

### **Andover**

1 tree per 50 lineal feet of site perimeter; 1 shrub per 20 lineal feet of site perimeter; 1 shrub per 10 lineal feet of building perimeter.

Site Perimeter = 3,493 feet; Building Perimeter = 1,734

Trees required:  $3,493/50 = 70$

Shrubs required (site perimeter):  $3,493/20 = 175$

Shrubs required (building perimeter):  $1,734/10 = 173$

Total shrubs required: 348

### **Coon Rapids**

1 overstory tree per 40 feet of street frontage and 1 deciduous and 1 evergreen shrub per 5 feet of frontage; 1 overstory and 1 evergreen tree per 3,000 square feet of open space; 1 ornamental tree per 1,500 square feet of open space; 1 deciduous or evergreen shrub per 100 square feet of open space.

Frontage = 1,002 linear feet; Open Space\* = 288,244 square feet

Trees required:

Frontage = 25; Open Space = 96 deciduous, 96 evergreen, 192 ornamental

Total: 409 trees

Shrubs required:

Frontage = 200 deciduous and 200 evergreen; Open Space = 2,882

Total: 3,282 shrubs

\* Open space was estimated by City Staff, this information was not specifically provided on the Landscape Plan.

### **Dayton**

Required to provide at least 3 of the following required numbers of trees and shrubs: 1 overstory and 1 evergreen tree per 3,000 square feet of open space; 1 ornamental tree per 1,500 square feet of open space; 1 deciduous or evergreen shrub per 100 square feet of open space.

Trees required:

Overstory:  $288,244/3,000 = 96$ ; Evergreen:  $288,244/3,000 = 96$ ; Ornamental:  $288,244/3,000 = 192$ .

Shrubs required:

$288,244/100 = 2,882$

Applicant can pick which 3 of 4 to install on site.

## **Elk River**

Required to provide a minimum of 3 trees, plus the perimeter of the parcel as measured in feet divided by 40. Specifies that 50% of the required trees shall be overstory; 25% of required trees shall be coniferous; and 25% of the required trees shall be ornamental.

Site Perimeter = 3,493 feet

Trees required:  $3 + (3,493/40) = 90$  trees

## **Ramsey Canopy Cover Formula**

Determine ratio of impervious area to entire site area; multiply this ratio by the square footage of the pervious area to determine total square footage of canopy cover required. Refer to Ramsey Tree Book to see assigned square footage of individual species. No more than 25% of the required canopy cover can consist of ornamental trees and/or shrubs.

Site Area = 699,056 square feet

Impervious Area\* = 470,448

Pervious Area\*\* = 228,608 square feet

Ratio:  $470,448/699,056 = 0.67$

$0.67 \times 228,608 \text{ sq. ft.} = 153,167$  square feet of canopy cover required.

\* Estimated by Staff, this number was not provided as part of the plan submittal.

\*\* Estimated by Staff as this number was not provided as part of the plan submittal. This also includes the area of storm water ponding where plantings would not be permitted.

Based on the species included in the Landscape Plan, the canopy cover provided is 98,925 square feet (15% consisting of shrubs/ornamental trees). It is worth noting that if different species were chosen, which had greater assigned canopy cover square footage (e.g. bur oak, basswood, different variety of honeylocust and/or linden), the canopy cover calculation could easily be increased without adding any additional plantings.