






Date of Action: 9/11/17	
Approved <input checked="" type="checkbox"/>	Denied <input type="checkbox"/>
By: 	


CITY COUNCIL ACTION MEMORANDUM

AM No. 17-34: Contract Award To Craig Taylor Equipment In the Amount Of \$60,872 For A 2016 Bobcat S650 With Attachments Per State Of Alaska (SOA) Contract #CA2030-17.

Originator: April Dwyer, Purchasing
 Date: 8/28/2017

Agenda of: 9/11/2017

Route to:	Department Head	Signature	Date
	Chief of Police		
X	Public Works Director		8/28/17
X	Recreation Services Director		8/29/17
X	Finance Director		8-28-17
X	Deputy Administrator		8/29/17
X	City Clerk		8/29/17

Reviewed by Mayor Bert L. Cottle:  9/11/2017

Fiscal Impact: yes or no

Funds Available: yes or no

Account name/number/amount:

Construction Services - Loader 340.4539.453.45.32 \$60,872

Attachments: Specifications (14 pages)
 Price Sheet (1 page)

Summary Statement: The Menard Center is seeking to purchase one (1) 2016 Bobcat S650 Loader and attachments as budgeted for fiscal year 2018. This purchase will use the State of Alaska (SOA) contract #CA2030-17. Procurement using the SOA contract would be in lieu of soliciting a bid by the City which is allowed for under Wasilla Municipal Code 5.08.100.

Staff Recommendation: Adopt AM No. 17-34 by awarding a contract to Craig Taylor Equipment.

CRAIG TAYLOR EQUIPMENT
 733 E. WHITNEY
 ANCHORAGE, AK 99501
 907-276-5050

<u>1 or 0</u>	<u>SPEC.</u>	<u>DESCRIPTION</u>	<u>PO TOTAL</u>	
1	321	Compact Skid Steer Loader 2016 Bobcat S650	\$	39,590.00
0	321	Compact Track Loader (standard width track) 2016 Bobcat T650	\$	-
0	2.4	Compact Track Loader (wide track option)	\$	-
		<u>Standard Attachments:</u>		
1	6.2	GP Bucket Attachment Bobcat 6726344	\$	1,324.00
1	6.3	Snow Bucket Attachment Bobcat 7184110	\$	1,164.00
0	6.4	6-Way Dozer Blade Attachment Bobcat 6905844	\$	-
1	6.5	Angle Broom w/ Water Kit Attachment Bobcat 6905806	\$	6,905.00
0	6.6	Auger Attachment Bobcat 30H	\$	-
1	6.7	Snow Blower Attachment Bobcat SB240	\$	5,295.00
0	6.8	Brush Cutter Attachment Cross-Tech Bruchwolf 7800F	\$	-
0	6.9	Brush Shredder Attachment Fecon BH85SS	\$	-
0	6.1	Mower Attachment Bobcat 7144850	\$	-
1	6.11	Pallet Forks Attachment Bobcat 48"	\$	594.00
		<u>Wide Track Machine Attachments:</u>		
0	6.12	Snow Bucket Attachment Bobcat 88"	\$	-
0	6.13	6-Way Dozer Blade Attachment Bobcat 7105781	\$	-
0	6.14	Snow Blower Attachment Bobcat SB240	\$	-
0	6.15	Mower Attachment Bobcat 7144850	\$	-
		<u>Miscellaneous:</u>		
0	1	Training	\$	-
0	3	Paper Publications	\$	-
0		Electronic Publications	\$	-
0	5.1	Joystick Control Option	\$	-
0	1	Equipment Trailer	\$	-
0		2016 Towmaster T-12D		
0		Cross Tech Brushwolf 72M Includes Replacement Blade kit	\$	-
			\$	54,872.00

EST SHIPPING = \$16,000⁰⁰

LOT 1
SPECIFICATION #321
Skid Steer Loader

GENERAL SPECIFICATION:

It is the purpose of this specification to describe a new, and of the manufacturer's latest current model and design, diesel powered, skid-steer loader with attachments including:

Quick Attach System
General Purpose Dirt Bucket
Snow Bucket
6-Way Dozer Blade
Angle Broom with Water Kit
Auger System
Snow Blower
Rotary Brush Cutter
Brush Shredder
Mower Attachment
Pallet Forks

To include all standard equipment and accessories as advertised in manufacturer's current model year specification sheet of model offered, unless otherwise specified herein.

APPLICATION:

General purpose use. Varying terrain and weather conditions to minus 40 degrees Fahrenheit.

DOCUMENTATION REQUIRED:

One (1) copy of manufacturer's product brochure (**host unit and all attachments**) to be provided with bid proposal.

In addition, specifications marked with an asterisk (*) require supporting documentation, which indicates specifically what the bidder intends to supply in regard to said items and/or how specifications will be met. In order to help prevent technical errors, following each asterisked is space that may be used to address all of the asterisked items. It is required that a letter of clarification or the space behind the asterisked items be used to supply the required information. You may use the area behind the asterisked item to refer to a product brochure, manufacturer's technical data sheet, or letter of clarification, which indicates specifically what you, the bidder, intend to supply in regard to said items and/or how specifications are met. Also refer to paragraphs 10 and 11 in Section I – Instructions to Bidders.

TYPICAL UNITS:

BOBCAT Model S650 or CASE Model 450 series III or CATERPILLAR Model 262C or JOHN-DEERE Model 326D. Provided all of the following minimum specifications are met.

1.0 POWER TRAIN:

1.1 Engine:

1.1.1 Diesel Engine must conform to all Federal Emission Standards as set for 2015 model year diesel engines.

1.1.1.1 Bobcat 4-Cylinder liquid cooled diesel engine, turbocharged, 74 HP

1.1.2 Air Intake System:

1.1.2.1 To include dual element system, minimum.

1.1.2.2 Air filter restriction indicator, clearly visible from operator's station.

1.1.3 Coolant: To include permanent type antifreeze protection to minus 40 degrees Fahrenheit.

1.1.4 Block Heater: To include 110-volt immersion heater.

1.1.5 Fuel Filter to be in line strainer type.

SECTION III
SPECIFICATIONS

- 1.1.6 Engine must at a minimum meet or exceed all EPA Emissions standards
- 1.2 Fuel:
 - 1.2.1 Diesel Fuel
 - 1.2.2 Tank Capacity minimum 19 gallon
- 2.0 DRIVE TRAIN:**
 - 2.1 Drive system to consist of hydrostatic primary with a gear and/or chain final.
 - 2.2 Tire Size 12-16.5 12 ply
 - 2.3 Travel Speed: 7.1 MPH Single Speed / 12.0 MPS 2-speed
- 3.0 HYDRAULICS:**
 - 3.1 Hydraulics, minimum flow of 30 GPM, to properly operate all attachments provided by the units manufacture and future attachments.
 - 3.2 All controls to be at operator's station. To be dual-hand operated. Foot operated or "T-Bar" type are not acceptable. A rocker switch lockout control option to lock out foot controls and move this function to hand controls would be acceptable.
 - 3.3 Bucket hydraulic controls to include self-leveling (up minimum) and float functions.
 - 3.4 Filtration: To include replaceable, minimum 10-micron, non-spill able canister type filters or an inverted filter (canister is fixed and the filter is attached to the cap and threaded to canister).
 - 3.5 Hydraulic cylinders are to be double acting.
- 4.0 PERFORMANCE:**
 - 4.1 Tip Load: SAE rated for minimum 5,380 pounds.
 - 4.2 Operating Capacity at 50% of tip load: SAE rated for minimum 2,690 lbs.
 - 4.3 Additional or optional counterweights are not to be used to meet performance requirements.
- 5.0 ELECTRICAL:**
 - 5.1 Battery(s): Minimum total of 850 CCA at zero degrees Fahrenheit.
 - 5.2 Alternator: Minimum 70 amp.
 - 5.3 Work Lights:
 - 5.3.1 To include two (2) each front and one (1) each rear work lights, minimum.
 - 5.3.2 Lights are to be shock mounted.
 - 5.3.3 To be individual single front and single rear light switch operated from operator's station.
 - 5.3.4 Engine compartment light.
 - 5.3.5 Dome Light: Operator's compartment, separately switched.
 - 5.4 Strobe Light:
 - 5.4.1 Roof Mounted Strobe Light: To be LED strobe with amber lens.
 - 5.4.2 To be separately switched with "ON/OFF" from operator's station.
 - 5.5 Horn: Electric, to be manufactures standard.
 - 5.6 Back-Up Alarm: To be manufacturer's standard.
- 6.0 CAB:**
 - 6.1 OEM EROPS (Enclosed Roll over Protection System).
 - 6.2 Front door to be easy attach/detach without tools. A slide-up design is acceptable.

SECTION III
SPECIFICATIONS

- 6.3 Windshield Wipers: Front minimum.
- 6.4 Heater, minimum 13,000 BTU, with defrosters.
- 6.5 Air conditioning.
- 6.6 Operator Seat:
 - 6.6.1 Scissors style suspension and adjustable lumbar support. (air suspension would be acceptable)
 - 6.6.2 Seat belt, three (3) inch wide, with audible alarm.
 - 6.6.3 Operator safety bar.
- 6.7 Rear view mirror, interior, to be wide angle.

LOT 1
SPECIFICATION #321
Tracked Skid Steer Loader

GENERAL SPECIFICATION:

It is the purpose of this specification to describe a new, and of the manufacturer's latest current model and design, diesel powered, skid-steer loader with attachments including:

Quick Attach System
General Purpose Dirt Bucket
Snow Bucket
6-Way Dozer Blade
Angle Broom with Water Kit
Auger System
Snow Blower
Rotary Brush Cutter
Brush Shredder
Mower Attachment
Pallet Forks

To include all standard equipment and accessories as advertised in manufacturer's current model year specification sheet of model offered, unless otherwise specified herein.

APPLICATION:

General purpose use. Varying terrain and weather conditions to minus 40 degrees Fahrenheit.

DOCUMENTATION REQUIRED:

One (1) copy of manufacturer's product brochure (**host unit and all attachments**) to be provided with bid proposal. In addition, specifications marked with an asterisk (*) require supporting documentation, which indicates specifically what the bidder intends to supply in regard to said items and/or how specifications will be met. In order to help prevent technical errors, following each asterisked item is space that may be used to address all of the asterisked items. It is required that a letter of clarification or the space behind the asterisked items be used to supply the required information. You may use the area behind the asterisked item to refer to a product brochure, manufacturer's technical data sheet, or letter of clarification, which indicates specifically what you, the bidder, intend to supply in regard to said items and/or how specifications are met. Also refer to paragraphs 10 and 11 in Section I – Instructions to Bidders.

TYPICAL Units:

BOBCAT Model T650 or CASE Model 450CT or CATERPILLAR Model 289C or JOHN-DEERE Model 329D.
Provided all of the following minimum specifications are met.

1.0 POWER TRAIN:

- 1.1 Engine:
 - 1.1.1 Diesel Engine must conform to all Federal Emission Standards as set for 2015 model year diesel engines.
 - 1.1.1.1 Bobcat 4-Cylinder liquid cooled diesel engine, turbocharged, 74 HP
 - 1.1.2 Air Intake System:
 - 1.1.2.1 To include dual element system, minimum.
 - 1.1.2.2 Air filter restriction indicator, clearly visible from operator's station.
 - 1.1.3 Coolant: To include permanent type antifreeze protection to minus 40 degrees Fahrenheit.
 - 1.1.4 Block Heater: To include 110-volt immersion heater.
 - 1.1.5 Fuel Filter to be in line strainer type.

SECTION III
SPECIFICATIONS

1.1.6 Engine must at a minimum meet or exceed all EPA Emissions standards

1.2 Fuel:

1.2.1 Diesel Fuel

1.2.2 Tank Capacity minimum 19 gallon

2.0 DRIVE TRAIN:

2.1 Rubber OEM tracked drive system. Aftermarket tracks added to skid steer design tires are not acceptable.

2.2 Drive system to consist of hydrostatic primary with a gear and/or chain final.

2.3 Standard Track width minimum 12.6 inches

2.4 **WIDE TRACK WIDTH (Optional item Pricing is required. Refer to Section IV – Bid Price Schedule.)**

Track Width 15.5 to 17.7 inches

2.5 Ground Pressure to be a maximum of 5.8 PSI w/ 12.6 inch tracks, 4.2 with 17.7 inch tracks.

2.6 Length of Track on Ground: 58.5" (inches) minimum.

2.7 Travel Speed: Single speed selection range (6.6 mph)

3.0 HYDRAULICS:

3.1 Hydraulics, minimum flow of 30.5 GPM, to properly operate all attachments provided by the unit's manufacturer and future attachments.

3.2 All controls to be at operator's station. To be dual-hand operated. Foot operated or "T-Bar" types are not acceptable. A rocker switch lock out control option to lock out foot controls and move this function to hand controls would be acceptable.

3.3 Bucket hydraulic controls to include self-leveling (up minimum) and float functions.

3.4 Filtration: To include replaceable, minimum 10-micron, non-spill able canister type filters or an inverted filter (canister is fixed and the filter is attached to the cap and threaded to canister).

3.5 Hydraulic cylinders are to be double acting.

4.0 PERFORMANCE:

4.1 Tip Load: SAE rated for minimum 7,343 lbs.

4.2 Operating Capacity at 50% of tip load: SAE rated for minimum 3,672 pounds.

4.3 Additional or optional counterweights are not to be used to meet performance requirements.

5.0 ELECTRICAL:

5.1 Battery(s): Minimum total of 850 CCA at zero degrees Fahrenheit.

5.2 Alternator: Minimum 70 amp.

5.3 Work Lights:

5.3.1 To include two (2) each front and one (1) each rear work lights, minimum.

5.3.2 Lights are to be shock mounted.

5.3.3 To be individual single front and single rear light switch operated from operator's station.

5.3.4 Engine compartment light.

5.3.5 Dome Light: Operator's compartment, separately switched.

5.4 Strobe Light:

5.4.1 Roof Mounted Strobe Light: To be LED strobe with amber lens.

5.4.2 To be separately switched with "ON/OFF" from operator's station.

5.5 Horn: Electric, to be manufactures standard.

SECTION III
SPECIFICATIONS

5.6 Back-Up Alarm: To be manufacturer's standard.

6.0 CAB:

6.1 OEM EROPS (Enclosed Roll over Protection System).

6.2 Front door to be easy attach/detach without tools. A slide-up design is acceptable.

6.3 Windshield Wipers: Front minimum.

6.4 Heater, minimum 13,000 BTU, with defrosters.

6.5 Air conditioning.

6.6 Operator Seat:

6.6.1 Scissors style suspension and adjustable lumbar support. (air suspension would be acceptable)

6.6.2 Seat belt, three (3) inch wide, with audible alarm.

6.6.3 Operator safety bar.

6.7 Rear view mirror, interior, to be wide angle.

LOT 1
SPECIFICATIONS
ATTACHMENTS AND MISC.

1.0 TRAINING: (Optional item pricing is required. Refer to Section IV – Bid Price Schedule.)

- 1.1 Bidder to provide a qualified instructor, after delivery and acceptance by the State, for a minimum of eight (8) hours mechanical and operator training at the assigned location.
- 1.2 The State contact will be listed on the Purchase Order.
- 1.3 To include a minimum of four (4) hours of operator training including the following, as a minimum applicable agenda:
 - 1.3.1 Operating procedures per operating manual.
 - 1.3.2 Break-in procedures.
 - 1.3.3 Equipment limitations.
 - 1.3.4 Operator maintenance.
 - 1.3.5 Before operations checks and lubrication.
 - 1.3.6 Safety.
 - 1.3.7 Cold weather operations.
 - 1.3.8 Jump starting.
 - 1.3.9 Welding on equipment.
 - 1.3.10 Towing or transporting equipment.
 - 1.3.11 Instruments and controls.
 - 1.3.12 Gauge interpretation.
 - 1.3.13 Equipment operation, Do's and Don'ts.
 - 1.3.14 Attachment operation, Do's and Don'ts.
- 1.4 To include a minimum of four (4) hours of mechanics (Journeyman level) training including the following theory, trouble shooting, and test procedures for, as a minimum applicable agenda:
 - 1.4.1 Electronics.
 - 1.4.2 Electrical.
 - 1.4.3 Hydraulics.
 - 1.4.4 Air system.
 - 1.4.5 Drive train.
 - 1.4.6 Engine and transmission electronics.

2.0 INSTRUMENTATION:

- 2.1 Any and all gauges that show pressures, temperatures, etc., are to be in U.S.A measurements such as PSI, Fahrenheit, etc.
- 2.2 To include as a minimum, in the operator's compartment:
 - 2.2.1 Fuel level gauge or bar graph.
 - 2.2.2 High engine coolant temperature gauge or indicator light.
 - 2.2.3 Low engine oil pressure gauge or indicator light.
 - 2.2.4 Ammeter or voltmeter, gauge or indicator light.
 - 2.2.5 High hydraulic oil temperature indicator light.

SECTION III
SPECIFICATIONS

2.2.6 Hour meter.

3.0 PUBLICATIONS:

3.1 Paper publications as specified in Section 1 Item 8.0

3.2 Electronic Publications: (optional if available)

3.2.1 Electronic publications if available shall be either on a disc format or the ability to access securely online.

3.2.2 The electronic version shall have all the required information as the paper manuals as specified in Section I Item 8.0.

4.0 MISCELLANEOUS:

4.1 Joystick Control Option if available. (Price separately as an option but will not be used for calculating award.

4.2 Weight Scale Ticket: To be provided with MSO and invoice.

4.3 Winterization: Entire unit shall be winterized to provide satisfactory performance in temperatures to minus 60 degrees Fahrenheit.

4.4 Paint: Manufacturer's standard with appropriate primer.

4.5 Inspection: Inspection for compliance with specifications will be conducted at the FOB point

5.0 ATTACHMENTS:

5.1 For standard Skid Steer Machines:

5.1.1 **Quick Attach System:** To be OEM, hydraulic or mechanical operated.

5.1.1.1 To include the *BOBCAT* "Bob-Tach" system or similar.

5.2 GP Bucket Attachment: (Optional item pricing is required. Refer to Section IV – Bid Price Schedule.)

5.2.1 General Purpose Dirt Bucket Attachment:

5.2.1.1 OEM heavy-duty bucket with bolt-on replaceable cutting edge.

5.2.1.2 80" HD Bucket with bolt on cutting edge.

5.2.1.3 Heaped Capacity: 19.1 Cubic Feet

5.2.2 Mounting:

5.2.2.1 Unit to include same quick attach mounting system to the host unit as the other attachments.

5.3 Snow Bucket Attachment: (Optional item pricing is required. Refer to Section IV – Bid Price Schedule.)

5.3.1 Provide manufacturer's brochure with bid package.

5.3.2 OEM heavy-duty snow bucket with bolt-on replaceable cutting edge.

5.3.3 Width: 80 inch snow & ft. material bucket w/ bolt on cutting edge.

5.3.4 Heaped Capacity: 29.2 Cubic Feet

5.3.5 Mounting:

5.3.5.1 Unit to include same quick attach mounting system to the host unit as the other attachments.

5.4 6-Way Dozer Blade Attachment: (Optional item pricing is required. Refer to Section IV – Bid Price Schedule.)

5.4.1 Provide manufacturer's brochure with bid package.

SECTION III
SPECIFICATIONS

- 5.4.1.1 It is the purpose of the following specification to describe a hydraulically powered 6-way dozer blade for gravel, dirt, and snow.
- 5.4.1.2 Power reversing (angle) utilizing two (2) each hydraulic cylinders.
- 5.4.1.3 Power side tilt (oscillation), utilizing a hydraulic cylinder(s).
- 5.4.2 Unit bid must have been in production a minimum of two (2) years.
- 5.4.3 Blade Width: 80 inch six way dozer blade
- 5.4.4 Blade Height: 24 inches.
- 5.4.5 Angle: 30 degrees left and 30 degrees right.
- 5.4.6 Oscillation: 8 degrees left and 8 degrees right.
- 5.4.7 Operating Weight: 987 pounds
- 5.4.8 Cutting Edge: Replaceable, reversible, bolt-on, ½ (0.5) inch thick x six (6) inches in height.
- 5.4.9 Skid Shoes: Adjustable, bolt-on, replaceable.
- 5.4.10 Mounting:
 - 5.4.10.1 Unit to include same quick attach mounting system to the host unit as the other attachments.
 - 5.4.10.2 Hydraulic quick connections are to be used for easy removal.
 - 5.4.10.3 Hydraulic quick connections are to include protective caps with chains or heavy-duty rubber.
- 5.5 **Angle Broom with Water Kit Attachment: (Optional item pricing is required. Refer to Section IV – Bid Price Schedule.)**
 - 5.5.1 Provide manufacturer's brochure with bid package.
 - 5.5.2 It is the purpose of the following specification to describe a hydraulically powered angle broom for sweeping of gravel, dirt and snow from a hard surface.
 - 5.5.2.1 Hydraulic power for angle and rotation.
 - 5.5.3 Unit bid must have been in production a minimum of four (4) years.
 - 5.5.4 *Bobcat 84" Angle Broom*
 - 5.5.5 Operating Weight: 944 pounds
 - 5.5.6 Brush Width: 84 inches
 - 5.5.7 Brush Diameter: 32 inches
 - 5.5.8 Brush Angle: 25 degrees left and 25 degrees right.
 - 5.5.9 Brush(s) to be stacked wafer type.
 - 5.5.9.1 Brush fill shall be mixed 50/50, alternating sections of polypropylene and steel wire.
 - 5.5.9.2 **Spares: One (1) each, full set of poly and one (1) each full set of wire shall be included (shipped loose, not mounted).**
 - 5.5.10 Core shall include a quick change system.
 - 5.5.11 Brush Hood:
 - 5.5.11.1 To be heavy-duty ¼" thick poly carbonate style 180 degree cover.
 - 5.5.11.2 Dirt deflector to be included.
 - 5.5.12 Oscillation: Fixed.

SECTION III
SPECIFICATIONS

- 5.5.13 Water Sprinkler Kit: To include minimum 28 gallon poly water tank with an operator controlled pump that will provide a fine curtain of water across face of brush to reduce dust. For weight and balance purposes, water tanks may be required to be mounted on the rear sides of the loader.
- 5.5.14 Storage Stands: To help eliminate bristle distortion when unit is not in use.
- 5.5.15 Paint: Powder coating process. Manufacturer's standard color.
- 5.5.16 Mounting:
 - 5.5.16.1 Unit to include same quick attach mounting system to the host unit as the other attachments.
 - 5.5.16.2 Hydraulic quick connections are to be used for easy removal.
 - 5.5.16.3 Hydraulic quick connections are to include protective caps with chains or heavy-duty rubber.
- 5.6 **Auger Attachment: (Optional item pricing is required. Refer to Section IV – Bid Price Schedule.)**
 - 5.6.1 Bobcat Model 30H
 - 5.6.2 To include a planetary gear reduction system providing a minimum of 2,000 pound foot of torque. A hydraulic direct drive system would be acceptable in place of a planetary gear reduction system.
 - 5.6.3 Unit to be capable of speeds up to 70 RPM, which would require a minimum hydraulic flow of 30 GPM.
 - 5.6.4 Hole depth of 48 inches minimum.
 - 5.6.5 Output Shaft: Two (2) inch hexagon.
 - 5.6.6 Augers to be provided:
 - 5.6.6.1 Hole diameter of 12 inches, *McMILLAN* p/n 12HDP with two (2) inch hexagon drive.
 - 5.6.6.2 Hole diameter of 9 inches, *McMILLAN* p/n 09HDP with two (2) inch hexagon drive.
 - 5.6.6.3 Hole diameter of 6 inches, *McMILLAN* p/n 06HDP with two (2) inch hexagon drive.
 - 5.6.7 To include a two (2) foot auger extension with two (2) inch hexagon drives.
 - 5.6.8 Mounting:
 - 5.6.8.1 Unit to include same quick attach mounting system to the host unit as the other attachments.
 - 5.6.8.2 Hydraulic quick connections are to be used for easy removal.
 - 5.6.8.3 Hydraulic quick connections are to include protective caps with chains or heavy-duty rubber.
- 5.7 **Snow Blower Attachment: (Optional item pricing is required. Refer to Section IV – Bid Price Schedule.)**
 - 5.7.1 Provide manufacturer's brochure with bid package.
 - 5.7.2 It is the purpose of this specification to describe a hydraulically operated 2-stage snow blower. Unit must be compatible to operate with the host machine of 30 GP hydraulic flow per spec 3.1
 - 5.7.3 Unit bid must have been in production a minimum of two (2) years.
 - 5.7.4 Cutting Width: 84 inches
 - 5.7.5 Feed Height: 33.8 inches
 - 5.7.6 Auger/Ribbon Diameter: 18.5 inches
 - 5.7.7 Impeller Fan Diameter: 24 inches
 - 5.7.8 Chute Rotation: Hydraulically controlled, 180 degrees (90 degrees left and 90 degrees right), minimum.

SECTION III
SPECIFICATIONS

- 5.7.9 Tip Deflector: Hydraulically controlled by the operator.
- 5.7.10 Chute is to be poly lined.
- 5.7.11 Skid Shoes: To be replaceable, bolt-on (or pin-on).
- 5.7.12 Cutting edge to be replaceable, bolt-on (or pin-on).
- 5.7.13 Operating Weight: 1,105 pounds
- 5.7.14 Mounting:
 - 5.7.14.1 Unit to include same quick attach mounting system to the host unit as the other attachments.
 - 5.7.14.2 Hydraulic quick connections are to be used for easy removal.
 - 5.7.14.3 Hydraulic quick connections are to include protective caps with chains or heavy-duty rubber.
- 5.7.15 Spare Shear Pins: To include 12 complete sets. Hydraulic relief is acceptable in lieu of shear pin design.
- 5.8 **Brush Cutter Attachment: (Optional item pricing is required. Refer to Section IV – Bid Price Schedule.)**
 - 5.8.1 Provide manufacturer's brochure with bid package.
 - 5.8.2 It is the purpose of this specification to describe a hydraulically powered rotary mower attachment for cutting grass and brush on roadsides and other areas that are not accessible to conventional mowing equipment. Unit must be compatible to operate with the host machine of 30 GP hydraulic flow per spec 3.1 the unit offered should have a width equal at a minimum to the widest host unit offered in a skid steer and wide track machine.
 - 5.8.3 Unit bid must have been in production a minimum of two (2) years.
 - 5.8.4 Weight: Unit to have a minimum weight of 1,122 pounds (including quick attach system).
 - 5.8.5 Blade Tip Velocity: Minimum 13,100 ft. /sec.
 - 5.8.6 Cutting Width: Unit bid must be as wide as or wider than overall width of host unit.
 - 5.8.7 Hydraulic Motor: Shall be gear type with cast steel housing and steel gears, specifically excluding an aluminum pump--The Hydraulic motor and coupling system shall be rated at not less than 100 horsepower.
 - 5.8.8 Anti-wrap shield (dish shaped with reinforced center cone) to help prevent material from wrapping around blade arm hub.
 - 5.8.9 Blades:
 - 5.8.9.1 Two (2) each heavy-duty, minimum ½ (0.5) inch thick by four (4) inches wide.
 - 5.8.9.2 Spares: To include six (6) each sets of blades with hardware.
 - 5.8.10 To be equipped with replaceable bolt-on skid shoes.
 - 5.8.11 To include front chain shield to provide protection from flying debris.
 - 5.8.12 To include rear protection from flying debris.
 - 5.8.13 Mounting:
 - 5.8.13.1 Unit to include same quick attach mounting system to the host unit as the other attachments.
 - 5.8.13.2 Hydraulic quick connections are to be used for easy removal.
 - 5.8.13.3 Hydraulic quick connections are to include protective caps with chains or heavy-duty rubber.

- 5.9 **Brush Shredder Attachment: (Optional item pricing is required. Refer to Section IV – Bid Price Schedule.)**
- 5.9.1 Provide manufacturer's brochure with bid package.
 - 5.9.2 To be FECON Bull Hog BH85SS, or a BRADCO MM72 would be an acceptable substitute.
 - 5.9.3 To provide a cut of 72 inches minimum.
 - 5.9.4 When provided, the windshield of the compact tracked loader will be required to Lexan with a minimum thickness of ¼ (0.25) inches. Bobcat's Standard "forestry" package is acceptable.
 - 5.9.4.1 Window wiper system would not be required on this windshield.
 - 5.9.5 Mounting: Unit to include same quick attach mounting system to the host unit as the other attachments.
 - 5.9.6 Pressure gauge mounted on top cover.
 - 5.9.7 Electric over hydraulic adjustable front deflection door.
 - 5.9.8 Unit offered must include all safety guards for lights, couplers, lift cylinders, mufflers, etc.
- 5.10 **Mower Attachment: (Optional item pricing is required. Refer to Section IV – Bid Price Schedule.)**
- 5.10.1 Provide manufacture's brochure with bid package.
 - 5.10.2 71 inches minimum cutting width.
 - 5.10.3 Cutting Height Range: 2 inches to 5.5 inches
 - 5.10.4 Mounting: Unit to include same quick attach mounting system as the host unit as the other attachments.
- 5.11 **Pallet Forks Attachment: (Optional item pricing is required. Refer to Section IV – Bid Price Schedule.)**
- 5.11.1 Tine Length: 48 inches minimum.
 - 5.11.2 Tine Width: Four (4) inches minimum.
 - 5.11.3 Forks to have an adjustable outside width to 44 inches minimum.
 - 5.11.4 To include tine and swing locks.
 - 5.11.5 Carriage Height: 36 inches minimum.
 - 5.11.6 Carriage Width: 46 inches minimum.
 - 5.11.7 Mounting: Unit to include same quick attach mounting system to the host unit as the other attachments.
- 5.12 **Snow Bucket Attachment for Use with Wide Track Machine: (Optional item pricing is required. Refer to Section IV – Bid Price Schedule.)**
- 5.12.1 Provide manufacturer's brochure with bid package.
 - 5.12.2 OEM heavy-duty snow bucket with bolt-on replaceable cutting edge.
 - 5.12.3 Width: 88 inch HD snow bucket w/ bolt on cutting edge.
 - 5.12.4 Heaped Capacity: 32.0 Cubic Feet
 - 5.12.5 Mounting:
 - 5.12.5.1 Unit to include same quick attach mounting system to the host unit as the other attachments.
- 5.13 **6-Way Dozer Blade Attachment for Use with Wide Track Machines: (Optional item pricing is required. Refer to Section IV – Bid Price Schedule.)**
- 5.13.1 Provide manufacturer's brochure with bid package.

SECTION III
SPECIFICATIONS

- 5.13.1.1 It is the purpose of the following specification to describe a hydraulically powered 6-way dozer blade for gravel, dirt, and snow.
- 5.13.1.2 Power reversing (angle) utilizing two (2) each hydraulic cylinders.
- 5.13.1.3 Power side tilt (oscillation), utilizing a hydraulic cylinder(s).
- 5.13.2 Unit bid must have been in production a minimum of two (2) years.
- 5.13.3 Blade Width: 96 inches
- 5.13.4 Blade Height: 27.7 inches
- 5.13.5 Angle: 30 degrees left and 30 degrees right
- 5.14 **Snow Blower Attachment for Use with Wide Track Machines: (Optional item pricing is required. Refer to Section IV – Bid Price Schedule.)**
 - 5.14.1 Provide manufacturer's brochure with bid package.
 - 5.14.2 It is the purpose of this specification to describe a hydraulically operated 2-stage snow blower.
 - 5.14.3 Unit bid must have been in production a minimum of two (2) years.
 - 5.14.4 Cutting Width: 84 inches
 - 5.14.5 Feed Height: 33.8 inches
 - 5.14.6 Auger/Ribbon Diameter: 18.5 inches
 - 5.14.7 Impeller Fan Diameter: 24 inches
 - 5.14.8 Chute Rotation: Hydraulically controlled, 180 degrees (90 degrees left and 90 degrees right), minimum.
 - 5.14.9 Tip Deflector: Hydraulically controlled by the operator.
 - 5.14.10 Chute is to be poly lined.
 - 5.14.11 Skid Shoes: To be replaceable, bolt-on (or pin-on).
 - 5.14.12 Cutting edge to be replaceable, bolt-on (or pin-on).
 - 5.14.13 Operating Weight: 1,105 pounds
 - 5.14.14 Mounting:
 - 5.14.14.1 Unit to include same quick attach mounting system to the host unit as the other attachments.
 - 5.14.14.2 Hydraulic quick connections are to be used for easy removal.
 - 5.14.14.3 Hydraulic quick connections are to include protective caps with chains or heavy-duty rubber.
 - 5.14.15 Spare Shear Pins: To include 12 complete sets. Hydraulic relief is acceptable in lieu of shear pin design.
- 5.15 **Mower Attachment for Use with Wide Track Machine: (Optional item pricing is required. Refer to Section IV – Bid Price Schedule.)**
 - 5.15.1 Provide manufacture's brochure with bid package.
 - 5.15.2 90" inches minimum cutting width.
 - 5.15.3 Cutting Height Range: 2 inches to 5.5 inches
 - 5.15.4 Mounting: Unit to include same quick attach mounting system as the host unit as the other attachments.

LOT 2
SPECIFICATIONS
Equipment Trailer

1.0 EQUIPMENT TRAILER (STATE CLASS #611-SKID): (Optional item pricing is required. Refer to Section IV – Bid Price Schedule.)

- 1.1 It is the purpose of the following specification to describe a minimum 12,000 pound payload capacity, tandem axle trailer, equipped with a pintle hitch, capable of safely transporting the skid steer loader along with, as a minimum, the bucket, sweeper broom, and rotary brush cutter.
- 1.2 Highway Application: Must be capable of carrying a minimum 12,000 pound payload at 65 MPH.
- 1.3 Pintle Hitch Trailer: Lunette eye (pintle hitch) to include multiple height adjustment settings from 18 to 26 inches, minimum.
- 1.4 Overall Trailer width, 102 inches maximum.
- 1.5 Deck length, 18 feet minimum.
- 1.6 Wood (fir) decking with minimum nominal thickness of two (2) inches.
- 1.7 Tie Downs: To include minimum, Five (5) each side, 5/8 inch diameter, "D" rings, ten (10) total, evenly spaced from front to rear.
- 1.8 Fold-up ramps to be self-supporting such as built in stabilizer legs being an integral part of the ramp.
- 1.9 Tongue Screw Jack: 10,000 pound minimum capacity, folding, with crank.
- 1.10 Headboard, steel construction, running full width of deck.
- 1.11 Tool Box: Heavy-duty, Lockable, top hinged (no piano hinge), approximately 10Hx12Wx24L (inches) or similar, for chains and binders, drain holes each bottom corner, painted inside and out including primer.
- 1.12 Axles, two (2) axles with single wheels.
- 1.13 Tires and Wheels:
 - 1.13.1 To include five (5) each, including spare, 16 inch minimum, 10 Ply, tubeless tires with heavy-duty steel disc wheels.
 - 1.13.2 Mounted spare tire and wheel to be strapped to trailer deck.
- 1.14 Brakes:
 - 1.14.1 To be electric brake system on all wheels.
 - 1.14.2 To include break-a-way with rechargeable 12 volt battery.
- 1.15 Lighting:
 - 1.15.1 All marker and signal lighting to be LED.
 - 1.15.2 To include seven (7) pole POLLACK #11-704 electrical plug with POLLACK #11-763 Cable Guard.

END OF SPECIFICATIONS