

Key Factors for Success Checklist

Some of the key design and construction factors that are important to the success of diamond grinding are shown below.

Note that some specifications described in the following content may not be the same as the specifications followed by your agency. Always check with your State agency's standards and specifications when using these guidelines.

Sections

- **Pre-construction**
- **During Construction**
- **Post Construction**

Pre-construction

Selection of Proper Candidate Projects

- The first key to success is to select good candidate projects
- Diamond grinding is applicable for pavement that have roughness but are also structurally sound

Proper Design (blade spacing, transverse slope, and project layout)

- The surface characteristics of the pavement after grinding are highly dependent on the blade spacing, which in turn is highly dependent on the hardness of the aggregate
- Diamond grinding can affect transverse slope, which is important to surface drainage
- Project layout refers to items such as grinding limits and transitions

During Construction

- Conduct Grinding Parallel to the Centerline**
 - Verify that the diamond grinding operation is conducted parallel to the pavement centerline
- Check That Overlaps are Within Tolerances**
 - Verify that each application of the diamond-ground texture overlaps the previous application by no more than the amount designated in the contract documents, typically 1 in.
- Monitor Grinding Depth**
 - Verify that the proper amount of concrete is being removed

Post Construction

- Verify That End Product Meets Specifications**
 - Perform post-grinding testing to ensure that specifications are met and to document improvements