected to a Eaton Char-Lynn hydraulic motor, motor to be compatible with Parker IQAN control system. The worm shall be ground; hardened steel and the worm gear shall be aluminum/bronze alloy with 90,000 lbs tensile strength. The speed reducer shaft shall be stress proof steel carried by Timken tapered roller bearings. The hydraulic motor coupled to shaft shall drive the input shaft.

LIFT EYES: There shall be four (4) lift eyes, one located at each upper corner of the hopper to facilitate the removal of the hopper from the truck. The loops shall be made of at least **#7 gauge x 3" 304 stainless steel bars**. The loops shall not extend above the top of the hopper.

MATERIAL FEEDGATE: The feed-gate shall be at least 19" wide x 10" high. The feed-gate shall be fabricated of not less than **#7 gauge 304 stainless steel** plate properly braced and flanged. The lower edge of the gate shall have a flexible edge extension for better sealing against the drag chain. The gate shall be vertically positioned by means of screw type control with a crank extending to the outside of the hopper. This device shall be self-locking and shall maintain a gate setting once it has been set.

SINGLE SPINNER ASSEMBLY: Shall consist of a spreading disk mounted directly on the shaft of a hydraulic motor, a material chute, and three material deflectors. The spreading disk shall be made of 5/8" polyurethane 20" in diameter, with six equally spaced vanes molded into the disk & a fabricated steel hub shall be bolted to the disk for easy replacement. The spreading disk shall be attached to a 3/8" Eaton Char-Lynn hydraulic motor, motor to be compatible with Parker IQAN control system. The material chute shall be constructed of **#12 gauge 304 stainless steel** and shall have not less than 130 square inches of opening. It shall be constructed in such a manner as to make it possible to cut it off in length (in increments of 3") so as to accommodate various spreader mounting heights. There shall be two **304 stainless steel** material guides built into the material chute, one on each side, to direct the material to a specific area on the spreading disk in order to control the direction of the spread. These guides shall be spring loaded and easily adjustable from the outside without the use of tools. The three **#12 gauge 304 stainless steel** material deflectors shall be interchangeable and shall be located one on each side and one at the rear of the spinner. They shall overlap at the corners and shall be readily adjustable by means of chains and hooks on each section. The entire spinner and **304 stainless steel** chute assembly shall be quick-detachable by removing two steel pins, disconnecting two snap-on hose couplers and sliding the assembly out through the rear of the conveyor. All fasteners are to be stainless steel.

PERFORMANCE OF SPREADER: By a simple adjustment of the material guides in the material chute, it shall be possible to control the direction of the spread, thus making it possible to spread mostly to the right or left of the center of the truck.

STAINLESS STEEL SCREENS: Shall be of such design as to allow for mounting flat on top of hopper or slanted from a central beam to each side. The central beam shall run parallel to conveyor and bolt to the center of the top edge of the front and rear sheets of the hopper. The beam shall be not less than **2" O.D. x 6" O.D. 304 stainless steel formed** rectangular tube with not less than #10 gauge wall thickness. When in the slanted position, the top of the screens at the center of the hopper shall be approximately 9" above the top of the hopper. The screen panels shall be not more than 41" x 57" and shall be hinged to the center beam in at least two places on each side panel. The screen frame shall be at least **2" x 2" x 1/4" 304 stainless steel angle** and the screen shall be **3/8" 304 stainless steel diameter rod** with 2 1/2" square openings.

304 STAINLESS STEEL HINGED INVERTED VEE OVER CONVEYOR: Shall be formed of minimum **#12 gauge 304 stainless steel** sheet and held in place by a minimum of three bridge straps **3/8" x 2" 304 stainless steel flat**. Provision shall be made so that the entire assembly hinges at one side so that it may be folded up to clean the conveyor.

304 STAINLESS STEEL HOPPER HEIGHT EXTENSION GROUP: Bolt-on extensions shall be 12" in height. They shall be made of same steel sheet as hopper shell with a self-formed channel at least 1 1/2" wide at the top edge for reinforcement.

304 STAINLESS STEEL GRAVITY TYPE CHAIN OILIER: Shall consist of a **stainless steel** tank mounted on rear hopper sheet with a capacity of at least 2 gallons, plastic tubes to each drag chain with an adjusting cock in each tube to regulate the rate of flow.

DUMP BODY MOUNT: Shall be supplied with four (4) **#7 gauge 304 stainless steel** hold down loops and with four (4) ratchet strap assemblies to insure that hopper body will remain stationary when mounted in truck dump body.

TAILGATE LATCH: Shall be supplied a tailgate locking angle of **303 stainless steel** 4"-5.4# structural channel with **303 stainless steel** 1-1/8" tailgate locking pins, to lock hopper in dump body securely.

GREASE TUBES TO THE REAR: There shall be a pair of grease tubes for the idler bearings in front extending to rear of hopper conveyor. The 3/16" x 156" grease whip hose shall connect to idler bearing housing by 90° street elbow. The hose shall extend length of hopper attaching with **four (4) 1-1/4" x 1-1/4" x 3/16" stainless steel angle**. The hose will end at a **#10 gauge 304 stainless steel** bracket attached by 1/4" bulkhead connector and locking to bracket with 1/4" lock nut and 1/4" -28-45 degree grease zerk.

Snow and Ice Control
Since 1934



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WARRANTY

The Flink Company warrants that it will replace without charge within one year of date of sale, any part proven to the satisfaction of Flink Company to have been defective at the time it was sold or became defective through normal use. This warranty applies only to parts which have not been altered, changed, repaired or abused in any manner.

Component parts used in this equipment but furnished by other manufacturers are warranted only to the extent of the warranty supplied by such manufacturers.

The Flink Company is not responsible to any purchaser of our products for any warranty of guarantee made by dealers selling our products beyond that stated above.

FLINK COMPANY
Streator, Illinois