



Bid Request for
For
Reversible Snow Plow with Full Compression Spring Trip

Issue Date: Monday July 11, 2016

Due Date and Time: Wednesday July 20, 2016,
1:00 PM Mountain Time

Receipt Location:

City of Cottonwood Heights
City Recorder's Office
1265 E Fort Union Blvd Ste 250
Cottonwood Heights, Utah 84047

Project Description: Cottonwood Heights (the "City") is purchasing eleven Mack trucks for snowplow operations starting the winter of 2016. This bid is for the seven (7) ea.- 11' and three (3) ea.-12' plow blades that will be installed on the truck chassis by the bidder. **The bids will be evaluated based on delivery time, specifications, warranty, and cost.**

**SPECIFICATIONS FOR A REVERSIBLE SNOW PLOW
WITH FULL COMPRESSION SPRING TRIP**

GENERAL:

This specification shall describe a **reversible snow plow with full compression spring trip** or determined equal by the City. This unit shall also consist of twin hydraulic reversing cylinders, steel moldboard, and continuous seam welding. Bidders must submit with their proposal complete specifications on the unit they propose to furnish.

| 1. | MINIMUM MOLDBOARD REQUIREMENTS | COMPLIANCE |
|-----------|--|--|
| 1.01 | Hitch with "Level lift" design allows continuous level lift in any position | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 1.02 | Height of moldboard must be 36" | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 1.03 | Length of moldboard must be 11' and 12' | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 1.04 | Cutting path at 35° for a (11'/12') length must be (108"/118"). | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 1.05 | 10 GA grade 50 rolled moldboard with eight (8) ½" x 3 ½" ribs for extra strength and rigidity. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 1.06 | All welds must be continuous (skip welds not acceptable) | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 1.07 | Bottom angle must be 4" x 4" x 3/4" with an additional 4" x 3" x ½" reinforcements between the cutting edge bolt holes. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 1.08 | Top moldboard angle must be constructed of 3-1/2" x 2-1/2" x 3/8" with holes to allow moisture to escape. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 1.09 | Two horizontal braces for added rigidity | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 1.10 | Attack angle must be adjustable to 5°, 10°, and 20° | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 1.11 | 5/8" x 8" one piece cutting edge with AASHO punching-standard | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | | |
| 2. | TRIP ASSEMBLY | |
| 2.01 | Full Moldboard Trip with (2) two external compression springs | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 2.02 | Trip-Spring anchor plates are encased and continuous welded to the push frame providing greater strength | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 2.03 | Trip spring assemblies shall be constructed with (2) ½"x 2-1/4" thick bars which are welded to the spring end cap assembly and (1) 5/8"x 2-1/2" thick bar, enclosed by (1) compression spring. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 2.04 | Spring wire material to be AISI 51604 rated | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 2.05 | Spring wire material must have free length of 23.25", OD of 5.31", ID of 3.87" and wire diameter of .719 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 2.06 | QTY 14.32 coils with 12.32 coils active | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 2.07 | Spring Rate of 322 pounds/inch | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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| 3. | Circle Frame and Push Tube: | |
| 3.01 | Hitch with "Level lift" design allows continuous level lift in any position | |
| 3.02 | Push frame tube to be 96" in width constructed of 4"x 4"x 3/8" square tube. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 3.03 | Five (5) moldboard to push frame pivot points with 1-1/4" bushing pinning to two (2) 5/8" mounting ears with 1-1/4" diameter pins. (no exceptions) | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 3.04 | Semi-circle constructed of 3-1/2"x 3-1/2"x 1/2" HR angle with 77.26" span at push-tube. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 3.05 | Semi circle is further reinforced from back side of circle to push tube with two (2) 3-1/2"x 3-1/2"x 1-2" HR angle. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 3.06 | Semi-circle pivot and reversing cylinders yokes constructed of two (2) HR 1/2" plates. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 3.07 | There shall be two (2) reversing stops constructed of 1"x 5" plate welded to circle. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 3.08 | Twin (2) 3" x 10" x 1-1/2" nitrated hydraulic reversing cylinders are double acting for heavy duty reversing. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 3.09 | Reversing cylinders must be located above the circle frame for increased protection against road debris and for ease of maintenance. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 3.10 | Plow mounted cushion valve for reversing cylinders is standard. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 4.0 | A-Frame: | |
| 4.01 | A-frame sides constructed of MC4 x 13.8# channel welded to 1"x 5"x 33.5" A-frame end plate. End plate to side channels is further reinforced with a 5/8"x 3-1/2"x 25" plate. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 4.02 | A-frame to circle frame pivot tongue consists of two (2) 4"x 8.25"x .75" plates with a 1-3/4"x 6.75 Zinc plated pin. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 4.03 | Reversing cylinders pin to dual 5/8" thick cylinder mounts on each side of A-frame | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 5.0 | PAINT: | |
| 5.01 | All metal surfaces are to be phosphate washed to remove slag, splatter, oxide and oil residue. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 5.02 | Moldboard is powder-coated highway orange for increase paint durability. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 5.03 | Push frame, a frame and other miscellaneous components are powder-coated black for increase paint durability. | <input type="checkbox"/> Yes <input type="checkbox"/> No |

| Truck Hitch/Optional Equipment: | |
|---|--|
| Quick hitch installed on plow side | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Truck side hitch to be low profile quick hitch with 30.5" center to center width installed on Mack chassis. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Hydraulic cylinder to be installed on truck side hitch with a 3" x 2" x 10" nitrided lift cylinder. | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 12" x 1/2" rubber deflector installed on plow with SS backer | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 36" plastic side markers installed on plow | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Parking jack, screw adjustable to be installed | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Moldboard cut-out (mailbox) to be cutout on right side of moldboard on 11' plows | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Cheek plate mounting kit, to be mounted on truck side hitch bolted to frame | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Cutting edge to be 5/8" x 8" one-piece AASHTO punch | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | |

Submission Details:

Sealed proposals will be received by the Cottonwood Heights, City Recorder’s Office, 1265 E Fort Union Blvd Ste. 250 Cottonwood Heights, UT 84047 until Wednesday July 20, 2016, at 1:00 P.M.

Proposals, modifications, or corrections will not be accepted if they are not timely received by the City Clerk/Recorder's Office, regardless of the cause, whether or not by action or inaction of the City, including but not limited to delayed, lost, undelivered or misdirected mail. Facsimile transmitted proposals will not be accepted.

CONTACTS

Any administrative questions regarding bidding procedures should be directed to:
Paula Melgar, City Recorder.

SPECIAL INSTRUCTIONS TO BIDDERS

I. Submission Requirements and Instructions (All bidder requirements in this section are **mandatory**).

- The City reserves the right to waive any non-material variation, or technicality in any statement received, if the City believes it would serve the best interest of the City. The City may reject any and all Request for Proposals.
- Request for Proposal must be in a sealed package and submitted via mail or hand-deliver, to the City Recorder’s office. Each submission must be marked on the outside with the Company’s name and the description of the proposal; **“Reversible Snow Plow With Full Compression Spring Trip.”**
- Bidders shall submit two (2) hard copies of the Bid, Specifications, and Specification Checklist (see attached), and Price Sheet to the City at the address identified above.
- Any bid received after the schedule closing time for receipt will **NOT** be opened and **NOT** returned to sender.
- Bids and required attachments shall be submitted as specified. All costs incurred in the preparation of a proposal will be the responsibility of the bidder and will not be reimbursed by the City.

- Successful vendor shall possess and make proof available of Liability Insurance Coverage for \$1,000,000 or higher, Workers Compensation Coverage (State limits), Commercial and Auto Liability Coverage \$100,000/\$100,000/\$500,000 or higher and indemnification of liability for the City of Cottonwood Heights and its agents.

Requests for Supplemental Information

The City reserves the right to require the submittal of additional information that supplements or explains proposal materials.

AWARD OF CONTRACT

The City reserves the right to reject any and all proposals, to contract work with whomever and in whatever manner the City decides, to abandon the work entirely and to waive any informality or non-substantive irregularity as the interest of the City may require and to be the sole judge of selection process. The City also reserves the right to negotiate separately in any manner to serve the best interest of the City. The City retains the right at its sole discretion to select a successful vendor(s).