



Uniform Paving Platform A Contractor's Perspective

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Concerns for the Paving Contractor



- **Safety – Plant and Field – Safety is the #1 Priority**
- **Mix Production – Consistent and Within Spec**
- **Mix Placement**
- **Compaction**
- **Density**
- **Ride Quality**
- **Profitability**

Which Concerns Are Tied to the Paving Platform?



- Safety – Plant and Field
- Mix Production – Consistent and Within Spec
- **Mix Placement**
- **Compaction**
- **Density**
- **Ride Quality**
- **Profitability**

Mix Placement



■ Distressed Pavement



Mix Placement



- Distressed Pavement

- **Distortions**



Mix Placement



- Distressed Pavement
- Distortions
- **Peeling Surfaces**



Mix Placement



- Distressed Pavement
- Distortions
- Peeling Surfaces
- **Rutting**



Mix Placement



- Distressed Pavement
- Distortions
- Peeling Surfaces
- Rutting
- **Scabbing**



Compaction



■ Non-Uniformity Impacts

■ Roller Patterns



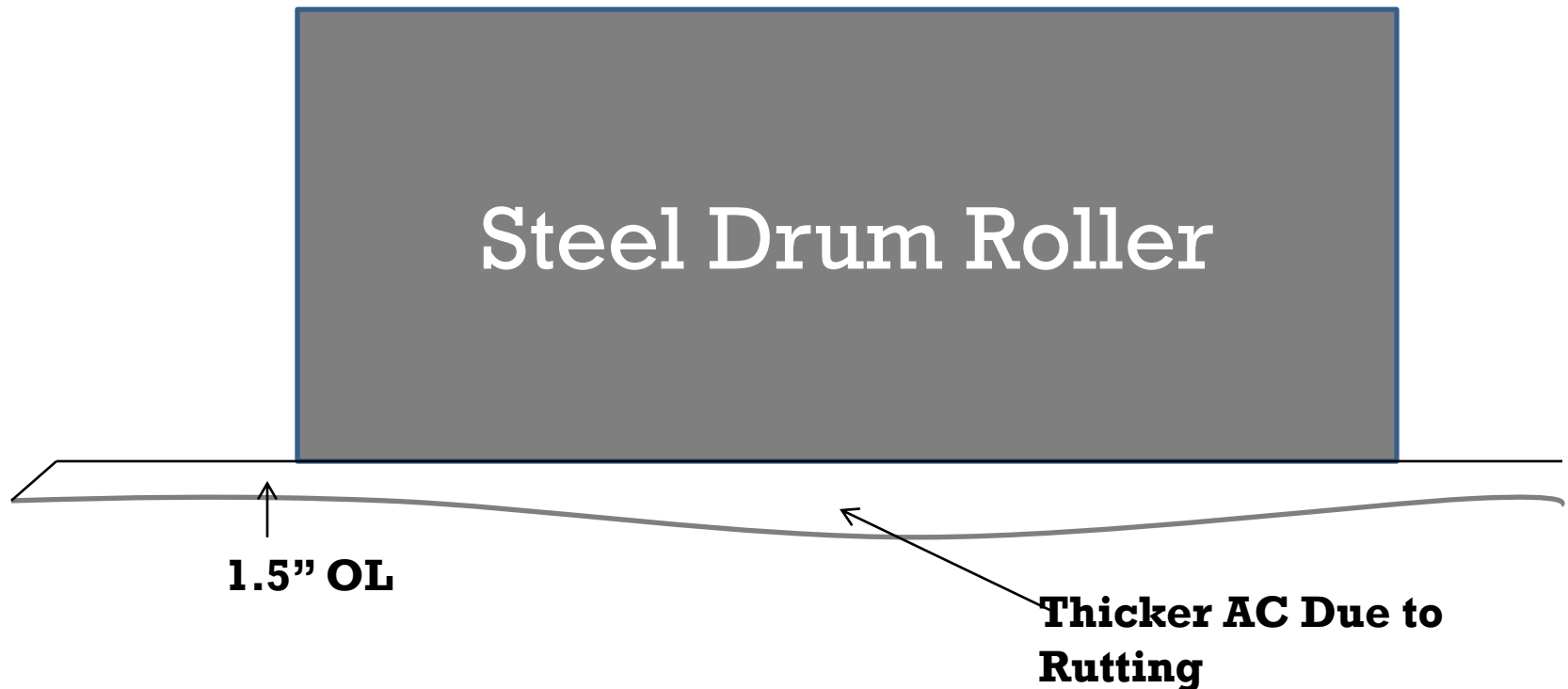
Compaction



■ Non-Uniformity Impacts

■ Roller Patterns

■ Compression by Drum with Rutting



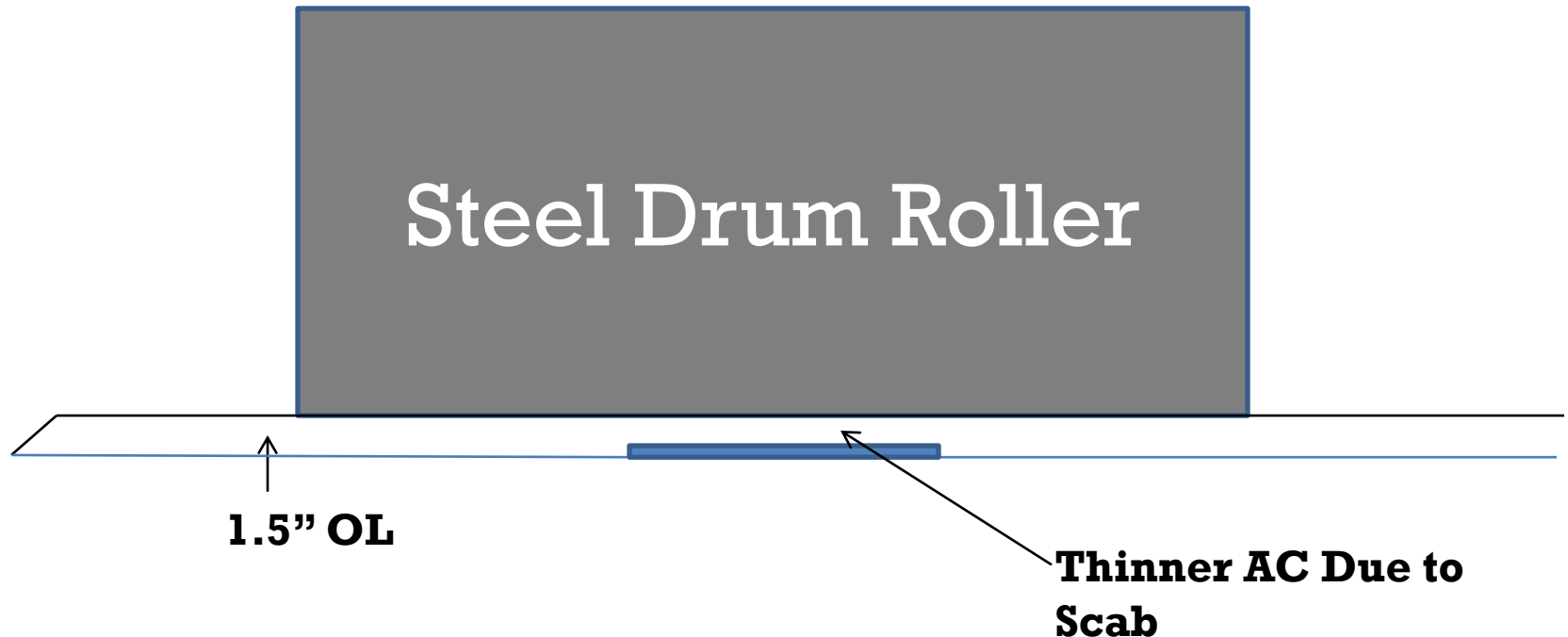
Compaction



■ Non-Uniformity Impacts

■ Roller Patterns

■ Compression by Drum with Scabbing





- **Target density established in control strip with uniform section**
 - **Weak areas with same roller pattern will have lower density**
 - **Thick or thinner sections due to rutting/scabbing will impact density**
 - **Scabs make break loose under rolling and impact density**

Ride Quality



- **Initial ride quality may be acceptable**
- **Over time, rubber tired rollers (vehicle's tires) will complete compaction and distort the surface and lead to a poor ride**





- **Pay factors based on:**

- **In-place density testing**

- **Final ride quality/improvement – Rideability Test**

Achieving a Uniform Platform



- **Leveling courses for roads not milled**
 - **Variable depth lift**
 - **Fills ruts**
 - **Assists in returning cross section to pavements**



Achieving a Uniform Platform



- Leveling courses for roads not milled
- Milled roads with scabbing
 - Re-mill to remove scabs



Achieving a Uniform Platform



- Leveling courses for roads not milled
- Milled roads with scabbing
 - Re-mill to remove scabs (best approach)
 - Scratch course over scabs (alternate approach)

Win-Win-Win Solutions



■ Wins for VDOT

- Longer service life for surfaces
- Lower life cycle costs

■ Wins for Contractor

- Increased profit potential
- Optimized paving operations

■ Wins for the Traveling Public

- Smoother pavements
- Longer lasting pavements
- Lower vehicle operating costs
- Fewer traffic disruptions (i.e., MOT)