

December 2025

The purpose of these specifications is to describe a double-boiler type mixer specifically designed for and shall be capable of heating and melting Crafcro TechCrete, Mastic and Matrix products. All qualified bidders must have and maintain a complete inventory of repair parts and have experienced factory-trained service personnel for this equipment.

|                                                                                                                                                                                                                 | <u>Comply</u> | <u>Does Not Comply</u> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------|
| <b>1. GENERAL</b>                                                                                                                                                                                               |               |                        |
| A. This machine shall be the manufacturer's current production model manufactured in the United States of America.                                                                                              | _____         | _____                  |
| B. The machine will be capable of starting at ambient temperature and be ready for operation in one and a half hours or less.                                                                                   | _____         | _____                  |
| C. A comprehensive safety manual and an operational/maintenance manual shall be supplied with each unit.                                                                                                        | _____         | _____                  |
| D. Thermostatic control for the heat transfer medium shall be provided and shall have sufficient sensitivity to maintain product temperature within the manufacturer's specified application temperature range. | _____         | _____                  |
| E. Temperature indicating devices shall have intervals no greater than 5°F (2.8°C) and shall be calibrated as required to assure accuracy.                                                                      | _____         | _____                  |
| F. The mixer shall have a continuous material mixing system to provide uniform viscosity and temperature of the material being applied.                                                                         | _____         | _____                  |
| <b>2. REQUIRED SAFETY FEATURES</b>                                                                                                                                                                              |               |                        |
| A. The unit shall have a safety shut-off on the lid that automatically stops the agitator when the lid is opened.                                                                                               | _____         | _____                  |
| B. This unit shall have a safety chain in place to prevent accidental discharge of material.                                                                                                                    | _____         | _____                  |
| C. The unit shall be oil jacketed to ensure safe heating and handling of materials. Direct fire and air-jacketed units are not acceptable.                                                                      | _____         | _____                  |
| D. All fluid tanks shall be located and mounted above the top of the trailer frame to prevent exposure and damage.                                                                                              | _____         | _____                  |
| E. The material tank meets all FMCSA requirements for elevated temperature materials by meeting CFR Title 49, Part 173.247.                                                                                     | _____         | _____                  |
| F. Other _____                                                                                                                                                                                                  | _____         | _____                  |

|                                                                                                                                                                                                                                                                              | <u>Comply</u> | <u>Does Not<br/>Comply</u> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------|
| <b>3. <u>TOWING FRAME AND JACK</u></b>                                                                                                                                                                                                                                       |               |                            |
| A. This machine shall be trailer mounted.                                                                                                                                                                                                                                    | _____         | _____                      |
| B. The longitudinal side frames and tongue members of the trailer shall be on one continuous piece construction composed of hot rolled steel channel having the minimum dimensions of 5 inches (12.70 cm) web, 3/16 inch (.48 cm) thickness with 1.75 inch (4.5 cm) flanges. | _____         | _____                      |
| C. The configuration of the channels shall be cold formed with the flanges on the outside resulting in a one-piece frame member with no cross-welding of or on the flanges to avoid any possibility of flange stress cracking.                                               | _____         | _____                      |
| D. The tongue shall be equipped with an appropriate heavy duty pintle hitch. It shall be adjustable in height above ground level from a minimum of 14 inches (35.6 cm), to a maximum of 32 inches (81.3cm), permitting level towing with a wide range of towing vehicles.    | _____         | _____                      |
| E. The towing hitch shall be bolted to the hitch plate for easy height adjustment and conversion to other hitches.                                                                                                                                                           | _____         | _____                      |
| F. A screw-post tongue jack shall be a heavy-duty type with a load capacity of 5,000 pounds (2,268 kg), and it shall be side-mounted and swing away for positive road clearance while under tow.                                                                             | _____         | _____                      |
| G. Other _____                                                                                                                                                                                                                                                               | _____         | _____                      |

#### **4. RUNNING GEAR**

|                                                                                                                                                                                                                                   |       |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|
| A. The unit shall be equipped with a dual independent rubber torsional suspension having a safe load capacity of 9,900 pounds (4,491 kg), electric brakes, modular disc wheels, and ST225 R75 - 15 tubeless tires (Load Range D). | _____ | _____ |
| B. This suspension eliminates springs and shackles that rust and reduce ground clearance.                                                                                                                                         | _____ | _____ |
| C. The trailer shall have dual LED taillights, stop lights and turn signals.                                                                                                                                                      | _____ | _____ |
| D. Lights shall be ICC-approved.                                                                                                                                                                                                  | _____ | _____ |
| E. A license plate holder and light shall also be attached to the rear of trailer.                                                                                                                                                | _____ | _____ |

|                                                                                                                                                                                                                                                                              | <u>Comply</u> | <u>Does Not Comply</u> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------|
| F. The unit shall also be equipped with two safety chains not less than 48 inches (121.9cm) of .38 inches (.97 cm) coil proof chain, attached to the tongue with a drilled type clevis pin on the end attached to the frame and a screw type clevis pin on the opposite end. | _____         | _____                  |
| G. The total shipping weight is approximately 5,300 pounds (2404 kg).                                                                                                                                                                                                        | _____         | _____                  |
| H. Other _____                                                                                                                                                                                                                                                               | _____         | _____                  |

## 5. HEATING TANK

|                                                                                                                                                                                                                          |       |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|
| A. The material heating tank shall be a U- shaped vessel with 17 inches (86 cm) radius by 48 inches (122 cm) long having a capacity of 200 gallons (757 L) at ambient temperature.                                       | _____ | _____ |
| B. The tank will have a rear discharge with a minimum opening of 42 square inches, which drops material onto an eight-inch-long spout.                                                                                   | _____ | _____ |
| C. The minimum height from the bottom of the spout to the ground shall be 19 inches to allow the use of a material handler or optional material chutes.                                                                  | _____ | _____ |
| D. A double boiler-type jacket shall create a reservoir that shall hold a minimum of 35 gallons (132 L) of heat transfer oil at 70°F (21.1°C). (Note: at 500°F (260°C) the heating oil will expand by approximately 18%) | _____ | _____ |
| E. The jacket shall wrap around 100% of the outside area of the material tank including the sides, front, back and bottom and allow for complete circulation of the heated transfer oil.                                 | _____ | _____ |
| F. The tank and jacket shall be made of not less than 0.1875 inch (0.476 cm) hot roll steel.                                                                                                                             | _____ | _____ |
| G. There shall be one plug to allow the entire heat transfer oil system to be drained.                                                                                                                                   | _____ | _____ |
| H. The heat transfer oil shall be ISO grade 68.                                                                                                                                                                          | _____ | _____ |
| I. The heating tank shall be insulated with a minimum of 1.5 inches (3.81 cm) thick high temperature ceramic insulation and covered by a 12 gauge (0.27 cm) steel outer wrapper.                                         | _____ | _____ |
| J. Fiberglass or rock wool insulation is unacceptable due to their moisture retention properties resulting in a significant loss of their insulating value.                                                              | _____ | _____ |
| K. Tank shall have two (2) 1500-watt 110-volt electric overnight heaters. (220V heaters available as options)                                                                                                            | _____ | _____ |
| L. Other _____                                                                                                                                                                                                           | _____ | _____ |

|                                                                                                                                                                               | <u>Comply</u> | <u>Does Not Comply</u> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------|
| <b>6. <u>EXPANSION TANK</u></b>                                                                                                                                               |               |                        |
| A. A vented expansion tank for heat transfer oil shall be provided.                                                                                                           | _____         | _____                  |
| B. Other _____<br>_____                                                                                                                                                       | _____         | _____                  |
| <b>7. <u>HYDRAULIC SYSTEM</u></b>                                                                                                                                             |               |                        |
| A. The hydraulic system shall incorporate a hydraulic pump to power the mixer.                                                                                                | _____         | _____                  |
| B. Mixer valve shall be solenoid operated by toggle switch located in the burner control box.                                                                                 | _____         | _____                  |
| C. The control will allow for bi-directional operation of the mixer.                                                                                                          | _____         | _____                  |
| D. A flow control valve will be mounted by the burner control box to allow the operator to adjust the mixer operating speed.                                                  | _____         | _____                  |
| E. The minimum 15 gallon (57 L) hydraulic tank will be equipped with an internal 10-micron full-flow filter.                                                                  | _____         | _____                  |
| F. The filter shall be equipped with a restriction indicator to indicate the need for service.                                                                                | _____         | _____                  |
| G. Other _____<br>_____                                                                                                                                                       | _____         | _____                  |
| <b>8. <u>INSULATION</u></b>                                                                                                                                                   |               |                        |
| A. The heating tank shall be insulated with a minimum of 1-½ inch (3.81 cm) thick high temperature ceramic insulation and covered by a 12-gauge (.27 cm) steel outer wrapper. | _____         | _____                  |
| B. Fiberglass or rock wool insulation is unacceptable due to their moisture retention properties resulting in a significant loss of their insulating value.                   | _____         | _____                  |
| C. Other _____<br>_____                                                                                                                                                       | _____         | _____                  |
| <b>9. <u>LOADING HATCH</u></b>                                                                                                                                                |               |                        |
| A. One low profile opening for loading shall be required.                                                                                                                     | _____         | _____                  |
| B. The loading height shall not exceed 61.5 inches (156 cm).                                                                                                                  | _____         | _____                  |
| C. The opening shall have a minimum area of 384 square inches (2477 square cm).                                                                                               | _____         | _____                  |
| D. One opening shall be equipped with a permanent grated inner cover plate suitable to store a material bucket to allow draining back into the material tank.                 | _____         | _____                  |
| E. Each lid shall have a latching system to prevent accidental                                                                                                                | _____         | _____                  |

|                                                                                                                                                                                                                                                                                                    | <u>Comply</u> | <u>Does Not Comply</u> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------|
| opening.                                                                                                                                                                                                                                                                                           | _____         | _____                  |
| F. Other _____<br>_____                                                                                                                                                                                                                                                                            | _____         | _____                  |
| <b>10. <u>HEATING SYSTEM</u></b>                                                                                                                                                                                                                                                                   |               |                        |
| A. The heat transfer oil is heated by a 369,000 BTU diesel burner at the bottom of the heat transfer oil tank.                                                                                                                                                                                     | _____         | _____                  |
| B. The burner shall fire into an easy access removable burner combustion box. The box will be insulated by a high temperature flexible insulation that is resistant to damage from the vibration and over road travel. Rigid insulation is unacceptable.                                           | _____         | _____                  |
| C. The burner and combustion box shall be positioned offset from the center of the machine towards the passenger side frame rail. To allow safe and easy access for maintenance and repair, no components shall be positioned between the passenger side frame rail and the burner/combustion box. | _____         | _____                  |
| D. The total area exposed to the burner shall be a minimum of 5,941 square inches (38,328 square cm).                                                                                                                                                                                              | _____         | _____                  |
| E. The material tank shall have a minimum of 5,736 square inches (37,006 square cm) of contact with the heat transfer oil.                                                                                                                                                                         | _____         | _____                  |
| F. If equipped with an optional heated material chute system, a pump that circulates the heat transfer oil is also included to provide fast and reliable heating of the heated material chute.                                                                                                     | _____         | _____                  |
| G. Other _____<br>_____                                                                                                                                                                                                                                                                            | _____         | _____                  |
| <b>11. <u>IGNITION OF BURNER</u></b>                                                                                                                                                                                                                                                               |               |                        |
| A. The burner shall be lit by a constant duty high voltage transformer powering an electric spark igniter.                                                                                                                                                                                         | _____         | _____                  |
| B. This igniter shall work with a sensor that detects a lack of burn or ignition and shuts down the fuel supply.                                                                                                                                                                                   | _____         | _____                  |
| C. The burner fuel system is self-priming with a removable in-line filter along with feed and return lines to the main fuel tank.                                                                                                                                                                  | _____         | _____                  |
| D. The thermostat control is located on the curbside of the machine for operator safety.                                                                                                                                                                                                           | _____         | _____                  |
| E. Other _____<br>_____                                                                                                                                                                                                                                                                            | _____         | _____                  |
| <b>12. <u>TEMPERATURE CONTROL</u></b>                                                                                                                                                                                                                                                              |               |                        |
| A. The mixer shall have a thermostatic control device that will automatically regulate hot oil and material temperature.                                                                                                                                                                           | _____         | _____                  |

|                                                                                                                                                                                    | <u>Comply</u> | <u>Does Not Comply</u> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------|
| B. The control shall have a digital readout for temperatures of hot oil and material.                                                                                              | _____         | _____                  |
| C. The thermostat shall control burner ignition for a material temperature range from a low of 200°F (93.3°C) up to a high of 450°F (232.2°C).                                     | _____         | _____                  |
| D. The hot oil temperature range shall be from a low of 150°F (65.5°C) up to a high of 550°F (287.7°C).                                                                            | _____         | _____                  |
| E. The controls shall be activated by a single power switch.                                                                                                                       | _____         | _____                  |
| F. All temperature controls shall be contained in a single weatherproof control box.                                                                                               | _____         | _____                  |
| G. The burner has an audible 105db alarm that will sound in the event the burner goes into lockout mode. There is a reset switch to reset the burner if it goes into lockout mode. | _____         | _____                  |
| H. Other _____<br>_____                                                                                                                                                            | _____         | _____                  |

### 13. DRIVE AND DRIVE CONTROLS

|                                                                                                                                                      |       |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|
| A. The motive force of the mixer shall be a hydraulic motor driven by a single hydraulic pump.                                                       | _____ | _____ |
| B. The drive control governing the rotational direction of the mixer shall be controlled by a solenoid-operated hydraulic control valve.             | _____ | _____ |
| C. The valve is electrically actuated by a toggle switch on the burner control panel and can be reversed as required.                                | _____ | _____ |
| D. A flow control valve can be used to adjust mixer rotational speed.                                                                                | _____ | _____ |
| E. The hydraulic tank will be equipped with an internal 10-micron full flow filter that includes an indicator to indicate the need for service.      | _____ | _____ |
| F. A sight level indicator equipped with a thermometer to measure oil temperature will be mounted on the tank and located where it is easily viewed. | _____ | _____ |
| G. Other _____<br>_____                                                                                                                              | _____ | _____ |

### 14. AGITATION

|                                                                                                                                   |       |       |
|-----------------------------------------------------------------------------------------------------------------------------------|-------|-------|
| A. The material shall be mixed by a hydraulically driven, full sweep horizontal mixer shaft with four opposing V- shaped paddles. | _____ | _____ |
| B. This feature ensures that material remains in complete suspension.                                                             | _____ | _____ |

|                                                                                                                             | <u>Comply</u> | <u>Does Not<br/>Comply</u> |
|-----------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------|
| C. The mixer shaft shall be coupled from a 6 to 1 gearbox reducer to the hydraulic motor capable of 400 ft. lbs. of torque. | _____         | _____                      |
| D. The mixer rotates in both directions.                                                                                    | _____         | _____                      |
| E. For additional safety the mixer will shut off automatically when the loading hatch is opened.                            | _____         | _____                      |
| F. Other _____                                                                                                              | _____         | _____                      |

#### 15. ENGINE

|                                                                                                                                                                                                                                                                                                                                                  |       |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|
| A. The unit shall be equipped with a diesel engine complying with the following specifications:<br>Electric Start<br>Three Cylinder, 19 HP (14.2 17.8 kw)<br>Tier 4 Final Emissions<br>Full Flow Oil Filter<br>Water cooled.<br>Dual Speed Control<br>Engine Shutdown Package (low oil pressure & high temperature)<br>Digital Engine Controller | _____ | _____ |
| B. Digital engine controller shall have a gauge package that includes battery voltage, hour meter, and engine RPM. It shall also have an Auto Start function which preheats and starts engine.                                                                                                                                                   | _____ | _____ |
| C. The controls will run the engine at "warm up" RPM for 30 seconds before it automatically adjusts to a standard engine idle RPM for material heating. There is a switch that raises engine speed for mixing the material when ready and/or needed.                                                                                             | _____ | _____ |
| D. Other _____                                                                                                                                                                                                                                                                                                                                   | _____ | _____ |

#### 16. FUEL CAPACITY

|                                                                                                                     |       |       |
|---------------------------------------------------------------------------------------------------------------------|-------|-------|
| A. The melter shall have a 26 gallon (98.42 l) diesel fuel tank for operation of the entire unit.                   | _____ | _____ |
| B. The unit will be capable of operating for a minimum of 12 hours on one tank of fuel.                             | _____ | _____ |
| C. The tank shall be equipped with full length sight gauges for fuel level indication protected in a steel cover.   | _____ | _____ |
| D. The fuel tank meets all FMCSA requirements for non-side-mounted fuel tanks by meeting CFR Title 49, Part 393.67. | _____ | _____ |

#### 16. TOOL HEATING BOX AND TOOLS

|                                                                                                                              |       |       |
|------------------------------------------------------------------------------------------------------------------------------|-------|-------|
| A. The tool heating box shall be 44 inches (111.7 cm) in height, 14 inches (35.5 cm) in width, and 30 inches (76.2 cm) long. | _____ | _____ |
|------------------------------------------------------------------------------------------------------------------------------|-------|-------|

|                                                                                                                                                                                                                                                                                    | <u>Comply</u> | <u>Does Not Comply</u> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------|
| B. The tool heating box shall be constructed of not less than 0.105 (0.267 cm) HRS outer skin, be insulated with a minimum of 1 inch (2.5 cm) thick high temperature ceramic insulation and have 0.06 (.15 cm) stainless steel inner liner.                                        | <hr/>         | <hr/>                  |
| C. Fiberglass or rock wool insulation is unacceptable due to their moisture retention properties resulting in a significant loss of their insulating value over an eighteen-month period.                                                                                          | <hr/>         | <hr/>                  |
| D. The diesel burner shall be bolted to the side of a combustion chamber and the tool heating box is welded to the top of this chamber.                                                                                                                                            | <hr/>         | <hr/>                  |
| E. The burner shall have a minimum of 82,000 BTU supplied by a 12Vdc burner.                                                                                                                                                                                                       | <hr/>         | <hr/>                  |
| F. The burner shall be controlled by an "On" – "Off" switch located at the rear of the machine.                                                                                                                                                                                    | <hr/>         | <hr/>                  |
| G. The tool heating box shall include a front door opening for heating larger tools. The door opening shall be 26.8 inches (68.1 cm) in height, and 11.5 inches (29.2 cm) in width. The door opening is designed in such a way to support the tool handle when the door is closed. | <hr/>         | <hr/>                  |
| H. The tool heating box shall include a side door opening for cleaning out used material. The door opening shall allow access to the entire lower portion of the burner box.                                                                                                       | <hr/>         | <hr/>                  |
| I. The tool heating box shall include an internal removable deflector/chute to protect the burner from tool damage and to direct used material into the collection area away from the burner.                                                                                      | <hr/>         | <hr/>                  |
| J. Tools included shall be: Two (2) each ironing wands, Two (2) each chute scrapers, One (1) each tank scraper, Two (2) each metal pour buckets.                                                                                                                                   | <hr/>         | <hr/>                  |
| K. Other <hr/>                                                                                                                                                                                                                                                                     | <hr/>         | <hr/>                  |
| <b>17. <u>PAINT</u></b>                                                                                                                                                                                                                                                            |               |                        |
| A. All painted surfaces shall be coated with Axalta two part epoxy paint applied by Axalta certified painters                                                                                                                                                                      | <hr/>         | <hr/>                  |
| B. Other <hr/>                                                                                                                                                                                                                                                                     | <hr/>         | <hr/>                  |
| <b>18. <u>MISCELLANEOUS</u></b>                                                                                                                                                                                                                                                    |               |                        |
| A. There shall be a gate valve at the rear of the machine.                                                                                                                                                                                                                         | <hr/>         | <hr/>                  |
| B. Other <hr/>                                                                                                                                                                                                                                                                     | <hr/>         | <hr/>                  |
| <b>19. <u>TRAINING</u></b>                                                                                                                                                                                                                                                         |               |                        |

|                                                                                                                                                                                         | <u>Comply</u> | <u>Does Not Comply</u> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------|
| A. An authorized, factory-trained representative will be made available for a full day of training at a facility designated by the bidding agency.                                      | _____         | _____                  |
| B. At this training session a complete operational, mechanical and safety overview will occur.                                                                                          | _____         | _____                  |
| C. Both safety and operational manuals will be viewed and discussed with all concerned personnel.                                                                                       | _____         | _____                  |
| D. Additionally, the representative will be available at that time for "on the job" safety and field training.                                                                          | _____         | _____                  |
| E. Other _____                                                                                                                                                                          | _____         | _____                  |
| <b>20. <u>SAFETY AND TRAINING MANUALS</u></b>                                                                                                                                           |               |                        |
| A. A written Safety Manual will be provided to the bidding agency.                                                                                                                      | _____         | _____                  |
| <b>21. <u>PARTS</u></b>                                                                                                                                                                 |               |                        |
| A. Bidders must show proof that a large stock of parts for the model of equipment upon which they are bidding is maintained at their facility.                                          | _____         | _____                  |
| <b>22. <u>AWARD</u></b>                                                                                                                                                                 |               |                        |
| A. Equipment is for use by the Highway Department and must meet the requirements of that agency as interpreted by the Highway Commissioner.                                             | _____         | _____                  |
| B. Prior to award the Purchasing Agency may require a visit to the supplier's facility to assure supplier has plant capacity to manufacturer and deliver equipment on time as required. | _____         | _____                  |
| C. If it is determined that the supplier cannot supply as requested, this is just cause for cancellation.                                                                               | _____         | _____                  |
| <b>23. <u>WARRANTY</u></b>                                                                                                                                                              |               |                        |
| A. The manufacturer shall warranty the equipment for two years or as otherwise noted in the manufacturer's standard warranty policy.                                                    | _____         | _____                  |
| <b>24. <u>QUALIFICATIONS OF BIDDERS</u></b>                                                                                                                                             |               |                        |
| A. No bid will be considered unless the bidder can meet the following conditions:                                                                                                       | _____         | _____                  |
| B. Bidder must have a parts/service location and keeps a sufficient stock of parts on hand at all times.                                                                                | _____         | _____                  |
| C. The equipment offered is a stock model chassis that meets the requirements of the specifications without material changes or                                                         | _____         | _____                  |

|                                                                                                                             | <u>Comply</u> | <u>Does Not<br/>Comply</u> |
|-----------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------|
| modifications.                                                                                                              | _____         | _____                      |
| D. The model is regularly advertised and sold by the manufacturer.                                                          | _____         | _____                      |
| E. The bidder has been engaged in the sale and support of this make and model of equipment for at least twenty-four months. | _____         | _____                      |

**OPTIONS (X if to be included):**

- ☐ 56825 - Removable Material Chute  
The material chute shall be minimum 37 inches (93.98 cm) in length by 8 inches (20.3 cm) in width by 4 inches (10.2) in depth with a steel thickness of 0.1345 inches (0.34 cm). The material chute shall pivot under the material drain and be easily removable. The material chute is designed to aid in the placement of material from machine directly into repair area.
- ☐ 57781 - Propane Torch and Bottle  
30 lb. bottle with regulator, 500,000 BTU propane hand torch with 20 foot (6.1 meter) hose.
- ☐ 57783 - Heated (heat transfer oil) Removable Material Chute  
The heat transfer oil heated material chute shall be minimum 37 inches (93.98 cm) in length by 8 inches (20.3 cm) in width by 4 inches (10.2) in depth with a steel thickness of 0.1345 inches (0.34 cm). A hydraulic driven 1.5 GPM heat transfer oil pump will circulate the oil from the heat transfer oil tank into the heated chute and back into the heat transfer oil tank. The heated chute shall pivot under the material drain and be easily removable. The heat transfer oil lines going to the chute shall have swivels and be insulated to protect the machine operators from burns. There shall be shut off valves on the heat transfer oil lines between the chute and the tank. The heated material chute is designed to aid in the placement of material from machine directly into repair area.
- ☐ 57650 - Hot Mastic Applicator  
For handling and distributing PolyPatch material from the Patcher to the repair area. Propane heated with material side discharge gate.
- | <input type="checkbox"/> Shoe Boxes (various sizes): | (L X W X H) |                                                   | (L X W X H) |
|------------------------------------------------------|-------------|---------------------------------------------------|-------------|
| <input type="checkbox"/> 58540N - Deep X Small       | 8 X 4 X 6   | <input type="checkbox"/> 58550N - Shallow X Small | 8 X 4 X 3   |
| <input type="checkbox"/> 32255 - Deep Small          | 8 X 8 X 6   | <input type="checkbox"/> 32350 - Shallow Small    | 8 X 8 X 3   |
| <input type="checkbox"/> 32250 - Deep Medium         | 8 X 10 X 6  | <input type="checkbox"/> 32351 - Shallow Medium   | 8 X 10 X 3  |
| <input type="checkbox"/> 32252 - Deep Large          | 8 X 12 X 6  | <input type="checkbox"/> 32352 - Shallow Large    | 8 X 12 X 3  |
| <input type="checkbox"/> 32253 - Deep X Large        | 8 X 14 X 6  | <input type="checkbox"/> 32353 - Shallow X Large  | 8 X 14 X 3  |
- ☐ Drag Boxes (Non-heated or Heated Material Chute is required for use):
- |                                                               |                                           |
|---------------------------------------------------------------|-------------------------------------------|
| <input type="checkbox"/> 57885 - 10" & 4" Wide                | <input type="checkbox"/> 58517 - 36" Wide |
| <input type="checkbox"/> 57886 - 24" Wide                     | <input type="checkbox"/> 58520 - 48" Wide |
| <input type="checkbox"/> 58513 - Drag Box Weight Plate, 25lb. |                                           |
- ☐ 32243 - Extra Iron (2 included as Std)
- ☐ 32246 - Extra Chute Scraper (1 included as Std)
- ☐ 32258 - Extra Tank Scraper (1 included as Std)
- ☐ 32263 - Metal Bucket (2 included as Std)
- ☐ 20016 - 2 ½ Inch Pintle Hitch
- ☐ 20014 - 3 Inch Pintle Hitch
- ☐ 26058 - 10lb Fire Extinguisher & Cover
- ☐ 26059 - 10lb Fire Extinguisher Mounting Bracket
- ☐ 26098 - Tool Box
- ☐ Custom Paint
- ☐ Surge Brakes
- ☐ 45535 - Engine Cover
- ☐ 45599 - Engine Cover, Insulated
- ☐ 43549 - Spare Tire and Mount Bracket Kit
- ☐ 24086 - Lockable Battery Box
- ☐ 24194K - 220V Overnight Heaters (2 req'd) (110V Heaters are standard)
- ☐ Various Safety and Work Light kits, see brochure for more info.
- ☐ 20120 - Hitch Extension, 18"
- ☐ 20140 - Hitch Extension, 28"
- ☐ 20150 - Hitch Extension, 39"
- ☐ 24227 - Truck Connector, 7 Pin Round RV Connector, Blade Terminals

\_\_\_\_\_ 24183 - Truck Connector, 7 Pin Round Connector, Round Terminals  
\_\_\_\_\_ 24074 - Truck Connector, 6 Pin Round Connector  
\_\_\_\_\_ 23950N - Truck Connector, 5 Pin Flat Connector  
\_\_\_\_\_ 47268PK - Engine Gauge Package  
\_\_\_\_\_ 23119 – Cab Brake Controller  
\_\_\_\_\_ 23120 – Breakaway Battery w/ Charger  
\_\_\_\_\_ 26119 – Safety Hook w/ Latch (2 Req'd)

#### **APPROVED EQUAL**

The approved make and model for this specification is a Crafcro Patcher II. Bidders offering to supply other than the approved make and model must supply a detailed description of the equipment being offered. Bidders offering to supply equipment other than the approved make and model shall also supply a list of references of who have successfully heated, mixed and applied Crafcro TechCrete, Mastic and Matrix through the equipment being offered. For purposes of comparison a separate list of all deviations to this specification must be attached to your bid document.

Prior to bid award an on-site demonstration of the equipment offered may be requested. All bidders offering other than the approved model listed will be required to provide an on-site demonstration to verify that their unit complies with all specification requirements before their bid will be considered.

Failure to carry out the provisions noted herein is deemed sufficient reason to reject the bidder's proposal.