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Attachment A: Basic Specifications for an Asphalt Crack Router

3.0 Frame and axle:

The unit must have a rigid, jig-welded tubular and plate steel frame including lifting bale. It will employ a pivoting motor mount that adds to structural integrity by becoming a rigid structural component when secured yet allow easy belt adjustment. Two (2) belt adjustment bolts will be used to prevent engine platform twisting. For safety the tires will be equipped with safety hubs that will prevent any backward travel when quick stop system engages.

YES	NO

3.1 Frame and axle minimum requirements:

3.1.1 Construction: Tube Steel frame construction:

3.1.2 Motor mount: Pivoting mount to allow belt tensioning.

3.1.3 Drum Access: For better drum access, a swing up access door must be provided. Latches will be included to secure and no tools must be required for opening.

3.1.4 Wheels: Wheels will be 4:80 x 8 highway rated with automotive type tapered roller bearings mounted on a machined axle.

3.1.5 Safety Hubs: Safety hubs that prevent any rearward movement when anti-kickback system engages.

3.1.6 Forward travel: Forward travel must not be impeded when safety hubs are locked.

YES NO

EXCEPTIONS:

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4.0 Operator Handle and control station:

The Asphalt router will be equipped with an adjustable handle and operator station. All control functions for engine and depth adjustment must be included and centrally located. A hands-free engine kill system must also be located at control station.

YES	NO

4.1 Handle and control station minimum requirements:

4.1. Operator handle: Handle will be adjustable for operator height. Minimum 12 inch height adjustment required.

4.1.2 Raise/lower switch: Will be mounted within easy reach of handle grip.

4.1.3 Cut Control: The Router will be equipped with an Electronic Cut Control system. A depth adjustment knob will be located on the control panel to set cut depth. Once depth is set, by setting the raise/ lower switch back to "Auto", the cut depth will return to previous depth automatically.

YES NO

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4.1.4 Engine Throttle and Choke: Both throttle and choke control levers will be remote mounted in control panel.

4.1.5 Hands-free engine kill: An engine kill system will be included and be activated with a bar that runs the whole length of the control station. In an emergency, the operator can kill engine by simply bumping the bar.

EXCEPTIONS:

5.0 Cutter Head and bearings:

The Cutter head (drum) must be a split two piece design with 1-3/16" x 12" solid steel, surface ground drums allowing replacement of either side individually. Additional access to drum will be provided with an access panel that allows more than 60% access to drum without rotating.

YES	NO

5.1 Cutter Drum and bearings minimum requirements:

YES NO

5.1.1 Drum design: Solid steel 2 piece drum design allowing just one side to be replaced.

5.1.2 Dimensions: minimum 1 3/16 inch x 12 inch

5.1.3: The composite drum shall be mounted to a 1-11/16" shaft by standard tapered bushings to eliminate scoring of shaft.

5.1.4: Swing away pin retainers must allow pin removal from either side of drum.

5.1.5: Drum shall accommodate six standard cutter bits.

5.1.6: (6) Carbide tipped steel cutting star bits must be included and installed on drum.

5.1.7: Heavy duty roller bearing pillow blocks. Split pillow block housing is required to allow removal of drum assembly by removing only the bearing caps and belt.

5.1.8: The drum must include six (6) hardened pins upon which the cutters will rotate and sixty-six (66) hardened spacers to be installed on the drum assembly for adjustment of width of routed slot.

EXCEPTIONS:

6.0 Engine and drive belt:

The unit must be equipped with a min. 30 HP, twin cylinder overhead valve gasoline engine with hydraulic valve lifters, Fixed-jet Smart-Choke equipped side-draft carburetor, integrated oil cooler, spin-on oil filter, electronic ignition and spark advance.

YES	NO

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6.1 Engine and drive belt minimum requirements:

	YES	NO
6.1.1 Gas engine: Twin cylinder overhead valve gasoline engine with hydraulic valve lifters.		
6.1.2 Engine HP: Minimum 30 HP for best cutting.		
6.1.3 Engine Protection: Engine will be protected by an Oil sentry system to shut engine down during low oil conditions.		
6.1.4 Air Filtration: Dual dry-element inner and outer air cleaners.		
6.1.5: Electric start must also be included		
6.1.6: Spin on oil filter will mounted on engine.		
6.1.7: Power shall be transmitted by four groove 3V section sheaves on the engine and drum shaft with a single banded (4) groove belt.		
6.1.8: Belt protection will be afforded by a bolt-on vented belt guard. The guard must also fully cover the Muffler to protect the operator from hot surfaces.		

EXCEPTIONS:

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7.0 Included Options: If box is checked yes then item must be included.

	YES	NO
7.1 Optional Gauge Kit includes: Amp meter and Oil pressure gauge.		
7.2 Extra Carbide tipped Router bit set of six cutters.		
7.3 Digital Tach/ Hour meter.		
7.4 Replacement set of pins (6)		
7.5 Replacement set of Washers (66)		
8.6 TRAVEL ASSIST OPTION: Travel assist option allows self-propelled motion for transport to next crack and loading/unloading of Router. When unit Raise/ lower switch is held in raise position, friction wheels will engage router wheels. When switch is released, travel will automatically stop.		

10.0 Paint and safety decals:

The unit shall be painted using Dupont acrylic paint in black with red accent colors. It will be equipped with required safety decals and signage.

YES	NO

11.0 Warranty:

The manufacturer shall warranty the equipment for a period of one year. Bidder warranty policy must be included with bid submittal.

YES	NO