

**Agency: Commerce, Community and Economic Development****Grants to Municipalities (AS 37.05.315)****Grant Recipient: Delta Junction****Federal Tax ID: 91-0047101****Project Title:****Project Type: Equipment and Materials**

## Delta Junction - Mid-Sized Plow Truck with Sander

**State Funding Requested: \$175,000****House District: 6 / C**

One-Time Need

**Brief Project Description:**

A mid-sized plow truck with sander to maintain approximately 30 miles of roads.

**Funding Plan:**

Total Project Cost:	\$200,000
Funding Already Secured:	(\$25,000)
FY2014 State Funding Request:	<u>(\$175,000)</u>
Project Deficit:	\$0

*Funding Details:**City matching funds of \$25,000.***Detailed Project Description and Justification:**

With a small, yet efficient public works department, responsible for maintaining approximately 30 miles of roads; the City is in need of a snow plow truck. Drifting snow can block a Delta area road in a matter of hours. Currently we are using our 1975 model year road grader for this purpose. The plow truck with sand spreader would maintain roads in the winter months and serve as a dump truck in the summer season. The City Council is asking for this vehicle to maintain safe road conditions for our community.

**Project Timeline:**

July 2013

**Entity Responsible for the Ongoing Operation and Maintenance of this Project:**

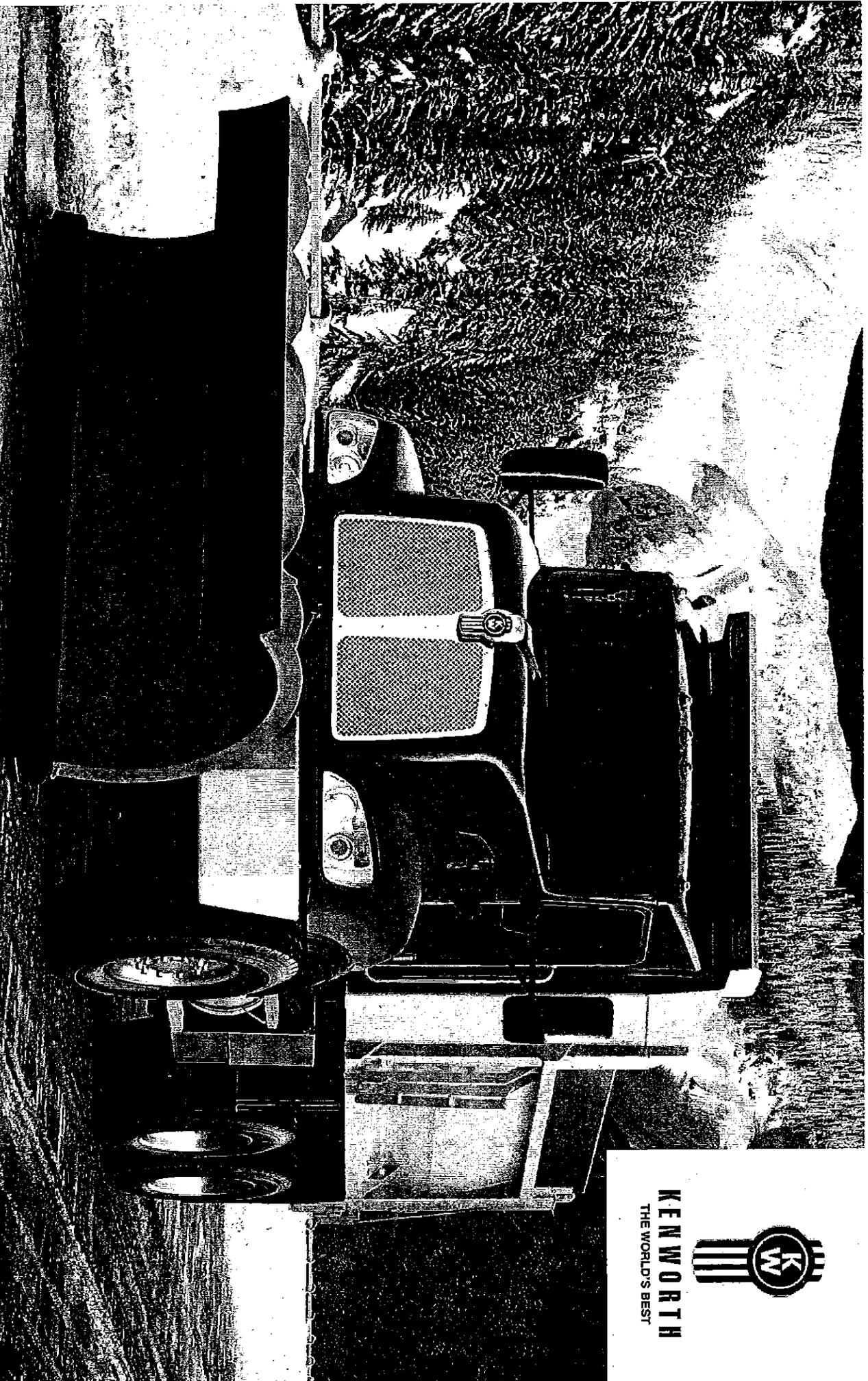
City of Delta Junction

**Grant Recipient Contact Information:**

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 Title: City Administrator  
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Has this project been through a public review process at the local level and is it a community priority?  Yes  No

# 1470



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## History repeats itself... three times. Meet the FSH-I, II and III precision spreaders.

The legendary Henderson FSH sand and salt spreader is now available in three versions. The FSH-I, II and III have subtle differences (see specification chart on back) to better meet varying specification requirements and specific customer needs.

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dependability, precision delivery of materials to the road surface and low maintenance so ingrained in the FSH have all been retained. It's available in a variety of sizes to exactly conform to your specifications.

So now you don't have to settle for less than a Henderson FSH Spreader... regardless of your budget.

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All photos shown with optional equipment.

- Inside seams are continuously welded for extreme duty. Sides and ends are 10 ga. and floor is 7 ga. steel.
- Top edge of hopper is a formed "J" channel for added rigidity and strength.
- Conveyor is 24" wide, all steel pintle-type chain. The FSH-I and II have 1/4" x 1-1/2" crossbars while the FSH-III has 3/8" x 1-1/2" crossbars. Crossbars are spaced on 4-1/2" centers. Sprockets are cast iron and are keyed to the drive and idler shafts to prevent slippage and maintain chain alignment.
- OPTIONAL single or dual augers for reduced maintenance and smoothness of material flow.
- Conveyor chain is protected by a formed 10 ga. shield in the FSH-I and II. A replaceable bolt-in shield is standard on the FSH-III and optional on the FSH-II.
- Two 5/8" stainless steel chain adjusters with 4" of adjustment provide optimum chain tension.
- OPTIONAL conveyor gearbox has thru-shaft for electronic control system speed sensor hook-up.
- The hydraulic motor is mounted directly to the gearcase to eliminate sprockets, chains and couplers for reduced maintenance.
- The telescopic chute assembly is 10 ga. steel and is totally enclosed with two internal adjustable baffles. Three external adjustable deflectors and one front fixed deflector with overlapping corners also contribute to precise control of material spread pattern. A quick latching bypass chute diverts material behind the spinner chute for fast unloading.
- The 20" spinner disk is 10 ga. steel with stainless steel fins. Polyurethane optional.
- All surfaces are high-pressure cleaned and degreased with a phosphate solution before being primed and finish painted with Highway Orange paint.

# FEATURES & SPECIFICATIONS

LENGTH	CUBIC YARD CAPACITY (Struck / Rounded)			WEIGHTS (Approx.)			RECOMMENDED CAB TO AXLE (Inches)
	Side Height			Side Height			
	48" or 50"	54" or 56"	60" or 62"	50"	56"	62"	
8'	4.5/5.6	5.5/5.6	6.5/7.6	1760	1845	1930	60
9'	5.1/6.3	6.2/7.3	7.4/8.5	1905	1995	2085	72
10'	5.6/6.9	6.9/8.2	8.3/9.6	2070	2166	2262	84
11'	6.2/7.6	7.6/9.0	9.0/10.4	2225	2327	2429	96
12'	6.8/8.3	8.4/9.9	9.9/11.4	2380	2488	2596	108
13'	7.3/9.0	9.0/10.7	10.7/12.4	2535	2649	2763	96 C.T.
14'	7.9/9.8	9.7/11.4	11.6/13.3	2690	2810	2930	108 C.T.
15'	8.4/10.3	10.3/12.2	12.2/14.1	2845	2971	3097	120 C.T.
16'	8.9/10.9	11.0/13.0	13.0/15.0	3001	3132	3264	132 C.T.

FEATURE	FSH-I	FSH-II	FSH-III
Lengths	8' - 16'	8' - 16'	8' - 16'
Outside Width	84"	84"	84"
Overall Height	48", 54", 60" or 66"	50", 56", 62" or 68"	50", 56", 62" or 68"
Conveyor Style	<ul style="list-style-type: none"> <li>• 6-tooth sprockets</li> <li>• 1-1/2" dia. drive shaft with roller bearings</li> <li>• Pintle type conveyor chain with 1/4" x 1-1/2" crossbars on 4-1/2" centers</li> </ul>	<ul style="list-style-type: none"> <li>• 8-tooth sprockets</li> <li>• 1-1/2" dia. drive shaft with roller bearings</li> <li>• Pintle type conveyor chain with 1/4" x 1-1/2" crossbars on 4-1/2" centers</li> </ul>	<ul style="list-style-type: none"> <li>• 8-tooth sprockets</li> <li>• 2" dia. drive shaft with roller bearings</li> <li>• Pintle type conveyor chain with 3/8" x 1-1/2" crossbars on 4-1/2" centers</li> </ul>
Idler Type	<ul style="list-style-type: none"> <li>• 1-1/4" dia. shaft with roller bearings</li> <li>• 4" idler adjustment spring loaded optional</li> </ul>	<ul style="list-style-type: none"> <li>• 1-1/2" dia. shaft with roller bearings</li> <li>• 4" spring loaded idler adjustment</li> </ul>	<ul style="list-style-type: none"> <li>• 2" dia. shaft with roller bearings</li> <li>• 4" spring loaded idler adjustment</li> </ul>
Conveyor Gearbox Drive	50:1 worm gear standard 25:1 optional	50:1 worm gear standard 25:1 optional	6:1 spur gearbox 50:1 or 25:1 worm gearbox optional
Chain Shields	standard: formed	standard: formed bolt-in optional	standard: bolt-in replaceable

## SPECIFICATIONS

### BODY

Sides, ends and side supports are of 10 ga. steel and are continuous-seam welded from the inside. Side slope is 45° with front slope at 18° and rear slope at 9°. Floor is replaceable 7 ga. steel. Longsills are 7 ga. steel continuous-seam welded to the sides on mild steel units. Top edge of hopper is formed "J" channel, 1-5/8" x 3/4". Feedgate is 10 ga. 10" x 18", screwjack adjustable from curb side. Download pressure is reduced by an adjustable inverted vee (optional) to reduce material compaction.

### CONVEYOR

Rear discharge pintle chain conveyor is 24" wide. Chain tension adjusting rod is 5/8" stainless steel. Idler adjustment is 4".

### SPINNER CHUTE ASSEMBLY

Completely enclosed telescopic design is of 10 ga. steel. Top-mounted hydraulic spinner motor is enclosed in the chute to maximize material flow to the spinner disk, improving spread pattern. It is mounted directly to the spinner for elimination of shaft and bearings. Two (2)

Internal baffles direct material flow onto the spinner disk for directional spread control. Three (3) external adjustable deflectors and one front fixed deflector with overlapping corners contribute to precise control of material spread pattern. The adjustable spinner deflectors are easily replaceable without tools for easy servicing. A quick latching spreader bypass chute diverts material behind the spinner chute for fast unloading. Spinner disk is 20" dia., 10 ga. steel with replaceable hub. Six (6) 10 ga. stainless steel vanes are bolt-on and replaceable.

### PAINT

All metal surfaces are high pressure cleaned with a phosphate solution to remove slag, spatter, oxide and oil residue. The entire body is primed with high quality catalyzed primer and then finished with Highway Orange grade enamel. The 201 & 304 stainless steel units are unpainted.

### CONTROL VALVE - OPTIONAL

Speed of conveyor and spinner motors is controlled by a dual pressure compensated control valve with a relief pre-set at 1,500 PSI. Valve has twelve (12) detent settings for each circuit and an independent on/off valve to allow start/stop without changing application rate.



### SINGLE AUGER CONVEYOR - OPTIONAL

Seven-inch (7") auger conveyor provides a more even flow than a standard chain conveyor with less maintenance. A patented safety interlock feature helps prevent personal injury from the auger.



### DUAL AUGER CONVEYOR - OPTIONAL

Two counter-rotating augers create a smooth spread, breaking up clumps and prevents bridging of material.

Auger shafts utilize a polyurethane bushing at both ends of each auger to eliminate seizing and ensure ease of maintenance.



### SAFETY INTERLOCK

Required with optional single or dual augers. For safety, auger motors must be disabled before operator can open top grate screens.

### TOP GRATE SCREENS - OPTIONAL

Hinged, 3/8" welded rod heavy duty mesh screens keep unwanted larger materials out of the spreader.

### FRONT IDLER & GREASE TUBE EXTENSIONS - OPTIONAL

Grease and adjustable tension easily from the rear of unit.

## OPTIONS

201 or 304 Stainless Steel • Top Grate Screens • Inverted Vee • Extended Front Idler Adjusters • Extended Front Idler Grease Tubes • Hold Down Kit • 18 HP Engine Group • Rubber Side Spill Shields • Roller Chain • Cab Shield • Spacer Bars • Ladders • Bumpers • Centerline Diverter Chute • Catwalks and Frame Mount Kit • Side Tubes and Rear Hoses • Short Hose Kit with Quick Couplers • Automatic Control Systems

Consult your local Henderson Distributor for all available options.

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