

SP5800000FA LANDSCAPING
INTERNAL/INDUSTRY REVIEW COMMENTS

Jason Russell
(850) 414-4010

Comments: (Internal, 05-22-17)

SP5800000FA
All Federal Aid Jobs with Landscaping. Use when requesting by the DDE.

LANDSCAPING
(REV) (4-26-17)

- The following new Section is added after Section 571:
- SECTION 580
LANDSCAPING**
- 580-1 Description**
 - Install landscaping as indicated in the Contract Documents.
- 580-2 Materials**
 - 580-2.1 Plants**
 - 580-2.1.1 Sizes:** Small plants includes all ground covers, shrubs to less than 7½gallon, trees to less than 7½gallon, clustering type palms less than 6foot overall height, cycads to less than 7½gallon, and incidental landscaping.
 - Large plants include shrubs 7½gallon or greater, trees 7½gallon or greater all single trunk palms, and clustering type palms 6foot overall height and greater.
 - 580-2.1.2 Grade Standards and Conformity with Type and Species:** Provide plant materials that comply with all required inspections, grading standards, and plant regulations in accordance with the latest edition of the Florida Department of Agriculture's "Grades and Standards for Nursery Plants."
 - Unless otherwise specified, the minimum grade for plant material is Florida No. 1. Plant materials must be the specified size and grade at the time of delivery to the site.

Comments

- Russell, Jason Inconsistent with rest of sentence.
- Russell, Jason May 15, 2017 "less than" Consider revising: Shrubs less than or shrubs 7-gallons or less.

Response: Revision made as suggested.

- The following new Section is added after Section 571:
- SECTION 580
LANDSCAPING**
- 580-1 Description**
 - Install landscaping as indicated in the Contract Documents.
- 580-2 Materials**
 - 580-2.1 Plants**
 - 580-2.1.1 Sizes:** Small plants includes all ground covers, shrubs to less than 7½gallon, trees to less than 7½gallon, clustering type palms less than 6foot overall height, cycads to less than 7½gallon, and incidental landscaping.
 - Large plants include shrubs 7½gallon or greater, trees 7½gallon or greater, all single trunk palms, and clustering type palms 6foot overall height and greater.
 - 580-2.1.2 Grade Standards and Conformity with Type and Species:** Provide plant materials that comply with all required inspections, grading standards, and plant regulations in accordance with the latest edition of the Florida Department of Agriculture's "Grades and Standards for Nursery Plants."
 - Unless otherwise specified, the minimum grade for plant material is Florida No. 1. Plant materials must be the specified size and grade at the time of delivery to the site.
 - Use only plants that are true to type and species, free of fungal infection and disease, and ensure that the plants not specifically covered by Florida Department of Agriculture's "Grades and Standards for Nursery Plants" conform in type and species with the standards and designations in general acceptance by Florida nurseries. Submit a list of nurseries where plants are tagged, including contact information and location. The Engineer and Contractor may visit the nursery sites to inspect representative samples and lock tag the examined plant material.
 - A minimum of two plants of each species on each shipment must be shipped with tags stating the botanical nomenclature and common name of the plant. Should discrepancies between botanical nomenclature and common name arise, the botanical name will take precedence.

Comments

- Russell, Jason May 15, 2017 How does a contractor know if the plant has a fungus or disease?

Response: Contractors are expected to be experienced, and provide pest free plants. No changes made to spec.

580-1-Description.¶
 → Install landscaping as indicated in the Contract Documents.¶

580-2-Materials.¶
 → 580-2.1-Plants.¶
 → → 580-2.1.1-Sizes: Small plants includes all ground covers, shrubs to less than 7½gallon, trees to less than 7½gallon, clustering type palms less than 6foot overall height, cycads to less than 7½gallon, and incidental landscaping.¶
 → → → Large plants include shrubs 7½gallon or greater, trees 7½gallon or greater, all single trunk palms, and clustering type palms 6foot overall height and greater.¶
 → → 580-2.1.2-Grade Standards and Conformity with Type and Species: Provide plant materials that comply with all required inspections, grading standards, and plant regulations in accordance with the latest edition of the Florida Department of Agriculture's "Grades and Standards for Nursery Plants."¶
 → → → Unless otherwise specified, the minimum grade for plant material is Florida No. 1. Plant materials must be the specified size and grade at the time of delivery to the site.¶
 → → → Use only plants that are true to type and species, free of fungal infection and disease, and ensure that the plants not specifically covered by Florida Department of Agriculture's "Grades and Standards for Nursery Plants" conform in type and species with the standards and designations in general acceptance by Florida nurseries. Submit a list of nurseries where plants are tagged, including contact information and location. The Engineer and Contractor may visit the nursery sites to inspect representative samples and lock tag the exam plant material.¶
 → → → A minimum of two plants of each species on each shipment must be shipped with tags stating the botanical nomenclature and common name of the plant. Should discrepancies between botanical nomenclature and common name arise, the botanical name will take precedence.¶
 → → → Sabal palms (Sabal palmetto) specified as being "Regenerated Palms" shall be minimum Florida No. 1 grade unless noted otherwise. The root ball width shall be, at a minimum, equal to twice the diameter of the trunk as measured at the base. The root balls shall have new, regenerated, round-tipped roots that have emerged from the root initiation zone. Roots shall be whitish-yellow in color, have tapered ends and be present on all sides of the root ball.¶
 → → → To qualify as "Regenerated Palms," sabal palms shall have been placed in containers or be contained within plastic fabric or film material, or approved equal, after field harvesting and during the root regeneration period. Regenerated palms shall have a minimum of three fully expanded new fronds that have not been pruned. Fully expanded new fronds shall meet the minimum requirements for Excellent Leaves, as defined by the glossary of terms in the

Comments

Russell, Jason May 15, 2017

Response: No change made. Using this specification, there have not been disputes about type and species.

→ 580-2.1-Plants.¶
 → → 580-2.1.1-Sizes: Small plants includes all ground covers, shrubs to less than 7½gallon, trees to less than 7½gallon, clustering type palms less than 6foot overall height, cycads to less than 7½gallon, and incidental landscaping.¶
 → → → Large plants include shrubs 7½gallon or greater, trees 7½gallon or greater, all single trunk palms, and clustering type palms 6foot overall height and greater.¶
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Comments

Russell, Jason May 15, 2017
 Is this part of the FL No. 1 requirements?¶

Russell, Jason
 Subjective.¶

Response: This paragraph has been deleted.

→ **580-2.1 Plants:**

→ → **580-2.1.1 Sizes:** Small plants include all ground covers, shrubs to less than 7 gallon, trees to less than 7 gallon, clustering type palms less than 6 foot overall height, cycads to less than 7 gallon, and incidental landscaping.

→ → → Large plants include shrubs 7 gallon or greater, trees 7 gallon or greater, all single trunk palms, and clustering type palms 6 foot overall height and greater.

→ → **580-2.1.2 Grade Standards and Conformity with Type and Species:** Provide plant materials that comply with all required inspections, grading standards, and plant regulations in accordance with the latest edition of the Florida Department of Agriculture's "Grades and Standards for Nursery Plants."

→ → → Unless otherwise specified, the minimum grade for plant material is Florida No. 1. Plant materials must be the specified size and grade at the time of delivery to the site.

→ → → Use only plants that are true to type and species, free of fungal infection and disease, and ensure that the plants not specifically covered by Florida Department of Agriculture's "Grades and Standards for Nursery Plants" conform in type and species with the standards and designations in general acceptance by Florida nurseries. Submit a list of nurseries where plants are tagged, including contact information and location. The Engineer and Contractor may visit the nursery sites to inspect representative samples and lock tag the example plant material.

→ → → A minimum of two plants of each species on each shipment must be shipped with tags stating the botanical nomenclature and common name of the plant. Should discrepancies between botanical nomenclature and common name arise, the botanical name will take precedence.

→ → → Sabal palms (Sabal palmetto) specified as being "Regenerated Palms" shall be minimum Florida No. 1 grade unless noted otherwise. The root ball width shall be, at a minimum, equal to twice the diameter of the trunk as measured at the base. The root balls shall have new, regenerated, round-tipped roots that have emerged from the root initiation zone. Roots shall be whitish-yellow in color, have tapered ends and be present on all sides of the root ball.

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Comments

Russell, Jason May 15, 2017
Is this part of FL No. 1 Requirements?

Response: This paragraph has been deleted.

SP580000FA

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latest edition of the Florida Department of Agriculture and Consumer Services Grades and Standards for Nursery Plants—Palms and Cycads.

→ → **580-2.1.3 Inspection and Transporting:** Move nursery stock in accordance with all Federal and State regulations. For each shipment provide the required Certificate of Inspection.

→ **580-2.2 Water:** Meet the requirements of Section 983.

→ **580-2.3 Mulching:** Use of cypress mulch is prohibited.

■ **580-3 Worksite Landscape Supervisor.**

→ Provide a Worksite Landscape Supervisor responsible for landscape installation. The Worksite Landscape Supervisor must be a Certified Landscape Technician or Certified Landscape Contractor in accordance with the Florida Nursery Growers and Landscape Association (FNGLA) located at the following URL address: <https://www.fngla.org/certifications/index.aspx>, or a State of Florida Registered Landscape Architect. Provide verification at the pre-work conference.

■ **580-4 Installation.**

→ **580-4.1 Installation Plan:** At pre-work meeting, provide an Installation Plan for review and comment. Specifically describe the methods, activities, materials, and schedule to achieve installation as described in 580-4.

→ **580-4.2 Delivery:** All materials must be available for inspection before installation.

→ **580-4.3 Layout:** The location of plants as shown in the Contract documents are approximate. At no cost to the Department adjust final locations when directed by the Engineer to accommodate unforeseen field conditions or to comply with safety setbacks and requirements. Mark proposed mowing limits, planting beds and individual locations of trees, palms and plants as shown in the Contract Documents for the Engineer's review, prior to excavation or planting.

→ → Make no changes to the layout, materials or any variations of materials from the Contract Documents without the Engineer's approval.

→ **580-4.4 Soil Drainage:** Planting holes and beds must drain sufficiently. Notify the Engineer of drainage or percolation problems before plant installation.

→ **580-4.5 Planting:** Meet the requirements of the Contract Documents.

→ **580-4.6 Maintenance:** Maintain plant material to the equivalent visible structural, quality and health characteristics of Florida No. 1.

→ **580-4.7 Repair and Restoration:** Repair and restore existing areas disturbed by installation or maintenance activities. Where new turf is required to restore and repair disturbed areas, meet the requirements of Section 570.

Comments

Russell, Jason May 15, 2017
Pre-construction?

Response: Agreed.

- Standards for Nursery Plants, Plants and Cycles. ¶
- → **580-2.1.3 Inspection and Transporting:** Move nursery stock in accordance with all Federal and State regulations. For each shipment provide the required Certificate of Inspection. ¶
 - **580-2.2 Water:** Meet the requirements of Section 983. ¶
 - **580-2.3 Mulching:** Use of cypress mulch is prohibited. ¶
- ¶ **580-3 Worksite Landscape Supervisor.** ¶
- Provide a Worksite Landscape Supervisor responsible for landscape installation. The Worksite Landscape Supervisor must be a Certified Landscape Technician or Certified Landscape Contractor in accordance with the Florida Nursery Growers and Landscape Association (FNGLA) located at the following URL address: <https://www.fn gla.org/certifications/index.aspx>, or a State of Florida Registered Landscape Architect. Provide verification at the pre-work conference. ¶
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- **580-4.1 Installation Plan:** At pre-work meeting, provide an Installation Plan for review and comment. Specifically describe the methods, activities, materials, and schedule to achieve installation as described in 580-4. ¶
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 - **580-4.5 Planting:** Meet the requirements of the Contract Documents. ¶
 - **580-4.6 Maintenance:** Maintain plant material to the equivalent visible structural, quality and health characteristics of Florida No. 1. ¶
 - **580-4.7 Repair and Restoration:** Repair and restore existing areas disturbed by installation or maintenance activities. Where new turf is required to restore and repair disturbed areas, meet the requirements of Section 570. ¶
- ¶ **580-5 Disposal of Surplus Materials and Debris.** ¶
- Remove from the jobsite any surplus material unless otherwise directed by the Engineer. Surplus is defined as material not needed after installation of landscaping per Contract Documents. Upon commencement of landscaping installation, remove daily all debris from the landscape locations described in the Contract Documents. ¶
- ¶ **580-6 Method of Measurement.** ¶
- The quantities to be paid for will be the items shown in the Contract Documents, completed and accepted. ¶

Comments

Russell, Jason May 15, 2017
Pre-construction? ¶

Response: Agreed.

- Standards for Nursery Plants, Plants and Cycles. ¶
- → **580-2.1.3 Inspection and Transporting:** Move nursery stock in accordance with all Federal and State regulations. For each shipment provide the required Certificate of Inspection. ¶
 - **580-2.2 Water:** Meet the requirements of Section 983. ¶
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- ¶ **580-6 Method of Measurement.** ¶
- The quantities to be paid for will be the items shown in the Contract Documents, completed and accepted. ¶

Comments

Russell, Jason May 15, 2017
materials or any variations of materials. Redundant? ¶

Response: Agreed.

Provide a worksite Landscape Supervisor responsible for landscape installation. The Worksite Landscape Supervisor must be a Certified Landscape Technician or Certified Landscape Contractor in accordance with the Florida Nursery-Growers and Landscape Association (FNGLA) located at the following URL address: <https://www.fn gla.org/certifications/index.aspx>, or a State of Florida Registered Landscape Architect. Provide verification at the pre-work conference. ¶

580-4 Installation. ¶

→ 580-4.1 Installation Plan: At pre-work meeting, provide an Installation Plan for review and comment. Specifically describe the methods, activities, materials, and schedule to achieve installation as described in 580-4. ¶

→ 580-4.2 Delivery: All materials must be available for inspection before installation. ¶

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→ Make no changes to the layout, materials or any variations of materials from the Contract Documents without the Engineer's approval. ¶

→ 580-4.4 Soil Drainage: Planting holes and beds must drain sufficiently. Notify the Engineer of drainage or percolation problems before plant installation. ¶

→ 580-4.5 Planting: Meet the requirements of the Contract Documents. ¶

→ 580-4.6 Maintenance: Maintain plant material to the equivalent visible structural, quality and health characteristics of Florida No. 1. ¶

→ 580-4.7 Repair and Restoration: Repair and restore existing areas disturbed by installation or maintenance activities. Where new turf is required to restore and repair disturbed areas, meet the requirements of Section 570. ¶

580-5 Disposal of Surplus Materials and Debris. ¶

→ Remove from the jobsite any surplus material unless otherwise directed by the Engineer. Surplus is defined as material not needed after installation of landscaping per Contract Documents. Upon commencement of landscaping installation, remove daily all debris from the landscape locations described in the Contract Documents. ¶

580-6 Method of Measurement. ¶

→ The quantities to be paid for will be the items shown in the Contract Documents, completed and accepted. ¶

Comments

Russell, Jason Indefinitely? ¶

Russell, Jason May 15, 2017 Structural-what? ¶

Response: For the duration of the contract, the contractor is responsible for the trunk and branching structure of the plant. Structure is one of the criteria used for grading a plant.

→ 580-4.2 Delivery: All materials must be available for inspection before installation. ¶

→ 580-4.3 Layout: The location of plants as shown in the Contract documents are approximate. At no cost to the Department adjust final locations when directed by the Engineer to accommodate unforeseen field conditions or to comply with safety setbacks and requirements. Mark proposed mowing limits, planting beds and individual locations of trees, palms and plants as shown in the Contract Documents for the Engineer's review, prior to excavation or planting. ¶

→ Make no changes to the layout, materials or any variations of materials from the Contract Documents without the Engineer's approval. ¶

→ 580-4.4 Soil Drainage: Planting holes and beds must drain sufficiently. Notify the Engineer of drainage or percolation problems before plant installation. ¶

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→ 580-4.7 Repair and Restoration: Repair and restore existing areas disturbed by installation or maintenance activities. Where new turf is required to restore and repair disturbed areas, meet the requirements of Section 570. ¶

580-5 Disposal of Surplus Materials and Debris. ¶

→ Remove from the jobsite any surplus material unless otherwise directed by the Engineer. Surplus is defined as material not needed after installation of landscaping per Contract Documents. Upon commencement of landscaping installation, remove daily all debris from the landscape locations described in the Contract Documents. ¶

580-6 Method of Measurement. ¶

→ The quantities to be paid for will be the items shown in the Contract Documents, completed and accepted. ¶

Comments

Russell, Jason May 15, 2017 landscape ¶

SP580000FA ¶
All Federal Aid Jobs with Landscaping. Use when requesting by the DDE. ¶

580-7 Basis of Payment. ¶

→ Price and payment will be full compensation for all work and materials specified in this Section. ¶

Response: Agreed. See responses after each screen shot.

Ervin Sterling
Ervin.sterling@dot.state.fl.us

Comments: (Industry, 05-31-17)
Article 580-3 Worksite Landscape Supervisor, and Subarticle 580-4.1 Installation Plan:
Recommend "...pre-construction..." rather than "pre-work". Subarticle 580-4.1 Installation Plan:
The reference ("as described in 580-4") is unusual - recommend replacing with "as described in
this Section".

Response: Subarticle 2.1.2 has been deleted. Agree about pre-construction. Agree about
Installation plan.

John J. Nettles
(386) 961-7058
John.nettles@dot.state.fl.us

Comments: (Industry, 05-31-17)
I agree with Jeff, concerning the documentation of the origin of the Landscape plants used on
FDOT Landscape Projects.

Response: Thank you.

Megan Miller
(813)975-4854
Megan.miller@dot.state.fl.us

Comments: (Industry, 05-31-17)
Please check throughout for consistency using "Florida No. 1" as there are some instances where
"No." isn't capitalized. In 580-3 and 580-4.1, please check "pre-work conference" vs. "pre-work
meeting" for consistency. in 580-4.1, suggest revising to "At the pre-work meeting..." (or
conference, as appropriate).

Response: Agreed about consistency and other suggested revisions.

No Name

Comments: (Industry, 05-31-17)
Commenting on behalf of April Blackburn - Chief of Transportation Technology: Page 3,
580.4.3, 2nd paragraph – how will the Engineer’s approval be documented if not in writing?

Response: “in writing” is understood and required throughout all department specifications.

No Name

Comments: (Industry, 06-05-17)
Within 580-2.1.2 - Regarding Regenerated Palms being placed in Containers or be contained
within plastic fabric or film materials, or approved equal. Who approved the "or approved
equal", the Contractor? Engineer? Specifications has always stated not to use "or approved
equal".

Response: Entire paragraph has been removed.

Gus Queadada
(305) 726-5981
gquesada@nmdceng.net

Comments: (Industry, 06-06-17)

I believe the landscape supervisor will be very difficult to attain, I've received many complaints from consultants trying to fill the inspector role because the certification is very difficult to get and I'm sure the contractor will have a similar if not greater problem. what will happen is that they will pay someone on the side to sign the form and maybe show up to one meeting, but they will more than likely not have them to supervise all installation. this will be difficult to control. suggest a certification that can be readily attained or more passive language, like allowing the QC manager or QC technician to provide oversight.

Response: Agreed that the transition to the new requirement can be bumpy. The credential can be attained within a reasonable time period at a reasonable cost. This requirement for a properly credentialed worksite supervisor will be enforced.

Gene Giambra
(813) 975-6110
Eugene.giambra@dot.state.fl.us

Comments: (Industry, 06-13-17)

580.43-21 Delivery: All materials must be available for inspection 24 hours prior to scheduled installation.

Response: This may be considered in future revisions. No change made.

Maria Connolly
(954) 934-1209
Maria.connolly@dot.state.fl.us

Comments: (Industry, 06-22-17)

Section 580-2.1.2 “Sabal palms (Sabal palmetto) specified as being “Regenerated Palms” as shown on the Plant schedules must be minimum Florida no. 1 grade unless noted otherwise.” For consistency change Florida no. 1 to Florida No. 1. Specification 5800000FA does not contain “as shown on the Plant schedules” – not sure that it is necessary in this sentence. Recommend that consistent language be used in both specifications. Recommend changing ““Roots shall be whitish-yellow in color ...” to “Roots must be whitish-yellow in color ...”. Specification 5800000 states “Roots must be whitish-yellow in color ...” – recommend that consistent language be used in both specifications. “Regenerated palms must have a minimum of three fully expanded new fronds that must not been pruned.” Specification 5800000FA states “... that have not been pruned” – recommend that consistent language be used in both specifications. Section 580-2.1.3 Change “...Federal, State, and Rules and Regulations.” to “Federal, State, and Local Rules and Regulations.” Section 580-4.1 Change “At pre-work meeting ...” to “At the pre-work meeting ...” Section 580-4.3 Change “... Contract documents ...” to “... Contract Documents ...” Section 580-4.6 Recommend changing “Maintain plant material to the equivalent visible

structural, quality and health characteristics of Florida No.1.” to “Maintain plant material to the equivalent visible structural, quality and health characteristics of Florida No.1. throughout the installation phase”. It is clear from Section 580-2.1.2 that that plant material must be Florida No. 1 at time of delivery to site. However, it is not clear that it must be maintained at Florida No. 1 from the point when the plant material arrives on site but is not actually planted (may lay around for days/weeks before being planted) until final acceptance of the project. Need to clarify what’s involved in “maintenance”. Since there is no “establishment period”, installation covers the time from when the plant arrives on site until the project is final accepted which could be days, weeks, months or even years later. We need to be clear that maintenance includes all activities to keep the plant at Florida No. 1 including fertilizing, pruning, pest management, etc. as well as maintaining mulch beds, weeding, etc. Section 580-4.7 Recommend changing title from “Repair and Restoration” to “Site Repair and Restoration” to be consistent with the language in SP5800000.

Response: Entire paragraphs about regenerated sabal palms have been deleted. Agree with the suggested edits for clarity and consistency. No change made to 580-4.6.
