

# SIUE LANDSCAPE UPGRADE

## **Project Introduction**

The Southern Illinois University Edwardsville campus was established and built in the mid-1960's, based on a landscape master plan by HOK. The landscape plan had been executed and is maintained per the original design, with the exception of the formal tree lines shown along University Drive and the main drop-off drive into center campus; these were never installed.

Over the intervening thirty-five years, the campus landscape has matured and is an essential part of the visual character of the campus.

Characterized by a rolling topography of open fields defined by native woods, the landscape plan utilized naturalistic massings of native and introduced tree species to connect the built campus to the surrounding woods and field. However, over the same time, a number of the tree and shrub species have matured and declined, leaving holes and gaps in the landscape. At this time, the University recognizes the need and opportunity to revisit and update the campus landscape master plan in order to reinforce and enhance the campus landscape.

## **Existing Condition Analysis**

A site inventory and assessment of the existing landscape planting within Circle Drive and Fan Parking Lot areas of campus was conducted during June and July 2000. This inventory and assessment, and the resulting analysis of the existing conditions, was the first step in developing a landscape master plan update for the campus

## **Master Plan Concepts**

Based on the Existing Condition Analysis, campus landscape design principles and concepts were identified. The combination of these design principles and concepts -- plus the introduction of additional design principles and concepts that address identified maintenance and design issues -- form the framework for the development of the landscape master plan.

## **Tentative Schedule**

Note: Final schedule may change based on plant availability and campus priorities.

Year 1

Shrub Barrier Hedge (J)	All	395 Shrubs
Informal Canopy Trees (H)	Half	72 Trees
Canopy and Flowering Trees (G)	Half	50 Trees

Year 2

Formal Street Tree Line (B)	All	81 Trees
Accent Groves (F)	Half	33 Trees
Shrub Buffer (I)	Half	260 Shrubs

Year 3

Informal Canopy Trees (H)	Rest	72 Trees
Canopy and Flowering Trees (G)	Rest	51 Trees
Shrub Buffer	Rest	260 Shrubs

Year 4

Accent Groves (F)	Rest	33 Trees
Infill Ellipse (E)	Half	32 Trees
Formal Street Line (C)	All	77 Trees
Planting Beds	Part	

Year 5

Infill Trees (E)	Rest	32 Trees
Hairpin Tree Line (D)	All	77 Trees
Planting Beds	Rest	

**SIUE LANDSCAPE UPGRADE**

1. GENERAL INFORMATION

1.1\_ WORK INCLUDES

A. Base Bid

1. General Contractor provide:

- a. Trees, plants, ground cover, and mulch.
- b. Topsoil bedding as needed.
- c. Temporary support.
- d. Installation maintenance.

1.2 QUALITY ASSURANCE

- A. Installing firm: Documented 5 years experience in work of similar complexity.
- B. Workmen: Personnel experienced in work specified, under direction of a skilled foreman.
- C. Maintain plantings as specified herein.

1.3 SUBMITTALS

- A. Certificates: Submit to the Architect/Engineer an inspection certificate as required by State and Federal laws with respect to inspection for plant diseases and insect infestation.
- B. Provide representative samples of the mulch for selection by the Architect/Engineer

1.4 DELIVERY, STORAGE, & HANDLING

- A.. Arrange delivery in sufficient quantities and time to maintain approved construction schedule as amended.
- B. Deliver, store, and handle plant materials in accord with industry standards.
  - 1. Plants will be rejected when the root balls have been cracked or broken prior to or during the planting process.
  - 2. Plant materials are to be handled by their root balls. They are never to be lifted by their branches or trunks.

#### 1.5 WARRANTY

- A. Furnish Using Agency with a warranty against defective materials and workmanship for a period of one year plus one growing season.
- B. Replace all plant material found dead or not in a healthy growing condition for one year for 50% of the installed cost.
- C. Replacements: Replacement plant materials are to be of the same size and species.

### 2. PRODUCTS

#### 2.1 MATERIALS

- A. Trees, plants, and ground cover:
  - 1. Plants shall meet the requirements of the industry.
  - 2. Plant material types and sizes are firm. However, substitutions may be allowed with the approval of the Architect/Engineer.
  - 3. Plants shall be symmetrical, exceptionally heavy, and full branched. When more than one is required, all shall be uniform in size and shape and consistent.
- B. Shredded bark mulch: Hardwood or pine bark mulch free from dirt, weeds, weed seeds, and other deleterious matter.
- C. Support stakes as needed.

### 3. EXECUTION

### 3.1 PREPARATION

- A. Before planting trees and large plants, establish location and extent of existing underground utilities occurring in work areas.
  - 1. Contact JULIE System by calling 800-892-0123 to identify location of underground utilities
  - 2. Contact Southern Illinois University Edwardsville at 618-650-2999 for utility location with a 48-hour notice.
  - 3. Contact utility owners directly for non-members of JULIE.

### 3.2 INSPECTION

- A. Carefully inspect prior work and existing conditions. Notify Architect/Engineer immediately of all conditions that would impair proper execution of the work. Confirm notice in writing. Failure to notify, or start of work, constitutes acceptance of all existing conditions.

### 3.3 INSTALLATION

- A. Planting time shall be in accordance with industry standards.
- B. Place plant materials on site, according to the plans, for review and final orientation by Architect/Engineer prior to installation.
- C. Excavate for plant materials as shown on the details. Walls of the plant pits shall be dug so that they are vertical and scarified.
- D. Backfill mixture: What comes out of the hole goes back into the hole.
- E. Place plant materials in planting hole.
  - 1. Set plant's root ball above surrounding grade so that after settlement the root ball height will be relative to grade as originally grown in the nursery.
  - 2. Set plants straight and in the center of the plant pits.
  - 3. Set plants in pits or beds partly filled with prepared backfill mixture at a minimum depth of 6" under each plant as indicated on the details. Pull away burlap, ropes, wires, and other fasteners from the top of the root ball. Remove all plastic wrap and twine.
  - 4. Place bare root plants so that the roots lie in a natural position.
  - 5. Place backfill mixture in 6" lifts. Tamp each lift uniformly. Do not place any soil on top of root balls. Maintain plant materials in

a vertical position.

6. Form a saucer above the existing grade and around the outer rim of each plant pit as shown on the details.
  7. Within 48 hours cover with mulch.
- F. Water each plant when its plant pit is half full of backfill mixture and twice when the planting is finished with the saucer and mulching in place.
- G. Prune out any dead or broken branches.
- H. Remove all tags, labels, strings, etc., from the tree.

### 3.4 MULCH BEDS

- B. Construct all mulch beds 3" deep.

### 3.5 INSTALLATION MAINTENANCE

- A. Begin maintenance of plant materials immediately after planting.
- B. Maintenance includes all measures to establish and maintain plants in a vigorous and healthy growing condition.
1. Water sufficiently to saturate root system.
    - a. Water to be provided by the Using Agency at the exterior building hose bibs on site.
    - b. Transport water from the exterior hose bibs by hose or tank vehicle to the on-site irrigation area.
    - c. Distribute irrigation water with the proper nozzle or sprinkler device.
    - d. Maintain watering program throughout the entire maintenance period.
  2. Prune, including removal of dead, unhealthy, or broken branches; treat prune wounds.
  3. Control disease and insects.
  4. Maintain wrappings, guys, and stakes. Repair or replace accessories when they are damaged or missing
- C. Contractor may offer Using Agency a separate Maintenance Contract to begin at the end of the Warranty period, renewable at option of either

party.

### 3.6 CLEAN UP

- A. Upon completion of the work, remove all surplus materials, packaging, rubbish, and debris from the premises.
- B. Provide adequate protection to prevent plant materials from damage until final acceptance.

## Year 1

- (J) SHRUB BARRIER HEDGE ROW.  
Side medians of Fan Parking Area  
395 Japanese Red Barberry  
5 gal. 18-30"
  
- (H) INFORMAL CANOPY TREE GROUPINGS  
Parking Lot Side Aisles and Medians  
72 Trees, 3" Caliper  
Red Maple - Red Sunset, and October Glory,  
Green Ash - Summit and Urbanite  
Flowering Pear - Redspire and Stone Hill  
Zelkova - Green Vase and Village Green
  
- (G) INFORMAL GROVES OF CANOPY AND FLOWERING TREES  
Back Perimeter of Fan Parking Lot and Infill of Wooded Stands within Central Campus  
50 Trees, 3" caliper  
Sugar Maple - Legacy  
Green Ash - Cimmaron  
Callery Flowering Pear - Redspire and Stone Hill  
Eastern Redbud  
Crabapple Hybrid  
Prairie Fire, Robinson, Sargent, Snowdrift

## Year 2

- (B) FORMAL STREET TREELINE  
South University Drive and Ellipse Perimeter  
81 Trees, 3" caliper  
Homestead Elm
  
- (F) ACCENT GROVES SINGLE SPECIES PLANTINGS  
33 Trees, 3" caliper  
White Birch, River Birch, Redbud
  
- (VIII) SHRUB BUFFER HEDGE ROW  
Front Medians of Fan Parking Lots  
260 shrubs, 5 gal. 18-30"  
Double row with two species  
Evergreen background, flowering shrub foreground

## Year 3



(H) UPRIGHT TREES IN PARKING LOT

Parking Lot Drive Aisles

72 Trees, 3" Caliper

Red Maple - Armstrong, Bowhall, Sentinel

Ginkgo - Sentry, Lakeview

Crabapple Hybrid - Adirondack, Red Barron, Sentinel

Callery Pear - Capital, Chanticleer, Cleveland Select

Pyramidal English Oak - Fantigiata

(G) INFORMAL GROVES OF CANOPY AND FLOWERING TREES

Back Perimeter of Fan Parking Lots and Infill of Wooded Stands within Central Campus

51 Trees, 3" Caliper

Sugar Maple - Legacy

Green Ash - Cimmaron

Callery Flowering Pear - Redspire and Stone Hill

Eastern Redbud

Crabapple Hybrid - Prairie Fire, Robinson, Sargent, Snowdrift

(VIII) SHRUB BUFFER HEDGE ROW

Front Medians of Fan Parking Lots

260 Shrubs, 5 gal., 18-30"

Double Row with two species

Evergreen Background, Flowering Shrub Foreground

**Year 4**

(F) ACCENT GROVES SINGLE SPECIES PLANTINGS

33 Trees, 3" Caliper

White Birch, River Birch, Red Bud

(E) INFILL TREE STANDS

Ellipse Area

32 Trees, 3" Caliper

Serviceberry species

Eastern Redbud

American Beech

(C) FORMAL STREET TREE LINE

North University Drive Medians and Ends of Ellipse

77 Trees, 3" Caliper

Green Vase Zelkova

Redmond Linden

**Year 5**

(E) INFILL TREE STANDS

Ellipse Area

32 Trees, 3" Caliper

Serviceberry Species

Eastern Redbud

American Beech

Crabapple Hybrids -

Floribunda, Prairie Fire, Robinson, Sargent, Snowdrift

(D) FASTIGATE TREE LINE

Campus Entry Drive and Ellipse Walks

77 Trees, 3" Caliper

Lakeview Ginkgo, and Chancellor Linden