

# **1000's – Right of Way Development and Control**

## **Section 01030 – Seeding**

This work consists of seeding and associated tasks to develop plant growth for erosion control, environmental mitigation, and roadside development.

### **Quality**

Quality requirements are specified, and in the [Non-Field Tested Materials Acceptance Guide](#).

Check that the Contractor is aware of those requirements, provides samples for testing when required, and provides quality documentation before the material is incorporated.

Gather and submit required quality documentation.

### **Materials**

Refer to specs for requirements for Topsoil, Soil Conditioners, Amendments, and Bio-Amendments.

Availability and source for all specified seed will be provided by Contractor within 60 days of execution of the Contract.

### **For Seeding**

Ensure:

- Seed will be delivered in sealed containers and labeled, particularly for species, location obtained, weight of each species, presence of Noxious Weeds, percent germination and date of testing, and other items.
- Must be tested within 18 months of delivery to site.
- Seed must be plump, not sprouted, not moldy or otherwise damaged.
- Each lot of seed is subject to inspection when delivered.

### For Fertilizers

Ensure:

- Fertilizer must be labeled for NPK and be appropriate for area of use (West / East of Cascades).
- Low Phosphorous only near sensitive areas.

### For Mulches and Tackifiers

Ensure:

- Mulch and tackifiers must be free of all weed or plant seeds, and all substances detrimental to plant life.
- If straw is used it must be of good quality and certified free of noxious weed seeds or plant parts.

### For Pesticides

The use of pesticides must be approved prior to application. Pesticides may be excluded from Sensitive Areas by ODOT.

## **Labor**

The Weed Control Coordinator certification must be submitted at the pre-construction conference.

A pesticide license must be held by all applicators.

## **Construction**

Site must be properly prepared before seeding (multiple options, depending upon specific area to be seeded) according to the Special Provisions and Standard Specifications. Retain existing vegetation as much as possible. Remove all non-approved, target and noxious weed plants.

Contractor must provide soil samples to a certified lab for testing and analysis of nutrient composition. Expect a report from the lab recommending conditioners, amendments and soil bio-amendments to bring soil to healthy medium for seeding. Incorporate into seeding operation.

When specified, ensure that the Contractor:

- Presents a Weed Control Work Plan at the pre-construction conference, including name of coordinator, specific weeds for control mapped on plan sheets (includes disposal sites), methods and schedule for actions.
- Inspects prior to beginning removal or construction activities and at least monthly.
- Disposes of weeds at approved offsite facility and documents each disposed load.
- Keeps the Weed Management Area weed free during active project.
- Uses only hand methods within 50 feet of Sensitive Areas.
- Notifies Agency not less than 24 hrs prior to seeding. Seeding must be done in mild temperature, no wind; soils must be tillable.

Temporarily seed areas which are not at finished grade but will not be disturbed for 2 months or longer. Include all soil amendments necessary to achieve target coverage within next permanent seeding window (locale specific).

Permanently seed areas within the specified windows for the locale, unless otherwise approved by the Agency. Target coverage must be achieved, otherwise re-seed and fertilize.

Several alternatives exist for applying seed, amendments, tracer and mulch, refer to project Special Provisions. Protect structures, objects, vehicles, people, and vegetation to remain from drift of material.

## **Maintenance**

Coverage must be achieved per specifications and be uniform, healthy and weed free.

The establishment period for erosion control begins upon initial acceptance of the work and ends when coverage achieved.

The establishment period for all other permanent seeding ends 45 days after initial acceptance, providing coverage and other establishment responsibilities have been met. If establishment responsibilities have not been met (seeding construction was completed and accepted outside the permanent seeding dates) then the establishment period ends 45 calendar days after reseeding is completed and accepted during the following seeding season.

Establishment activities include protection from damage, fertilizing and watering, weed control, mowing and repair / restoration of damaged areas.

## Finish and Clean-up

Remove all weeds, trash, debris, stones and dispose of appropriately. Ensure all documentation and disposal receipt tickets are gathered and accounted for.

## Measurement and Payment

Measure work, as specified, on an actual count (Unit Basis) or by surface area (Area Basis). As work is performed take measurements, or ensure that they are taken, and prepare and submit the measurements on an [Installation Sheet \(form 734-2605\)](#) as a source document to justify payment.

Payment will be paid for at the contract unit price, with no separate or additional payment for mobilization for blowers or spreaders, inspections or maintenance, or seeding mobilization if not included in Contract Schedule of Items. Partial Payments will be made for permanent seeding as follows: completion of seeding – 70%; completion of establishment period – 30%.

## Section 01040 – Planting

This work consists of planting and associated work.

### Quality

Quality requirements are specified, in the [Qualified Products List](#), and in the [Non-Field Tested Materials Acceptance Guide](#).

Ensure that the Contractor:

- Submits soil samples for testing to a certified lab. The lab will prepare a report of conditioners, amendments and bio-amendments to be added.
- Provides fertilizers that are labeled for NPK and are appropriate for the area of use. Low Phosphorous only near sensitive areas.
- Provides plants that are named by species.
- Provides plants that are free from disease and pests.
- Provides plant protection from extreme weather conditions.
- Provides plants that have a state inspection certificate for each load. Verify the delivered plants with the Project Special Provisions.
- Provides mulch and tackifiers that are free of weeds and plant seeds. If straw is used, it must be certified free of noxious weed seeds or plant parts.
- Has prior approval before the application of herbicides.

Gather and submit required quality documentation.

## **Construction**

Ensure that:

- Site is prepared per the Specifications before the planting begins.
- If working in wetlands, excavate wetland mitigation area first. Prepare sub-soil per Standard Specifications and Project Special Provisions.
- Incorporated plants are not wilted, dying or dead. As possible, inspect and reject plants before they are offloaded from the delivery truck.
- Fertilizers are incorporated per the soil report and at a rate per Specifications.
- Planting pits are approximately two (2) times the diameter of the root ball and the same depth of the root ball.
- The root systems are spread out in the pit. Balled and burlapped plants may have burlap left in place. If burlap is left in place, remove twine and fold top half of burlap down.
- The backfill is topsoil and additives.
- The backfill is watered after placement.
- Construction materials are removed at the end of each working shift.
- The Contractor cleans all pavement surfaces of debris.

Plant Establishment Period:

- The plant establishment period begins when all original planting is complete.
- Plant establishment work consists of water, weeding, adjustment of stakes and guys, control pests, removal of dead and dying plants, replacing missing plants, and re-mulching as needed.
- Ensure the Contractor removes all plants that have wilted, are dead or dying, and do not meet Specifications.
- Ensure the Contractor replaces all the plants that have been removed for the previous reasons with healthy plants.
- Inspect jointly with the Contractor in spring, summer, and fall. Corrective work must occur within 15 calendar days after receiving written notice of the work to be conducted.
- Ensure the Contractor notifies the Agency when complete.

Ensure that:

- The Contractor submits the Planting Work Plan as specified.
- Areas or locations to be planted are accurately located and marked, and both the Contractor and Inspector understand the markings. Also, plantings are not located in areas or locations that are not conducive to their growth, including areas that are wet, have insufficient soil, or where trees will be under overhead utility lines.
- The Contractor has ensured that all utilities in the affected area have been identified and located.
- Required irrigation facilities have been installed prior to planting.
- The Contractor is aware of and protects vegetation that is to remain, as specified.
- The affected areas are shaped, cleaned, repaired, and finished as needed and the Contractor disposes of unwanted material.

## Measurement

Refer to the specifications for the method of measurement. Measurement will be by one of the following methods, unless specified otherwise:

If measurement is by the unit basis, count each location where the unit is completed. Sketch and calculate the number of units completed daily and submit that calculation with an [Installation Sheet \(form 734-2605\)](#) as a source document to justify payment.

If measurement is by area, as work is performed, sketch and calculate the area completed daily and submit that calculation with an [Installation Sheet \(form 734-2605\)](#) as a source document to justify payment.

If measurement is by volume in the haul vehicle, measure each haul vehicle and record those measurements. If measurement is by volume on an in-place basis, ensure that material is placed to the specified depth throughout the specified area by performing spot checks for depth. Take measurements to calculate the area covered and the resulting volume. Do not include areas where material was placed contrary to the specifications. 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 length, measure and record the length of material installed. As work is performed, sketch and total the length of material installed daily and submit that calculation with an [Installation Sheet \(form 734-2605\)](#) as a source document to justify payment.

## Section 01050 – Fences

This work consists of constructing fences, gates and gateways.

### Quality

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

Check that:

- The Contractor is aware of the required quality documentation, performs sampling and testing as required, and provides quality documentation before the material is incorporated.
- The Contractor submits samples of materials, as specified, to the ODOT Materials Laboratory for testing. If materials fail to meet specified requirements notify the Project Manager.

Inspect all wood materials for checking or other damage. Reject material not in compliance with the specifications.

If unacceptable material is delivered to the project, mark it in such a manner that it is not damaged and the Contractor can return it to the supplier or use it on other projects where the quality is acceptable.

Gather and submit required quality documentation.

### Construction

Ensure that:

- The surveyor has located and marked the fence construction (normally 1 foot inside and parallel to Right of Way lines), including gates and gateways, both the Contractor and Inspector understand the markings.
- The fence location varies, as specified and directed, to preserve trees and geographic features.
- The location of fence posts, corner posts, and bracing do not conflict with or disturb required survey markers.
- The Contractor has identified buried facilities and has had utilities and others locate and mark their buried facilities, as appropriate.
- The adjacent property owners are aware of fencing activities.

- The Contractor has coordinated fencing activities to prevent livestock from leaving their enclosures.
- All ground disturbance, outside of ODOT Right of Way, is minimized and is repaired.
- All vegetation and other debris is removed from the fence line area.
- All specified grading, to allow fence construction to specified line and grade, is performed.
- Footings are excavated to specified dimensions, and backfill or concrete is placed and constructed as specified.
- Where rock is present, footings and post installations are constructed as specified.
- Posts are installed, as specified, to allow the fence to be placed on the specified side of each post.
- All damage to posts or other materials is repaired or the material is replaced.
- The fence fabric is installed and secured as specified.
- Corners, connections of fence sections, and connections to structures or existing facilities do not have gaps exceeding specified limits.
- The fence is electrically grounded as specified.
- Gates and gateways operate as specified.
- The Contractor cleans up and disposes of unwanted material.
- The affected area is smoothed and shaped.

## Measurement

Refer to the specifications for the method of measurement. Measurement will be by one of the following methods, unless specified otherwise:

If measurement is by the unit basis, count each location where the unit is completed. Sketch and calculate the number of units completed daily and submit that calculation with an [Installation Sheet \(form 734-2605\)](#) as a source document to justify payment.

If measurement is by length, measure and record the length of material installed. As work is performed, sketch and total the length of material installed daily and submit that calculation with an [Installation Sheet \(form 734-2605\)](#) as a source document to justify payment.

## Section 01070 – Mailbox Supports

This work consists of removing and maintaining mailboxes and supports at temporary locations during construction, and installing mailboxes and newspaper boxes affected by construction on the new supports.

### Quality

Quality requirements are specified, in the [Qualified Products List](#), in the [Non-Field Tested Materials Acceptance Guide](#), and in the [Manual of Field Test Procedures –Field Tested Materials Guide](#).

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

Gather and submit required quality documentation.

### Construction

Ensure that:

- Delivery personnel have functional access to the mailboxes and newspaper boxes at all times during the project.
- As applicable, mailboxes and newspaper boxes are installed on specified temporary supports until placed on permanent supports.
- Locations of the permanent supports are marked and located, are acceptable to the U.S. Postal Service or other delivery persons, and both the Contractor and Inspector understand all location markings.
- Supports are installed or constructed as specified in the plans or manufacturer's instructions.
- Mounting brackets are of the size and location to allow installation of each box as specified.
- All damage is repaired as specified.
- The Contractor cleans up and disposes of unwanted material.
- The affected area is smoothed and finished.

**Measurement**

Unless specified otherwise, measurement is by the unit basis. Count each location where the unit is completed. Sketch and calculate the number of units completed daily and submit that calculation with an [Installation Sheet \(form 734-2605\)](#) as a source document to justify payment.