

**Pavement**

**Profile and Alignment**

Place the proposed pavement to follow the alignment of the existing pavement. Previous construction plans showing the original alignment are available for inspection at the ODOT District 12 office. Place the proposed asphalt concrete as shown on the typical sections. The intent of the plans is to maintain the existing profile.

**Planing Requirements**

The duration of time between planing the asphalt and placing the surface course shall be kept to a minimum. In no instance shall this time exceed 10 calendar days. The time limit shall begin on the first day of planing, and shall continue based on calendar days, minus any bad weather days, until completion of the asphalt concrete surface course. This is to ensure that the potential degradation of the exposed pavement due to traffic is kept to a minimum.

In the event that the time between exposing the existing pavement and placing the asphalt surface course exceeds 10 calendar days, liquidated damages as per 108.07 of the C&MS shall be assessed.

**Asphalt Concrete Surface Course Sealing Requirements**

In addition to the gutter sealing requirements specified on SCD BP-3.1 and in CMS 401.15, after completion of the surface course, the Contractor shall use a certified 702.01 PG binder to seal the following locations:

- All castings, including but not limited to: monuments, manholes, water valves, catch basins, curb inlets.
- Butt joints and feather joints including bridge approaches.
- Forward joint for driveway asphalt and trailing joint when butting to existing asphalt drive.
- Perimeter of all pavement repairs or other asphalt inlays when pavement repairs/inlays are not overlaid with an asphalt concrete surface course.
- All cold longitudinal joints between paved shoulders and guardrail asphalt.

The width of the sealer shall be 2 to 3 inches.

Any additional costs associated with the work identified in this note shall be included in the appropriate asphalt concrete surface course item of work.

**Item 251 – Partial Depth Pavement Repair (441), As per Plan**

This item shall be used to repair unsound, cold patch, or pop-out areas of longitudinal and transverse joints as directed by the Engineer. This work shall be performed after to the planing operation. The depth of the repair shall be 3” below the top of the existing asphalt surface. The width of the repair shall be 12” centered over the existing joint.

Use replacement materials conforming to the requirements of Item 441, Type 2.

The following estimated quantity has been carried to the General Summary:

Item 251 – Partial Depth Pavement Repair.....**1,600 SY**

**Item 253 – Pavement Repair**

This work item is for use as directed by the Engineer for the purpose of pavement repair. All labor and material necessary to perform this work and section 250 of the CMS shall be included for payment under Item 253.

Depth of pavement repair removal shall typically be 5” measured after the pavement has been planed. The depth of repair shall be as directed by the Engineer if unsound material is encountered after the removal of the 5”.

Use replacement materials conforming to the requirements of Item 301.

The following item has been carried to the General Summary for use as directed by the Engineer:

Item 253 – Pavement Repair..... **560 CY**

**Item 254 – Pavement Planing, Asphalt Concrete, As Per Plan**

This item shall be used to remove the existing asphalt overlay full width at an average depth of 1-1/2” and 2-1/2” as specified in the plans. Areas which have transverse wedges (butt joints) are to be removed in two passes as required for maintaining traffic. No additional payment shall be made for the second pass.

**Item 441 – Asphalt Concrete Surface Course, Type 1, (446), As Per Plan**

The coarse virgin aggregate for this item shall consist of a blend of 60% min. air cooled blast furnace slag (ACBFS) or Trap Rock from Ontario with limestone comprising the remaining percentage.

Use a PG70-22M binder for this item.

Additional requirements for IDEAL-CT:

Follow all requirements of the specifications with the addition of the following:

Perform the IDEAL-CT for the mix design submittal per Supplement 1033 on the JMF asphalt binder content determined from the design air voids and ensure the minimum in the table below is met for the mix type. The IDEAL-CT only needs to be ran for mix design acceptance.

Provide results per Supplement 1033 with the mix design. Supply six gyratory compacted specimens to the height mentioned in Supplement 1033 for the mix type specified. Allow more than two weeks for mix design review and preliminary approval due to OMM verifying the mix.

Mix Type	Minimum CTindex
Item 442 (Superpave) 9.5 mm	80
Item 442 (Superpave) 12.5 mm (Surface)	80
Item 442 (Superpave) 12.5 mm (Intermediate)	70
Item 442 (Superpave) 19 mm (Intermediate)	60
Item 441 (Marshall) Type 1 Surface Mixes	80
Item 441 (Marshall) Type 1 Intermediate Mixes	80
Item 441 (Marshall) Type 2 Intermediate Mixes	60
Item 302 (Marshall) Mixes	60

**Item – 441 Asphalt Concrete Intermediate Course, Type 1, (448), As Per Plan, PG64-22**

Requirements for IDEAL-CT:

Follow all requirements of the specifications with the addition of the following:

Perform the IDEAL-CT for the mix design submittal per Supplement 1033 on the JMF asphalt binder content determined from the design air voids and ensure the minimum in the table below is met for the mix type. The IDEAL-CT only needs to be ran for mix design acceptance.

Provide results per Supplement 1033 with the mix design. Supply six gyratory compacted specimens to the height mentioned in Supplement 1033 for the mix type specified. Allow more than two weeks for mix design review and preliminary approval due to OMM verifying the mix.

Mix Type	Minimum CTindex
Item 442 (Superpave) 9.5 mm	80
Item 442 (Superpave) 12.5 mm (Surface)	80
Item 442 (Superpave) 12.5 mm (Intermediate)	70
Item 442 (Superpave) 19 mm (Intermediate)	60
Item 441 (Marshall) Type 1 Surface Mixes	80
Item 441 (Marshall) Type 1 Intermediate Mixes	80
Item 441 (Marshall) Type 2 Intermediate Mixes	60
Item 302 (Marshall) Mixes	60

**Item 617 – Compacted Aggregate, As Per Plan**

This item is a contingency that shall be used as directed by the Engineer to fill any remaining low areas after Item 209 – Linear Grading, As Per Plan, has been completed. Material shall be limited to reclaimed asphalt concrete pavement.

The actual depth used will vary depending upon existing conditions. For estimating purposes, an average depth of one inch (1.0”) at one foot width will be used. Water, if needed, shall be applied as per 617.05 and included for payment under Item 617 – Compacted Aggregate, As Per Plan.

