APPENDIX 10 - Proper Planting Practice - Provide Adequate Growing Space for Future Growth of Canopy

Proper Planting Practice Provide Adequate Growing Space For Future Growth Of Canopy



Photo 1 & 2 Trees planted too close for instant greening effect will lead to poor health and structure of trees in the long run

The Importance of Adequate Growing Space

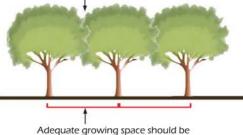
Adequate growing space is required for roots to anchor and obtain water, oxygen, and nutrients; and also for the crown to develop proper structure. In general landscape planting, trees planted too close will result in poor health and structure ¹.

When allocating space for trees, the mature form, height and crown spread of the trees as well as the purpose of the planting should be taken into consideration.

In a spacious location, trees are best to be planted to allow the full width of the mature canopy. However, trees are very often used to achieve certain purposes such as to screen a view or achieve a desirable shade etc. Flexibility should therefore be allowed for some overlapping of tree canopies to an extent that is appropriate for the situation.

Adequate Spacing

Provided that the extent of overlapping will not adversely affect the tree structure, partial overlapping of canopies is acceptable/appropriate



Adequate growing space should be provided for future growth of canopy Photo 3 & 4 Trees planted with adequate spacing will develop better form and structure

Narrow Spacing

\times

Trees grow taller

but with poor

structure when

planted too dense

health and

- significant crown competition
- poor structure as trees cannot develop to full form or well developed taper

Narrow spacing may lead to:

- susceptibility to wind or sun damage if one or more trees in the same stand die
- more disease and insect problems
- more long term stress related problem

References:

Gilman, Edward F., Trees for Urban and Suburban Landscapes, Delmar Publishers, U.S., 1997

Urban, James, Up By Roots, International Society of Arboriculture, U.S., 2008

Inadequate growing space should be

avoided for future growth of canopy

Whitcomb, Carl E., Establishment and Maintenance of Landscape Plants II, Lacebark Inc.

Greening, Landscape and Tree Management Section Development Bureau

1 Trees, however, may be planted closely together in forestry plantation to achieve the desired vegetation coverage quickly during the early afforestation stage, or in specially designed urban landscape setting to establish the initial greening effect. This type of planting should be supported with a proper maintenance plan for thinning/removal of overcrowded trees for the long term benefit of tree health and structure.