
Chapter 10 – Landscape Division

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Chapter 10

10.1 Landscape

It is recommended that the default level structure for landscape Designware be utilized. This has been the most convenient method of plan development thus far and has not presented any problems when interfacing with L&D level structures.

10.1.1 Line Weights and Line Types

10.1.1.1 Base information

It is recommended that all base information be shown at the line weight zero (0). Exceptions (on a case by case basis) may be a particular structure that the contractor needs to be made aware of, or significant above ground structures which impact the design. In such cases appropriate line weight should be assigned by the designer in order to highlight the particular object or structure.

10.1.1.2 Landscape Plant Symbols

Lineweights for all landscape symbols should be appropriate for clearly illustrating and distinguishing different classes of vegetation (Major Tree, Minor Tree, Shrub, etc.) on the plans, as well as clearly defining multiple layers of planting. **The specific line weight for each class of material is to be determined by the designer**, depending on the extent of background information from which landscape symbols must be distinguishable. As a general rule, **use the default line weights** for landscape symbols while preparing the design, then go back and adjust line weights as needed.

As an example, for plans with little or no background clutter, a line weight of three (3) would be appropriate for major trees, one (1) for minor trees, a line weight of one (1) for shrub mass/ground cover outlines, and zero (0) for shrub and ground cover patterns. The outer edge of vegetative masses may be enhanced with a heavier line weight as deemed appropriate by the designer.

10.1.1.3 Patterns

All area patterns should be shown at line weight zero (0). This applies to hardscape or vegetation.

10.1.1.4 Bed Edges

The edges of mulched beds should be shown at line weight 2 or more. Delineate bed edge with Two No. 6 lines (Dash/Dot/Dot/Dash), approximately 8" parallel (25 scale) or 12" parallel (50 scale) unless adjacent to hard edge. Use inside line to measure area.

10.1.1.5 Dimensions & Labeling

Detail dimension lines on Detail Sheets should have a line weight of one (1). Lines for labeling detail references on plan layout sheets, bed areas, and planting items should have a line weight of five (5), color zero (0) or seven (7).

10.1.1.6 Detail Drawings

The specific line weights for supplementary details should be determined by the designer in order to clearly and accurately illustrate the work to be performed. It is recommended that the designer begin with a line weight of one (1) and then make adjustments accordingly.

10.1.2 Level Structure/ Colors

10.1.2.1 Level Structure, Color Summary

Trees:	Tree Level.....	40-42 (or Geopak Default)
	Tree Color.....	Default Color – or user Preference
Shrubs:	Shrub Level.....	43-44 (or Geopak Default)
	Shrub Color.....	Default Color except where complexity of a design warrants change of color to differentiate species per designer choice.
Other:	Pattern Levels.....	45-48 for patterned plant masses
	Pattern Levels.....	51-55 for hardscape (paver) patterns, etc.
	Line Style.....	0 for hatching or selected Geopak cell pattern
	Pattern Color.....	Per designer or cell Default
Furniture:	Street Furniture Level	33 (or Default)
	Color.....	Cell Default
Bed Edge:	Bed Edge Line Level.....	50
	Line Color.....	User Preference
Concept Trees for Color Renderings		
	Tree and shrub outlines	Level 10
	Color:	119
	Trees & Shrub Solids	Level 15
	Suggested Colors:	143, 192, 42, 118
Shadows:	Tree/Shrub Shadows	Default Level 51 /Color
Background:	Grass (Color 141)	Level 17

10.2 Lettering / Labels

Text sizes and text line weights will vary depending on the complexity and scale of the plans, as the degree of background clutter. The following is a **general guideline** which covers most situations for plans, details, and summaries for transportation related projects. **Text, label lines and boxes may be placed on Level 49.**

10.2.1 Summary Sheet (Sizes relative to 100 Scale sheet):

- **General Notes**
Text Height = 12; Text Width = 12; Text Line Weight = 2; Color = 0; Font = Working
- **Summary Labels**
Text Height = 12; Text Width = 12; Text Line Weight = 3; Color = 0, 1, 4 or 7; Font = Working

Use upper and lower case lettering for plant botanical names. Use upper case lettering for plant common names

10.2.2 Other Detail Sheets (Sizes relative to 100 Scale sheet):

- **Detail Titles**
Text Height = 20; Text Width = 18; Text Line Weight = 5; Color = 6 or 7 (All Caps, Font = Italic)
- **Detail Labels**
Text Height = 12; Text Width = 12; Text Line Weight = 3; Color = 0, 1, or 4; Font = Italic
- **Dimension Lines**
Text Height = 12; Text Width = 12; Text Line Weight = 3; Color = 0, 1 or 4; Font = Italic
Dimension Line Weight = 1; Color = 0

10.2.3 Plan Sheets (Sizes relative to 50 Scale sheet):

10.2.3.1 Preliminary Plans

- When using Sheet by Sheet Landscape Key:
(Bed Areas, Detail References, Plant Labels, and Key Labels)
Text Height = 5 to 7; Text Width = 5 to 7; Text Line Weight = 3; Color = 0, 1 or 4; Font = Italic

10.2.3.2 Final Plans

- When labeling each group of plantings individually for final plans:
(Bed Areas, Detail References, Plant Labels, and Key Labels)
Text Height = 5 to 7; Text Width = 5 to 7; Text Line Weight = 3; Color = 0 or 7;
Font = Italic
- Each label to be placed inside a text box, grouped and aligned with other text boxes for ease of reading the plans. Text boxes should be aligned with the respective borders of the plan sheet and may be read from the bottom or from the right.

10.2.4 Plan Sheets (Sizes relative to 25 Scale sheet):

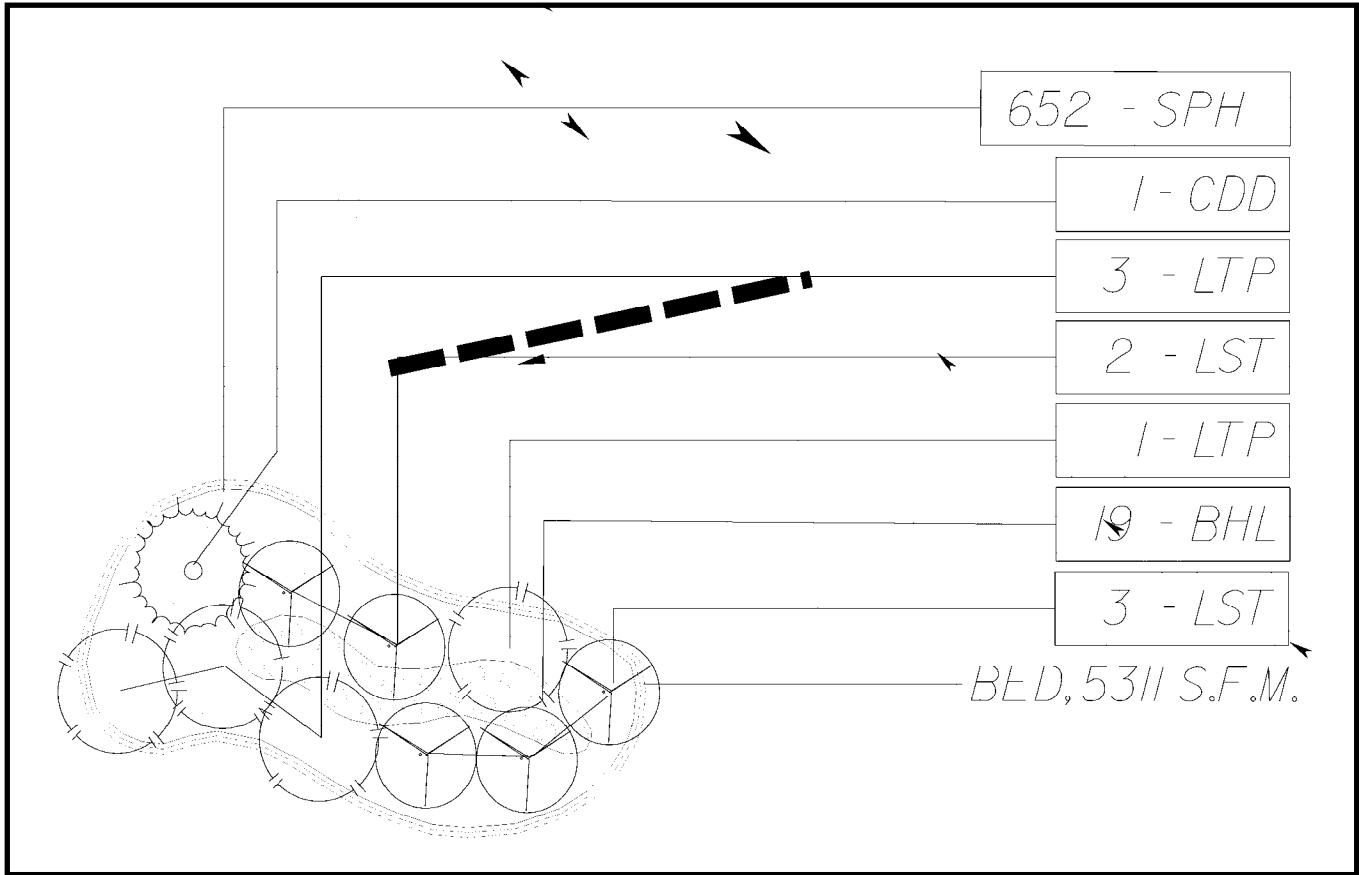
10.2.4.1 Preliminary Plans

- When using Sheet by Sheet Landscape Key:
(Bed Areas, Detail References, Plant Labels, and Key Labels)
Text Height = 2 to 3; Text Width = 2 to 3; Text Line Weight = 3 to 5; Color = 0, 1 or 4; Font = Italic

10.2.4.2 Final Plans

- When labeling each group of plantings individually for final plans:
(Bed Areas, Detail References, Plant Labels, and Key Labels)
Text Height = 2 to 3; Text Width = 2 to 3; Text Line Weight = 3 to 5; Color = 0, 1 or 4; Font = Italic
- Each label to be placed inside a text box, grouped and aligned with other text boxes for ease of reading the plans. Text boxes should be aligned with the respective borders of the plan sheet and may be read from the bottom or from the right.

10.2.4.3 Plan Labeling



10.3 Landscape Symbols

Landscape symbols for graphic representation may be chosen by the designer from the cell libraries available on **Landscape Designware** or from custom cells created by the designer. Landscape Symbols should be of a size and design which convey to the customer and contractor an accurate and legible representation of work proposed in keeping with professional practice.

10.3.1 General Guidelines:

10.3.1.1 Form

The form or design of any landscape symbol should illustrate the scale, and if necessary, the texture of the object it represents as distinguishable from other objects in the landscape. For example, a landscape plan which has ten different species of major tree, such as Oak, Maple, Ash, etc. would be redundant and confusing if the designer illustrated all the trees with a circle of the same size and line weight. A better approach would be to use different symbols including, but not limited to the circle. Also, since oaks are on average a larger tree than maples, the designer may want to illustrate them with a larger symbol. When vegetative masses are intended, such as groundcover, it is not necessary to use individual symbols for each plant. In such cases, the designer should consider using an area pattern if possible.

10.3.1.2 Size

The size of landscape symbols is relative to what the designer is trying to illustrate, and at what scale they are illustrated. But more importantly, it must also be remembered that plants are living growing things. Therefore, for the purpose of construction plans, it is not advisable to illustrate them at the size they would appear at the time of installation as they would appear too small. Neither is it advisable to show them at their ultimate size, as this would prove impractical for interpreting construction plans. In most roadway situations, therefore, the following general guidelines will help the designer begin to understand the delicate balance between scale and adequate graphic illustration. These guidelines are not, however a substitute for the designer to choose what is appropriate to their specific design.

Landscape Items

Item	Size
Major Trees	25' - 35' diameter
Minor Trees	12' - 20' diameter
Large Shrubs	5' - 10' diameter
Small Shrubs	2' - 4' diameter
Large Ornamental Grasses	5' diameter
Ornamental Grasses	3' - 5'diameter
Groundcovers Shrub masses Reforestation masses	Use area patterns
Hardscape items	Show with recognizable symbol with detail reference, or at actual size depending on the scale.