

600's – Bases

Section 00610 – Reconditioning Existing Roadway

This work consists of reconditioning and preparing existing subgrades, bases, surfacings and pavements on which an additional layer or course of material is to be placed. The work includes existing shoulders, cut ditches, road connections, approach roads, ramps bridge decks if not provided for elsewhere, and other roadbed areas on which construction work under the contract is to be performed.

Quality

Unless required differently in the specifications, no quality documentation is required for this work. If no quality documentation is required, record pertinent information in the [General Daily Progress Report \(form 734-3474\)](#).

Construction

- Removal and replacement of unsuitable materials -- ensure that:
 - The Contractor removes all unstable materials in the subgrade, subbase, base, surfacing or pavement areas as directed and disposes the materials according to the specifications.
 - The Contractor replaces the removed materials with materials furnished for other purposes under the contract.
- Ditches and subgrades -- ensure that:
 - The Contractor cleans, trims, and restores existing cut ditches to designated cross section and condition.
 - The Contractor reshapes, waters, processes, prepares, and compacts the existing subgrade to the lines, grades, slopes, and cross sections established.
- Aggregate subbase, base, and surfacing -- ensure that:
 - The Contractor reshapes, waters, processes, prepares the upper layer of existing surface to the lines, grades, slopes, and cross sections established.
 - The Contractor compacts to the densities required for similar new work.
- Surfacing -- ensure that:

- The Contractor cleans existing surfacings of all loose material, dirt, and dust by an approved method.

Measurement

Unless specified otherwise there will be no measurement of quantities for reconditioning and preparation. Materials used in the replacement of unstable materials according to the specification will be measured in the manner applicable to the pay item for which the materials are furnished. As work is performed document the work with an [Installation Sheet \(form 734-2605\)](#) as a source document to justify payment.

Section 00620 – Cold Plane Pavement Removal

This work consists of removing pavement and surfacing to prepare a foundation for placing new surfacing.

Quality

Unless required differently in the specifications, no quality documentation is required for this work. If no quality documentation is required, record pertinent information in the [General Daily Progress Report \(form 734-3474\)](#).

If the removed materials will be incorporated into the project, ensure that they are not contaminated or mishandled until their use in the final product.

Construction

Ensure that:

- Locations for the work are accurately identified and marked and both the Contractor and Inspector understand the markings.
- Existing catch basins and manholes are marked to avoid damage.
- Line, grade, and cross slope will be accurately controlled, including use of independent grade control if needed.
- The Contractor does not use a heating device with the planing machine.
- The planing machine leaves a smooth edge.
- Planing does not leave a thin portion of a surfacing course that will delaminate or cause further problems. If so, work with the Project Manager to adjust the grade.
- The planed or ground surface is cleaned and loose material is removed.
- Asphalt concrete wedges and appropriate warning signs are installed if planing/grinding is not completed during one shift.

- The Contractor tests the surface tolerance with 12-foot straight edge after planing. The variation of the top of any two ridges and the straight edge shall not exceed the specified value.
- Coordinate with the Project Manager to have sections of loose material within the underlying pavement layer(s), exposed as a result of the cold planing operation, removed. The exposed localized sections would typically be areas of stripped or otherwise failed asphalt concrete. Contractor should repair these sections as directed by the Project Manager prior to allowing traffic on the cold plane surface. Document any repairs on the [General Daily Progress Report \(form 734-3474\)](#) directed by the Project Manager, and refer to any other specific Standard Specification Section that applies.
- After traffic has been allowed to drive on the cold planed surface, check for areas of rutting, raveling, delamination, or cracking caused by traffic in coordination with the Project Manager, prior to paving leveling course. Document any repairs on the [General Daily Progress Report \(form 734-3474\)](#) directed by the Project Manager, and refer to any other specific Standard Specification Section that applies.

Measurement

Measurement for cold plane pavement removal will be by area, unless specified otherwise. As work is performed sketch and calculate the area of cold plane pavement removal completed daily, and submit that calculation with an [Installation Sheet \(form 734-2605\)](#) as a source document to justify payment.

Section 00635 – Grid-Rolled Aggregate Subbase

Section 00640 – Aggregate Base and Shoulders

Section 00641 – Aggregate Subbase, Base and Shoulders

This work consists of furnishing and placing one or more layers of aggregates, on a prepared surface, to specified lines, grades, thicknesses, and cross sections. Sections 00635 and 00641 also require the aggregates to be mixed with water before final placement.

Quality

Unless required differently in the specifications, no quality documentation is required for Section 00640 work. If no quality documentation is required, acceptance is visual by the Project Manager. Record all pertinent information in the [General Daily Progress Report \(form 734-3474\)](#).

Quality requirements for Sections 00635, 00640 and 00641 are in the Standard Specifications and in the [Manual of Field Test Procedures](#) – Field Tested Materials Guide.

Ensure that the Contractor is aware of those requirements, performs testing as required, and provides required quality documentation before the material is incorporated.

For Sections 00635, 00640, and 00641:

- Check that required quality control testing is performed and the material is acceptable, before it is placed
- Check that aggregates are stockpiled in accordance with Section 00680.40 and .41 and non-specification material is removed as required, or is not placed in the stockpile
- Ensure that the ODOT Quality Control Compliance Specialist is aware of the aggregate delivery schedule, and required verification testing is performed

Construction

Ensure that:

- For foundation preparation, prior to placement of base material:
- The work area is laid out and marked and both the Contractor and Inspector understand the markings.
- The underlying surface (normally the subgrade) has been prepared, including:
 - The surface has been trimmed and finished to the specified grades and cross section.
 - That topsoil or other unacceptable debris has been removed.
 - The surface has been compacted and compaction testing has been done, including checking for deflection under movement of a loaded haul vehicle.
 - All areas of inadequate compaction or instability have been repaired and retested.
 - Loose material has been removed.
- For mixing, hauling, and placing:
 - Observe loads for proper size and make-up.
 - Placement should generally begin nearest the source of material supply.
 - Water is mixed with the aggregate as specified.

- If the material is mixed with water after it is delivered to the project, the water is uniformly mixed with the aggregate and the mixing process does not incorporate unacceptable materials into the mixture.
- Material is placed and compacted without delay (this prevents excessive loss of moisture).
- The Contractor maintains the correct moisture content for the material.
- The material does not separate between fines and coarse aggregate, becoming “boney”, especially during final grading under construction traffic prior to paving.
- If geotextile is required between subgrade and base, the first lift of material is placed directly on the fabric without road mixing.
- The material is placed, in uniform layers that do not exceed the specified allowable thickness, and is compacted to specified line and grade.
- Compaction is tested as specified and areas of inadequate compaction are repaired, re-compacted, and retested before placing the next lift.
- The final surface of the material is constructed to the specified elevations, cross section, and smoothness.
- The final surface is not contaminated with soil from construction activities or other source since sampling and testing.
- The Contractor maintains each layer as specified and repairs loose, soft, or rutted areas.
- The Contractor smoothes and finishes the edge areas and slopes.

Measurement

Refer to the specifications for the method of measurement.

If measurement is by weight, ensure that the Contractor has a scale to measure the weight of each load. Ensure that overweight loads are not allowed on the roadway. Refer to Section 00190.20 of the contract and the Weigh Memos and Scale Diary subsection of the [Quantities section \(12-D\) of the Construction Manual](#) for scale certification, scale diary, and check weights. Adjust the weight for excess percentage of water as specified.

Establish a procedure to gather the Weigh Memo – Material Receipt forms for each load incorporated. Calculate the sum of all loads delivered each day and submit that calculation, with the Weigh Memo – Material Receipt forms, as a source document to justify payment.

If measurement is by volume in the haul vehicle, measure each haul vehicle. As work is performed sketch and calculate the volume of material placed daily and submit that

calculation with an [Installation Sheet \(form 734-2605\)](#) as a source document to justify payment.

If measurement is by area, verify that material has been placed to the required depth. As work is performed, sketch and calculate the area of material placed daily and submit that calculation with an [Installation Sheet \(form 734-2605\)](#) as a source document to justify payment.

Section 00680 – Stockpiled Aggregates

This work consists of furnishing crushed rock or other aggregates in stockpiles at the places and in the manner specified.

Quality

Quality requirements are specified and in the [Manual of Field Test Procedures](#) – Field Tested Materials Guide.

Ensure that the Contractor is aware of those requirements, performs the specified testing, and provides copies of the test results.

Check that ODOT performs verification testing as specified.

Ensure that the Contractor removes failing material, as specified, or does not place it in the stockpile.

Construction

Ensure that:

- Stockpile sites are properly marked and are prepared as specified or directed.
- Stockpiles are constructed in lifts, no thicker than specified, and in a manner that minimizes segregation and allows access to remove materials later.
- Hauling vehicles, other equipment, or operations do not contaminate the stockpiled material with mud or other unwanted materials.
- Stockpiles are shaped and finished to allow easy measurement.
- The stockpile areas are cleaned up and restored as specified.

Measurement

Refer to the specifications for the method of measurement.

If measurement is by weight, ensure that the Contractor has a scale to measure the weight of each load. Ensure that overweight loads are not allowed on the roadway. Refer to Section 00190.20 of the contract and the Weigh Memos and Scale Diary subsection of the [Quantities section \(12-D\) of the Construction Manual](#) for scale certification, scale diary, and check weights. Adjust the weight for excess percentage of water as specified.

Establish a procedure to gather the Weigh Memo - Material Receipt forms for each load stockpiled. Calculate the sum of all loads delivered each day and submit that calculation, with the Weigh Memo - Material Receipt forms, as a source document to justify payment.

If measurement is by volume in the stockpile, measure each stockpile and record those measurements. Sketch and calculate stockpile volume using the cross-section measurement of the completed stockpile. Submit that calculation with an [Installation Sheet \(form 734-2605\)](#) as a source document to justify payment.