

Date:

## General Paving Specification Guide\*

Project Name:

Project Location:

Scope of Work:

*Note: Any and all accessible routes, defined as the continuous unobstructed path connecting accessible elements within a site, including but not limited to; parking access aisles, curb ramps, walks, and ramps, must comply with the United Federal Accessibility Standards (UFAS).*

Check all below that are applicable:

Y/N	Work Required:	Notes:
	Install new asphalt drive	
	Install new asphalt sidewalk	
	Resurface existing asphalt drive in its entirety.	
	Partial resurface of existing asphalt drive (mark the area to be redone).	
	Resurface existing sidewalk.	
	Partial resurface of existing asphalt sidewalk (mark the area to be redone).	
	Pavement painting / striping. UFAS requirements based on the number of employees / residents / visitors: ( <i>Note the required number of accessible spaces</i> ) 1 to 25: 1 accessible space 26 to 50: 2 accessible spaces 51 to 75: 3 accessible spaces 76 to 100: 4 accessible spaces	<i>Property with public areas (office, community room, etc.) shall have at least one of every 6 accessible spaces van accessible (with a minimum of one van accessible space in all cases).</i>
	Remove and replace the existing paving in its entirety.	
	Remove and replace the existing paving in specified areas.	
	Dig out, replace, and compact the base under the existing paving in specified areas (at least 12" under parking areas and roadways and 6" under sidewalks).	
	Clean and seal coat the existing parking / drive in their entirety.	
	Re-grade / loam and seed at edges to eliminate any drop-off.	
	Provide a warranty on workmanship. <b>Complete RD Form 1924-19.</b>	
	Other Specifications / Requirements:	

The property is financed by the USDA, Rural Development and proposals and work are subject to their contract forms, review and inspection. We reserve the right to reject any and all proposals.

All Payments shall be made per RD1924 - 6 construction contract procedures. Payments for reserve account projects will be made upon completion of the work and funds have been authorized by Rural Development.

**A. General Requirements**

The Work shall consist of constructing a Hot Mix Asphalt Pavement using designated mix types for the roadways, sidewalks and parking lots as detailed below. All work shall be constructed as outlined below and as directed by the Owner's Representative.

1. Construct new parking areas with a 1.25" compacted lift min. 9.5 mm Superpave hot mix asphalt surface course on 1.75" compacted lift min. 19.0 mm Superpave hot mix asphalt binder course. 6" thick minimum, MDOT 703.06 Type B, compacted granular base. 12" thick min., MDOT 703.06 Type D, compacted granular sub-base. Note: aggregate sub-base and base material must be extended a minimum of 24" past edge of pavement where pavement is not bounded by curb, unless otherwise noted. Recommended thicknesses are shown. If a different thickness is required please specify: \_\_\_\_\_.
2. Construct new sidewalk areas with a 1" compacted lift min. 9.5 mm Superpave hot mix asphalt surface course on 1" compacted lift minimum 9.5 mm Superpave hot mix asphalt binder course. 6" thick minimum, MDOT 703.06 Type B, compacted granular base. Recommended thicknesses are shown. If a different thickness is required please specify: \_\_\_\_\_.
3. Overlay parking areas with a 1" compacted lift of MDOT 50 gyration 9.5 mm/D surface mix. All low areas will be shimmed with a variable depth lift of MDOT 50 gyration 9.5 mm/D surface mix. All areas to be overlaid will receive 0.025 to 0.050 GAL/SY of an appropriate type emulsion tack coat prior to placing any new pavement. Recommended thicknesses are shown. If a different thickness is required please specify: \_\_\_\_\_.
4. Overlay sidewalks with a 1" lift of MDOT 50 gyration 9.5 mm/D mix. All low areas will be shimmed with a variable depth lift of MDOT 50 gyration 9.5 mm/D surface mix. All areas to be overlaid will receive 0.025 to 0.050 GAL/SY of an appropriate type emulsion tack coat prior to placing any new pavement. Recommended thicknesses are shown. If a different thickness is required please specify: \_\_\_\_\_.
5. Remove designated areas of unserviceable existing pavement structure to the base gravel, replace with compacted equal depth of 9.5 mm Superpave hot mix asphalt surface course and 19 mm Superpave hot mix asphalt binder course.
6. Remove designated areas of unserviceable existing sidewalk structure to the base gravel, replace with compacted equal depth of 9.5 mm Superpave hot mix asphalt surface course and 9.5 mm Superpave hot mix asphalt binder course.
7. Restripe/paint all newly paved areas to include all parking stalls, crosswalks, and handicap accessible spaces to match existing conditions, MDOT specifications, and UFAS whichever is most stringent.

**B. Construction**

1. All driveway entrances shall be ground prior to placement and a butt joint will be utilized to match with existing pavement. Any driveway that is lower than the street shall have a berm installed so as to prevent surface water from entering the driveway unless otherwise specified by the Owner's Representative. For drives, sidewalks, island and other incidental handwork off the traveled way, commercial "D" mix may be used.
2. Butt joints shall be used at any intersecting of any existing pavement at the beginning and end of the project.
3. The construction of Hot Mix Asphalt shall be carried on only when the surface on which the material is to be placed is dry, and when the atmospheric temperature is above 45° F and rising. The minimum hot mix asphalt pavement temperature shall be 275° F at the time of placement.

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4. All existing paved surfaces to be newly paved shall be thoroughly cleaned by the contractor and dry and shall be tack coated prior to placement of any new pavement at a rate of 0.025 to 0.050 GAL/SY. All paving operations shall cease when the surface being paved is wet.
5. Surface tolerances shall be checked according to MDOT Standard Specifications, sections 401.101.
6. All mixing, spreading, finishing, and compacting and constructing joints shall meet Maine DOT Specifications, sections 401.14, 401.15, 401.16, 401.17 respectively unless otherwise directed.
7. Thoroughly clean surfaces free of dirt, sand, gravel, oil and other foreign matter prior to applying painting/stripping. Protect adjacent curbs, walks, fences, and other items from receiving paint.
8. Apply marking paint at a rate of one gallon per 300-400 LF of four inch wide stripes or to manufacturer's specification. Apply stripes straight and even when temperatures are between 50°F and 95°F.

### **C. Seal Coating**

1. The surface to receive Asphalt Sealcoat must be free of all foreign material and dry immediately prior to sealcoat application. Cleaning may be by air blowing, vacuum, mechanical sweeper, washing, or other techniques as approved by the manufacturer. If washing the existing surface is used, the surface shall not have any standing water prior to application of the sealcoat. Salt, deicing agents, fertilizers, hard water deposits and other such chemicals will promote lack of bonding of the sealcoat to the existing surface any may require extraordinary cleaning measures.
2. Cracks in excess of 1/4 inch, but less than one inch in width must be sealed prior to application of the sealcoat. Cracks must be cleaned of all weeds and debris prior to crack sealing with crack filler. The crack filler shall be applied per manufacturer's recommendations and must be dry to the touch prior to application of the sealcoat. Cracks that contain weeds and other live vegetable matter must be treated with locally approved non-oil based weed control prior to application of crack filler.
3. Cracks wider than one inch shall be filled with a fine aggregate hot, dense graded asphalt concrete.
4. Crack filler shall be a hot or cold applied product designed for use in asphaltic concrete made from petroleum asphalt, modified polymers, and suitable inert fillers. The properties of the Crack filler shall be such as to be compatible with the Asphalt Sealcoat.
5. Prior to application of sealcoat, deposits of grease or oil shall be cleaned by scraping, burning, and/or the use of approved detergents in order to promote adhesion of the sealcoat. After cleaning the areas described above, the areas shall be sealed with an oil seal. Oil seal shall be a quick drying latex emulsion with suitable add mixtures manufactured specifically for the purpose of isolating the Asphalt Sealcoat from any residual oils, petroleum grease, and gasoline stained pavement. The properties of the Oil seal shall be such as to be compatible with the Asphalt Sealcoat. In areas where the foreign oil or grease has penetrated the asphalt concrete such that cleaning as described above is not effective, the affected areas shall be removed to the depth necessary but not less than 3/4 inch. The removed asphalt concrete shall be replaced with new asphalt concrete. On excessively weathered surfaces or areas such that cleaning operation leave a film of dust, a tack coat of SS1h shall be applied. The tack coat shall consist of two (2) parts Asphalt Sealcoat with One (1) part water applied at a rate of 0.05 to 0.10 gal/sq. yd. The tack coat must be dry prior to application of the Asphalt Sealcoat.

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6. Areas of structurally unsound asphalt concrete such as alligator cracking, low spots (birdbaths) or rutting must be properly repaired prior to placement of the Asphalt Sealcoat.

7. Application

- a. Application of the Asphalt Sealcoat shall be by mechanical means using rubber faced squeegees, brooms, distributor bar /wand, or combinations of these or other techniques approved by the Manufacturer.
- b. The Asphalt Sealcoat being applied shall be uniform and free flowing, free of lumps and other inconsistencies. Potable water may be added as necessary as per manufacturer's recommendation, for consistency and spreadability but shall not exceed 15% by volume. If after the addition of the maximum allowable water volume the sealcoat is unsuitable, the materials shall be rejected and removed from the site.
- c. The sealcoat must be thoroughly dry prior to application of the second or subsequent coats.
- d. Application of Asphalt Sealcoat in ambient temperatures in excess of 80 degrees Fahrenheit shall require pretreatment of the asphalt concrete surface with a water mist. The water must not be standing, but the surface should be damp prior to sealcoat application. This treatment is also recommended for application on porous surfaces where the water within the sealcoat may be absorbed too quickly by the existing pavement surface.
- e. Asphalt Sealcoat shall be applied uniformly over the prescribed area in continuous parallel lines in a manner so that no ridges or uncoated areas shall exist. Application rates will vary depending on the texture of the existing asphalt surfaces requiring more sealcoat than smooth surfaces.
- f. Traffic shall not be allowed on the Asphalt Sealcoat until the sealcoat is thoroughly cured which in warm weather conditions is approximately 24 hours. Minor scuffing or power steering marks may occur on a newly applied surface in warm weather.

8. Application Rates

- a. Smooth, Dense Surface - 20 Gals. per 1,000 Sq. Ft.
- b. Medium Surface - 30 Gals. per 1,000 Sq. Ft.
- c. Rough, Aged Surface - 40 Gals. per 1,000 Sq. Ft.
- d. Excessively Rough, Aged Surface - 50 Gals. per 1,000 Sq. Ft.
- e. Asphalt Sealcoat shall not be applied when the ambient temperature is less than 55 degrees for the surface temperature is less than 60 degrees F. Sealcoat shall be applied within 24 hours prior to forecast rain, freezing temperatures, during rain, or when the surface contains standing water.

**D. UFAS requirements**

1. *Note: the items listed here are for reference only and do not encompass all of the required standards; the Contractor is responsible to ensure the work fully complies with UFAS.*
2. Parking spaces for disabled people shall be at least 96" wide and shall have an adjacent access aisle 60" wide minimum. The slope in either direction shall be no greater than 1:48 (2%).  
*Exception:* if accessible parking spaces for vans designed for handicapped persons are provided, each should have an adjacent access aisle at least 96" wide. Access aisles shall be marked so as to discourage parking in them.

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3. Accessible parking spaces shall be designated as reserved for the disabled by pavement marking and a sign showing the symbol of accessibility. Signs shall be 60" minimum above the finish floor or ground surface measured to the bottom of the sign.
4. Curb ramps: minimum width shall be 36" exclusive of flared sides; maximum slope is 1:12. Flared sides maximum slope is 1:12. Curb ramps shall be located or protected to prevent their obstruction by parked vehicles.
5. Sidewalks: minimum width shall be 36" with a maximum cross slope of 1:48. Any sidewalk that is part of an accessible route shall have a maximum slope of 1:20. Any accessible route that has a greater than 1:20 slope is considered a ramp.
6. Maximum change in level on an accessible route is 1/2".

#### **E. Miscellaneous**

##### **1. Pre-inspection**

Each Contractor, before submitting an offer, shall become completely familiar with the required work and shall rely on their own investigation. The Owner's Representative will be available to have the site/sites proposed for paving inspected. No consideration will be granted for any alleged misunderstanding of the material to be furnished, the work to be done, or for any defects in the final product that are the result of the absence of pre-inspection of a site. *This may be incorporated into the pre-bid conference.*

##### **2. Insurance**

The Contractor shall have and maintain liability insurance that is in force until the work is completed and accepted by the Owner. The Contractor shall furnish, to the Owner, a certificate of insurance, within two weeks of notice to the Contractor of the acceptance of the bid. Failure to provide this certificate will constitute a breach of the Contract and, at the discretion of the Owner, may result in termination of the Contract.

##### **3. Pre-bid conference**

A pre-bid conference should be scheduled to discuss scope of services, terms of this contract and scheduling of work.

##### **4. Acceptance period**

The Owner shall have up to a maximum of 30 days from date of bid opening to accept an offer. The Contractor's bid price shall hold their bid price for this 30 day period.

##### **5. Notice of acceptance**

The Contractor will be notified in writing by the Owner of the acceptance of the bid in whole, or in part, within five (5) business days of when it has been accepted. Failure to comply with this notice requirement shall constitute a breach of the Contract. A bid cannot be accepted verbally.

##### **6. Right to change or add additional work**

The Owner reserves the right to submit change orders in writing to the Contractor. In that event, the Owner will negotiate with the Contractor to determine the new costs.

##### **7. Clean up**

At the completion of paving, the site shall be left in a neat and clean condition, subject to approval of the Owner's Representative.

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8. Close-out

In the event that any paving is found to be sub-standard or does not meet UFAS requirements, the Contractor shall take whatever remedial action is required to correct the pavement surface at no additional expense to the Owner. Such remedial action may include but is not limited to removal and replacement of the unacceptable pavement.

9. Warranties

The Contractor guarantees that the work to be done under this contract and the materials to be furnished by the supplier for use in the construction of the same will be free from defects or flaws. This warranty shall be for a period of one year from the date of completion.

10. Payment

The Owner shall make payment in full after completion, inspection and acceptance.

Owner's Rep:

Date:

Contractor' Rep

Date:

Rural Development

Date:

\* This guide is meant only to assist in providing minimum standards for acquiring prices for reserve request contracts, it is not meant to be all inclusive and RD shall accept no responsibility for any errors or omissions in the work.

MDOT: Maine Department of Transportation