
USACE / NAVFAC / AFCEC UFGS-32 05 33 (August 2017)

Preparing Activity: NAVFAC

Superseding
UFGS-32 05 33 (February 2010)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated October 2025

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SECTION 32 05 33

LANDSCAPE ESTABLISHMENT 08/17

NOTE: This guide specification covers the requirements for plant material and irrigation during the establishment period.

Adhere to UFC 1-300-02 Unified Facilities Guide Specifications (UFGS) Format Standard when editing this guide specification or preparing new project specification sections. Edit this guide specification for project specific requirements by adding, deleting, or revising text. For bracketed items, choose applicable item(s) or insert appropriate information.

Remove information and requirements not required in respective project, whether or not brackets are present.

Comments, suggestions and recommended changes for this guide specification are welcome and should be submitted as a Criteria Change Request (CCR).

PART 1 GENERAL

1.1 REFERENCES

NOTE: This paragraph is used to list the publications cited in the text of the guide specification. The publications are referred to in the text by basic designation only and listed in this paragraph by organization, designation, date, and title.

Use the Reference Wizard's Check Reference feature when you add a Reference Identifier (RID) outside of the Section's Reference Article to automatically place the reference in the Reference Article. Also use the Reference Wizard's Check Reference feature

to update the issue dates.

References not used in the text will automatically be deleted from this section of the project specification when you choose to reconcile references in the publish print process.

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM INTERNATIONAL (ASTM)

- | | |
|------------|---|
| ASTM D2103 | (2015) Standard Specification for Polyethylene Film and Sheeting |
| ASTM D5851 | (1995; R 2015) Planning and Implementing a Water Monitoring Program |
| ASTM D6155 | (2019) Nontraditional Coarse Aggregate for Bituminous Paving Mixtures |

TREE CARE INDUSTRY ASSOCIATION (TCIA)

- | | |
|-----------|--|
| TCIA Z133 | (2017) American National Standard for Arboricultural Operations - Pruning, Repairing, Maintaining, and Removing Trees, and Cutting Brush - Safety Requirements |
|-----------|--|

1.2 DEFINITIONS

1.2.1 Pesticide

Any substance or mixture of substances, including biological control agents, that may prevent, destroy, repel, or mitigate pests and are specifically labeled for use by the U.S. Environmental Protection Agency (EPA). Also, any substance used as a plant regulator, defoliant, disinfectant, or biocide. Examples of pesticides include fumigants, herbicides, insecticides, fungicides, nematocides, molluscicides and rodenticides.

1.2.2 Stand of Turf

[100][95] percent ground cover of the established species.

1.2.3 Planter Beds

A planter bed is defined as an area containing one or a combination of the following plant types: shrubs, vines, wildflowers, annuals, perennials, ground cover, [and a mulch topdressing] excluding turf. Trees may also be found in planter beds.

1.3 RELATED REQUIREMENTS

[Section 32 84 24 IRRIGATION SPRINKLER SYSTEM applies to this section for installation of irrigation equipment requirements, with additions and modifications herein.

] [Section 32 92 19 SEEDING][Section 32 92 23 SODDING][Section 32 92 26 SPRIGGING] applies to this section for installation of [seed][sod][sprigging] requirements, with additions and modifications herein.

[Section 32 93 00 EXTERIOR PLANTS applies to this section for installation of [trees,] [shrubs,] [ground cover,] [vines,] and [wildflower,] with additions and modifications herein.

][Section 32 96 00 TRANSPLANTING EXTERIOR PLANTS applies to this section for transplanting of [trees,] [shrubs,] [ground cover,] [vines,] and [wildflower,] with additions and modifications herein.

]1.4 SUBMITTALS

NOTE: Review Submittal Description (SD) definitions in Section 01 33 00 SUBMITTAL PROCEDURES and edit the following list, and corresponding submittal items in the text, to reflect only the submittals required for the project. The Guide Specification technical editors have classified those items that require Government approval, due to their complexity or criticality, with a "G." Generally, other submittal items can be reviewed by the Contractor's Quality Control System. Only add a "G" to an item if the submittal is sufficiently important or complex in context of the project.

For Army projects, fill in the empty brackets following the "G" classification, with a code of up to three characters to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office); "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes following the "G" typically are not used for Navy and Air Force projects.

The "S" classification indicates submittals required as proof of compliance for sustainability Guiding Principles Validation or Third Party Certification and as described in Section 01 33 00 SUBMITTAL PROCEDURES.

Government approval is required for submittals with a "G" or "S" classification. Submittals not having a "G" or "S" classification are for Contractor Quality Control approval. Submittals not having a "G" or "S" classification are for information only. When used, a code following the "G" classification identifies the office that will review the submittal for the Government. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Integrated Pest Management Plan; G, [_____]

SD-03 Product Data

Fertilizer; G, [_____]

Mulches Topdressing

Organic Mulch Materials

SD-07 Certificates

Maintenance Inspection Report

[Plant Quantities; G, [_____]

] SD-10 Operation and Maintenance Data

Maintenance

SD-11 Closeout Submittals

Tree Staking and Guying Removal

1.5 DELIVERY, STORAGE AND HANDLING

1.5.1 Delivery

Deliver fertilizer, [gypsum,] [iron] to the site in original containers bearing manufacturer's chemical analysis, name, trade name, or trademark, and indication of conformance to state and federal laws. Instead of containers, fertilizer, [gypsum] may be furnished in bulk with a certificate indicating the above information.

1.5.2 Storage

1.5.2.1 Fertilizer, [Lime], [Iron,] [Mulch] Storage

Store material in designated areas. Store [lime and] fertilizer in cool, dry locations away from contaminants.

1.5.2.2 Antidesiccant's Storage

Do not store with fertilizers or other landscape maintenance materials.

1.5.3 Handling

Do not drop or dump materials from vehicles.

1.6 MAINTENANCE

Submit Operation and Maintenance (O&M) Manuals for planting materials. Include instructions indicating procedures during one typical year including variations of maintenance for climatic conditions throughout the year. Provide instructions and procedures for watering; promotion of growth, including fertilizing, pruning, and mowing; and integrated pest management. O&M Manuals must include pictures of planting materials cross referenced to botanical and common names, with a description of the normal appearance in each season.

Develop a water monitoring program for surface and ground water on the project site in accordance with ASTM D5851 and consistent with the water management program utilized during construction operations.

PART 2 PRODUCTS

2.1 POST-PLANT FERTILIZER

NOTE: Check with the local Agriculture County
Extension Service Office for recommended fertilizer
mixture for local conditions.

Fertilizer for groundcover, wildflowers, and grasses is not permitted. Provide fertilizer for trees, plants, and shrubs as recommended by plant supplier, except synthetic chemical fertilizers are not permitted. Fertilizers containing petrochemical additives or that have been treated with pesticides or herbicides are not permitted.

2.1.1 Granular Fertilizer

Organic, granular controlled release fertilizer containing the following minimum percentages, by weight, of plant food nutrients:

[_____] percent available nitrogen
[_____] percent available phosphorus
[_____] percent available potassium
[_____] percent sulfur
[_____] percent iron

2.2 WATER

NOTE: When water is Government furnished, locate the source. Recycled or reclaimed irrigation water may be available through a tertiary treatment plant on or off site. It is preferred that this type of water be used for irrigation whenever possible. Check project specific conditions.

Unless otherwise directed, water is the responsibility of the Contractor. Water source must be potable or non-potable. Non-potable is preferred. If non-potable edit specification accordingly. Source of water must be approved by the Contracting Officer and must be of suitable quality for irrigation, containing no elements toxic to plant life.

Coordinate information presented here with Section
01 50 00 TEMPORARY CONSTRUCTION FACILITIES AND
CONTROLS

Source of water must be approved by the Contracting Officer, and be of suitable quality for irrigation. Use collected storm water or graywater when available.

2.3 MULCHES TOPDRESSING

NOTE: Check with the local Agriculture County
Extension Service Office for recommended and locally
available mulch material. Specify only one type of
mulch for the project.

Free from noxious weeds, mold, pesticides, or other deleterious materials.

NOTE: Use inert mulch materials only when organic
mulch is not available, or when site is located in a
dry climate.

2.3.1 Inert Mulch Materials

NOTE: Select desired mulch materials. Use
materials with recycled content where appropriate
for use. Verify suitability, availability within
the region, cost effectiveness and adequate
competition before specifying products with recycled
content.

Provide [recycled] [stone,] [riverbank stone,] [crushed pit-run rock,]
[granite chips,] [_____,] [or other recycled material] complying with
ASTM D6155, ranging in size from [_____] to [_____] mm inches. [Provide
materials from site and construction waste to the greatest extent
possible.]

2.3.2 Organic Mulch Materials

NOTE: For projects at Camp Lejeune and New River,
use pine straw mulch only. Delete all other options.

NOTE: Hydraulic mulch is an EPA designated product
for recycled content. Recycled content percentages
listed are recommended by EPA; additional
information can be found on the EPA's "Comprehensive
Procurement Guidelines (CPG)" page within EPA's
website at <http://www.epa.gov>.

Provide [wood cellulose fiber,] [wood chips,] [shredded hardwood,]
[shredded redwood bark,] [pine straw mulch,] [pine needles,] or [recycled]
[_____] from site when available. Wood cellulose fiber must be processed
to contain no growth or germination-inhibiting factors, dyed with
non-toxic, biodegradable dye to an appropriate color to facilitate visual
metering of materials application. Paper-based hydraulic mulch must
contain a minimum of 100 percent post-consumer recycled content.
Wood-based hydraulic mulch must contain a minimum of 100 percent total

recovered materials content.

2.3.3 Recycled Organic Mulch

Recycled mulch may include compost, tree trimmings, or pine needles with a gradation that passes through a 65 by 65 mm 2-1/2 by 2-1/2 inch screen. Clean recycled mulch of all sticks a minimum 25 mm one inch in diameter and plastic materials a minimum 75 mm 3 inch length. The material must be treated to retard the growth of mold and fungi.

2.4 PESTICIDES

NOTE: Integrated pest management, according to the U.S. Department of Agriculture - Agricultural Research Service, is the judicious use and integration of various pest control tactics of the associated environment of the pest in ways that complement and facilitate the biological and other natural controls of pests to meet economic, public health, and environmental goals. The national goal of implementing integrated pest management methods on 75 percent of the nation's cropland was jointly announced by USDA, the U.S. EPA, and the FDA in September 1993. This goal represents a commitment by the federal government to work with its state and private sector partners to develop and implement ecologically-based pest management approaches that rely less on synthetic chemical pest controls and are more sustainable. Specify use of native beneficial insects and appropriate companion plants, such as those with natural pyrethrums.

Pesticides and herbicides are not permitted. [Use black sheet polyethylene conforming to ASTM D2103, minimum thickness 4 mm 5/32 inch.]Submit an Integrated Pest Management Plan, including [weed and pest management strategies] [proposed alternatives to herbicides and pesticides]. Use biological pest controls as approved in the Plan.

PART 3 EXECUTION

3.1 EXTENT OF WORK

NOTE: Typically native plants will require less maintenance than non-native plants and turf. Verify maintenance requirements appropriate to the species and climate.

Provide landscape construction maintenance to include [irrigation equipment cleaning and adjustments,] [mowing,] [edging,] [overseeding,] [aeration,] [fertilizing,] [watering,] [weeding,] [pruning,] [stake and guy adjusting,] [and] [_____] for all [newly installed] [renovated] landscape areas [and existing plant material], unless indicated otherwise, and at all areas inside or outside the limits of the construction that are disturbed by the Contractor's operations.

[3.1.1 Policing

Police all landscaped areas. Policing includes removal of leaves, branches and limbs regardless of length or diameter, dead vegetation, paper, trash, cigarette butts, garbage, rocks or other debris. [Policing must extend to both sides of fencing or walls.] Collected debris must be promptly removed and disposed of at an approved disposal site.

] [3.1.2 Drainage System Maintenance

Remove all obstructions from surface and subsurface drain lines to allow water to flow unrestricted in [swales,] [gutters,] [catch basins,] [storm drain curb inlets,] [and] [yard drains]. Remove grates and clear debris in catch basins. Open drainage channels are to be maintained free of all debris and vegetation at all times. Edges of these channels must be clear of any encroachment by vegetation.

] [3.2 IRRIGATION ESTABLISHMENT PERIOD

The irrigation establishment period will commence on the date that inspection by the Contracting Officer shows that the [new] [repaired] irrigation equipment furnished under this contract have been satisfactorily installed and is functional and must continue for a period of [365] [_____] days.

3.2.1 Maintenance During the Irrigation Establishment Period

Begin maintenance immediately after irrigation equipment has been installed and is functional. Inspect irrigation equipment at least [once a week][_____] during the installation and establishment period and perform needed maintenance promptly. Automatic controllers not equipped with rain shut-off sensors must be turned off during periods of rain that exceed twelve hours of continuous rainfall in one day or during rain storms of one day or more. Once the rain has subsided timers must be reactivated. Irrigation controllers must be inspected and reprogrammed after power outages. Contractor must be responsible for winterization and startup. Sprinkler heads must direct water away from buildings and hard surfaced areas.

3.2.2 Water Restrictions

Abide by state, local or other water conservation regulations in force during the establishment period. Automatic controller must be adjusted to comply with the water conservation regulations schedule.

3.2.3 Fire Hydrants

NOTE: Coordinate information presented here with
Section 01 50 00 TEMPORARY CONSTRUCTION FACILITIES
AND CONTROLS

To use a fire hydrant for irrigation, obtain prior clearance from the Contracting Officer and provide the tools and connections approved for use on fire hydrants. If a fire hydrant is used, Provide a reduced pressure backflow preventer for each connection between hose and fire hydrant. Backflow preventer used must be tested once per month by a certified backflow preventer tester.

3.2.4 Final Acceptance

[Upon completion of the irrigation establishment period and final acceptance of groundcover and exterior plants, irrigation equipment must be removed.][Operation and coverage test is acceptable if system operates through at least one complete cycle for areas to be irrigated and all leaks or repairs have been completed.]

3.2.5 Controller Charts

Provide one chart for each controller supplied. Indicate in chart area controlled by the automatic controller. The chart is a reduction of the actual plan[s] that will fit the maximum dimensions inside the controller housing. Use a black line print for the chart and a different pastel or transparent color to indicate each station zone of coverage. After chart is completed and approved for final acceptance, seal chart between two 0.5 mm 20 mil pieces of clear plastic.

]3.3 GROUNDCOVER ESTABLISHMENT PERIOD

Groundcover establishment period will commence on the date that inspection by the Contracting Officer shows that the [new] [renovated] turf furnished under this contract has been satisfactorily installed to a [_____] [95 percent] [100 percent] stand of coverage. The establishment period must continue for a period of [365] [_____] days.

3.3.1 Frequency of Maintenance

Begin maintenance immediately after turf has been [installed] [fully renovated]. Inspect area[s] [once a week] [_____] during the installation and establishment period and perform needed maintenance promptly.

3.3.2 Promotion of Growth

Maintain groundcover in a manner that promotes proper health, growth, natural color. Turf must have a neat uniform manicured appearance, free of bare areas, ruts, holes, weeds, pests, dead vegetation, debris, and unwanted vegetation that present an unsightly appearance. Mow, remove excess clippings, eradicate weeds, water, fertilize, [overseed,] [aerate,] [topdress] and perform other operations necessary to promote growth, as approved by Contracting Officer and consistent with approved Integrated Pest Management Plan. Remove noxious weeds common to the area from planting areas by mechanical means.

3.3.3 Mowing

**NOTE: Check with the local Agriculture County
Extension Service for turf mowing heights as this
requirement may vary due to local conditions and
species specified.**

3.3.3.1 Turf

Mow turf at a uniform finished height. Mow turfed area[s] to a minimum average height of [76] [102] [_____] mm [3] [4] [_____] inches when average height of grass becomes [_____] mm inches for spring/summer maintenance

and to a minimum average height of [76][102][_____] mm [3][4][_____] inches when the average height of grass reaches [_____] mm inches for fall [winter] maintenance. The height of turf is measured from the soil. Perform mowing of turf in a manner that prevents scalping, rutting, bruising, uneven and rough cutting. Prior to mowing, all rubbish, debris, trash, leaves, rocks, paper, and limbs or branches on a turf area must be picked up and disposed. Adjacent paved areas must be swept/vacuumed clean.

3.3.3.2 Native Grasses

[Mow above height of native grass seedlings (approximately 89 to 102 mm 3.5 to 4 inches). Mow during spring or early summer. Do not mow after early summer during the second growing season.

3.3.3.3 Wildflowers

[Mow three times per season above height of the wildflowers (approximately 305 to 381 mm 12 to 15 inches).

3.3.4 Turf Edging and Trimming

Perimeter of planter bed edges, sidewalks, driveways, curbs, and other paved surfaces must be edged. Uniformly edge these areas to prevent encroachment of vegetation onto paved surfaces and to provide a clear cut division line between planter beds, turf, and ground cover. Edging is to be accomplished in a manner that prevents scalping, rutting, bruising, uneven and rough cutting. Perform edging on the same day that turf is mowed. Use of string line trimmers is permitted in "soft" areas such as an edge between turfgrass and a planter bed. Exercise care to avoid damage to any plant materials, structures, and other landscape features.

Trimming around [trees,] [fences,] [poles,] [walls,] [irrigation valve boxes] and other similar objects is to be accomplished to match the height and appearance of surrounding mowed turf growth. Trimming must be performed on the same day the turf's mowed. Care must be exercised to avoid "Girdling" trees located in turf areas. The use of protective tree collars on trees in turf areas may be utilized as a temporary means to avoid injury to tree trunks. At the end of the plant establishment period Contractor will be responsible for removing all protective tree collars.

3.3.5 Post-Fertilizer Application

**NOTE: Check with the local Agriculture County
Extension Service for type of fertilizer, time
intervals, and application rate as these
requirements may vary due to local conditions and
specie specified.**

Do not fertilize wildflowers, groundcover, and grasses. Apply turf fertilizer in a manner that promotes health, growth, vigor, color and appearance of cultivated turf areas. The method of application, fertilizer type and frequencies must be determined by the laboratory soil analysis results the requirements of the particular turf species.[Organic fertilizer must be used. In the event that organic fertilizer is not producing the desired effect, the Contractor must contract the Contracting Officer for approval prior to the use of a synthetic type of fertilizer.] Apply fertilizer by approved methods in accordance with the

manufacturer's recommendations.

3.3.6 Turf Watering

Perform irrigation in a manner that promotes the health, growth, color and appearance of cultivated vegetation and that complies with all Federal, State, and local water agencies and authorities directives. The Contractor must be responsible to prevent over watering, water run-off, erosion, and ponding due to excessive quantities or rate of application. Abide by state, local or other water conservation regulations or restrictions in force during the establishment period.[Adjust irrigation controllers to comply with the water conservation regulations schedule].

[3.3.7 Turf Aeration

Upon completion of weed eradication operations and Contracting Officer's approval to proceed, aerate turf areas by approved device. Core, by pulling soil plugs, to a minimum depth of [_____] mm inches. Leave all soil plugs that are produced in the turf area.[After aeration operations are complete, topdress entire area [6.35] [12.70] mm [1/4] [1/2] inch depth with the following mixture:

[[_____] percent sand
][[_____] percent humus
][[_____] percent gypsum
][[_____] percent lime

] Blend all parts of topdressing mixture to a uniform consistency throughout.] Keep clean at all times at least one paved pedestrian access route and one paved vehicular access route to each building. Clean all soil plugs off of other paving when work is complete. This work must commence [_____] days prior final acceptance of the maintenance establishment period.

]3.3.8 Turf Clearance Area

Trees located in turf areas must be maintained with a growth free clearance of [450 mm]18 inches][_____] from the tree trunk base. The use of mechanical weed whips to accomplish the turf growth free bed area is prohibited.

]3.3.9 Replanting

Replant in accordance with [Section 32 92 19 SEEDING][Section 32 92 23 SODDING][Section 32 92 26 SPRIGGING] and within specified planting dates areas which do not have a satisfactory stand of turf. Replant areas which do not have a satisfactory stand of other groundcover and grasses.

3.3.10 Final Inspection and Acceptance

Final inspection will be make upon written request from the Contractor at least 10 days prior to the last day of the turf establishment period. Final turf acceptance will be based upon a satisfactory stand of turf. Final acceptance of wildflower and grass areas will be based upon a stand of 95 percent groundcover of established species.

3.3.11 Unsatisfactory Work

When work is found to not meet design intent and specifications,

maintenance period will be extended at no additional cost to the Government until work has been completed, inspected and accepted by Contracting Officer.

3.4 EXTERIOR PLANT ESTABLISHMENT PERIOD

NOTE: It is advisable to coordinate the Planter Bed Establishment Period Time Frame with the Guarantee Period.

The exterior plant establishment period will commence on the date that inspection by the Contracting Officer shows that the [new plants][transplanted plants] furnished under this contract [has][have] been satisfactorily installed and must continue for a period of [365] [_____] days.

3.4.1 Frequency of Maintenance

Begin maintenance immediately after plants have been installed. Inspect exterior plants at least [once a week][_____] during the installation and establishment period and perform needed maintenance promptly.

3.4.2 Promotion of Plant Growth and Vigor

Water, prune, fertilize, mulch, adjust stakes, guys and turnbuckles, eradicate weeds and perform other operations necessary to promote plant growth, and vigor.

3.4.3 Planter Bed Maintenance

Planter beds must be weeded, fertilized, irrigated, kept pest free, turf free, pruned, and mulch levels maintained. Planter beds will not be allowed to encroach into turf areas. A definite break must be maintained between turf areas and planter beds. Fertilize exterior planting materials to promote healthy plant growth without encouraging excessive top foliar growth. Remove noxious weeds common to the area from planting areas by mechanical means.

3.4.3.1 Shrub Selective Maintenance

In addition to the above requirements, shrubs must be selectively pruned, and shaped for health and safety when the following conditions exist: Remove growth in front of windows, over entrance ways or walks, and any growth which will obstruct vision at street intersections or of security personnel; Remove dead, damaged or diseased branches or limbs; where shrub growth obstructs pedestrian walkways; where shrub growth is found growing against or over structures; where shrub growth permits concealment of unauthorized persons. Dispose of all pruning debris in a proper manner.

3.4.3.2 Tree Maintenance

Tree maintenance must include adjustment of stakes, ties, guy supports [and turnbuckles], watering, fertilizing, pest control, mulching, pruning for health and safety [and fall leaf cleanup]. Fertilize exterior trees to promote healthy plant growth without encouraging excessive top foliar growth. Inspect and adjust stakes, ties, guy supports [and turnbuckles] to avoid girdling and promote natural development. All trees within the

project boundaries, regardless of caliper, must be selectively pruned for safety and health reasons. These include but are not limited to removal of dead and broken branches and correction of structural defects. Prune trees according to their natural growth characteristics leaving trees well shaped and balanced. Pruning of all trees including palm trees must be accomplished by or in the presence of a certified member of the International Society of Arboriculture and in accordance with TCIA Z133. All pruning debris generated must be disposed of in a proper manner.

[3.4.4 Slope Erosion Control Maintenance

Provide slope erosion control maintenance to prevent undermining of all slopes in [newly landscaped] [and] [natural growth areas]. Maintenance tasks include immediate repairs to weak spots in sloped areas, [and] [maintaining clean, clear [culverts,] and graded [berms,] [and] [terraces] to intercept and direct water flow to prevent development of large gullies and slope erosion] [and] [during periods of extended rainfall, irrigation systems must be secured.] Eroded areas must be filled with amended topsoil and replanted with the same plant species. [Erosion control [netting] [blankets] damaged due to slope erosion must be reinstalled.]

]3.4.5 Removal of Dying or Dead Plants

Remove dead and dying plants and provide new plants immediately upon commencement of the specified planting season, and replace [stakes,] [guys,] mulch and eroded earth mound water basins. Provide an additional 90 day establishment period for replacement plants beyond the original warranty period. A tree must be considered dying or dead when the main leader has died back, or a minimum of 20 percent of the crown has died. A shrub or ground cover must be considered dying or dead when a minimum of 20 percent of the plant has died. This condition must be determined by scraping on a branch an area 2 mm 1/16 inch square, maximum, to determine the cause for dying plant material and must provide recommendations for replacement. The Contractor must determine the cause for dying plant material and provide recommendations for replacement.

3.4.6 Tracking of Unhealthy Plants

Note plants not in healthy growing condition, as determined by the Contracting Officer, and as soon as seasonal conditions permit, remove and replace with plants of the same species and sizes as originally specified. Install replacement plantings in accordance with Section 32 93 00 EXTERIOR PLANTS.

3.4.7 Final Inspection

Final inspection will be made upon written request from the Contractor at least 10 days prior to the last day of the establishment period. Final inspection will be based upon satisfactory health and growth of plants and on the following:

3.4.7.1 Total Plants on Site

Plants have been accepted and required number of replacements have been installed.

3.4.7.2 Mulching and Weeding

Planter beds and earth mound water basins are properly mulched and free of

weeds.

[3.4.7.3 Tree Supports

[Stakes] [guys] guys and turnbuckles are in good condition.

]3.4.7.4 Remedial Work

Remedial measures directed by the Contracting Officer to ensure plant material survival and promote healthy growth have been completed.

3.4.8 Unsatisfactory Work

When work is found to not meet design intent and specifications, maintenance period will be extended at no additional cost to the Government until work has been completed, inspected and accepted by Contracting Officer.

3.5 FIELD QUALITY CONTROL

3.5.1 Maintenance Inspection Report

Provide maintenance inspection report to assure that landscape maintenance is being performed in accordance with the specifications and in the best interest of plant growth and survivability. Site observations must be documented at the start of the establishment period, then quarterly following the start, and at the end of establishment period. Submit results of site observation visits to the Contracting Officer within 7 calendar days of each site observation visit.

[3.5.2 Plant Quantities

Provide Contracting Officer with the number of plant quantities. In addition, provide total exterior area of hardscape and landscaping such as turf and total number of shrubs.

]3.5.3 Tree Staking and Guying Removal

Provide a certified letter that all stakes and guys are removed from all project trees at the end of the establishment period.

-- End of Section --