

**REVISION OF SECTION 214  
PLANTING (LANDSCAPING)**

**GENERAL**

**214.01 SUMMARY:**

Section Includes:

Landscape development work as shown on the drawings and in schedules.

Related Sections:

Section 623 – Irrigation System

**214.02 SUBMITTALS:**

Maintenance Instructions:

Submit 2 copies of typewritten instructions recommending procedures to be established by the Owner for the maintenance of landscape work for one full year. Submit prior to completion of planting for review by Landscape Architect.

**214.03 QUALITY ASSURANCE:**

Work of this Section shall be performed by a single firm specializing in landscape work having not less than 5 years successful experience in landscape projects of similar scope to this one.

Source Quality Control:

Ship landscape materials with certificates of inspection as required by governmental authorities. Comply with governing regulations applicable to landscape materials.

Trees, Shrubs and Grasses: Provide trees, shrubs and grasses grown in a local Colorado nursery in accordance with good horticultural practice. Provide healthy, vigorous stock grown under climatic conditions similar to conditions in the locality of the project and free of disease, insects, eggs, larvae, and defects such as knots, sun-scald, injuries, abrasions, or disfigurement.

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Plant Material Inspection:

Landscape Architect and City of Glenwood Springs shall inspect plant materials when delivered to project site. Damaged, diseased or defective plant material will be rejected and shall be removed from project site. Rejected plant material will be replaced, at the expense of the Contractor, with healthy, vigorous stock.

**214.04 PROJECT / SITE CONDITIONS:**

Utilities: Determine, based on Owner's site survey and Project Record Documents, location of underground utilities and perform work in a manner which will avoid possible damage. Prior to commencement of landscape work, Landscape Contractor shall contact affected utility companies and request locations of utilities.

Excavation: When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstruction, notify Landscape Architect before planting.

Coordinate with landscape irrigation system work. Exercise special care to avoid damage to irrigation system.

Plant trees, shrubs and grasses during normal seasons for such work in location of project.

**214.05 WARRANTY:**

Warrant trees, shrubs and grasses for a period of one (1) year after date of acceptance, against defects including death and unsatisfactory growth, except for defects resulting from neglect by Owner, abuse or damage by others, or unusual phenomena or incidents which are beyond landscape installer's control. Replace at optimum planting time.

**PRODUCTS**

**214.06 TOPSOIL:**

Provide new topsoil which is fertile, friable, natural loam, surface soil, reasonably free of subsoil, clay lumps, brush, weeds and other litter, and free of stumps, rocks, gravel, roadbase and other extraneous or toxic matter harmful to plant growth.

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Plant Backfill:

For backfill at trees and shrubs, use a soil mixture containing one (1) part compost to four and one half (4.5) parts topsoil.

Soil Amendments:

Compost: Provide compost from local nursery.

**214.07 PLANT MATERIALS:**

Provide plant materials true to name and variety established by the American Joint Committee on Horticultural Nomenclature "Standardized Plant Names", Second Edition, 1942.

Quality: Provide trees, shrubs, and other plants complying with the recommendations and requirements of ANSI Z60.1 "Standard for Nursery Stock" and of not less than indicated sizes, balled and burlapped or container grown, unless otherwise indicated of specified.

Deciduous Shrubs: Provide shrubs of the height shown or listed and with not less than the minimum number of canes required by ANSI Z60.1 for the type and height of shrub required.

**EXECUTION**

**214.08 PREPARATION:**

Layout individual tree and shrub locations and areas for multiple plantings. Stake locations and outline areas and secure Landscape Architect's and City of Glenwood Springs acceptance before start of planting work. Make minor adjustments as may be requested.

Before mixing, clean topsoil of roots, plants, sod, stones, clay lumps and other extraneous materials harmful or toxic to plant growth.

Mix soil amendments at rates specified.

Mix soil amendments by suitable means to assure complete mixing and uniform texture using proportions for each use.

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Preparation for Other Plantings:

For pit and trench type plant backfill, mix soil and soil amendments prior to backfilling, and stockpile at the site.

Excavation for Trees, Shrubs, Grasses and Perennials:

Excavate pits and trenches with vertical sides and with bottom of excavation slightly raised at center to provide property drainage. Loosen subsoil in bottom of excavation.

For balled and burlap or container grown stock, excavate as specified on the drawings.

Dispose of unacceptable subsoil removed from landscape excavations.

Where rubble fill is encountered, prepare planting pits properly by removal of rubble or other acceptable methods.

Use prepared plant backfill mix for setting and filling all plants. Allow a 3" settling layer of planting soil mixture.

**214.09 PLANTING:**

Planting Trees and Shrubs:

Set balled and burlap (B&B) stock on layer of compacted planting soil mixture, plumb and in center of pit or trench with top of ball 2" above adjacent finish landscape grades and no deeper than it was in the nursery. When set, place additional backfill mixture and eliminate voids and air pockets. When excavation is 2/3 full, water thoroughly before placing remainder of backfill. Repeat watering until no more is absorbed. Water again after placing final layer of backfill.

Remove wire basket and burlap from sides of balls; retain on bottom.

Planting Container Grown Stock:

Set container grown stock as specified for balled and burlapped except remove from container. Do not damage root balls.

Dish top of backfill to allow for mulching.

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Mulch pits, trenches and planted areas with specified mulch. Finish level with adjacent grades.

Pruning:

Remove dead wood and branches from trees and shrubs in accordance with standard horticultural practice.

**214.10 MAINTENANCE:**

Begin maintenance immediately after planting. Maintain trees, shrubs and other plants until final acceptance but in no case less than 30 days after substantial completion of planting. Restore planting saucers. Maintain moisture depth to ensure vigorous growth.

**214.11 CLEANUP AND PROTECTION:**

During landscape work, store materials and equipment where directed.

Protect landscape work and materials from damage due to landscape operations, operations by other contractors and trades and trespassers. Maintain protection during installation and maintenance periods. Treat, repair or replace damaged landscape work as directed.

**214.12 INSPECTION AND ACCEPTANCE:**

When landscape work is completed, including maintenance, the Landscape Architect and the City of Glenwood Springs will make an inspection to determine acceptability.

Where inspected landscape work does not comply with the requirements, replace rejected work and continue specified maintenance until re-inspected by the Landscape Architect and the City of Glenwood Springs and found to be acceptable. Remove rejected materials promptly from the project site.

Replace warranty items at one time and within 10 working days of notification.

**END OF SECTION**