

Midway Road Trees

Council Work Session

March 6, 2018



ADDISON

- On November 3, 2017, Staff and Council walked Midway Road to look at the impacts of the Master Transportation Plan on the corridor.
- During the site visit, Council requested more information on the Master Transportation Plan's impact on the existing trees.
- Staff hired a consulting arborist to study the current health and structure of the existing trees.

Midway Road Tree Study

- Trees were inspected to determine:
 - Species
 - Size
 - Location
 - Overall Health
 - Overall Structure
 - Remaining Life Expectancy
 - Feasibility of Transplantation

- For trees more than 8' from existing curb, a suggested critical-root-zone (CRZ) radius and prognosis for survival has been added.

Midway Road Tree Study – Rating Factors

■ Health:

- Age – relative to average lifespan
- Canopy fullness / density
- Leaf size & color
- Twig elongation rates (average annual growth)
- Deadwood / evidence of dieback or loss-of-vigor
- Borers or life-threatening disease
- Vascular issues (cankers/ basal wounds / irreparable girdling)

■ Structure:

- Root or root-flare issues
- Weak trunks (“codominant” with included bark)
- Poor weight distribution / branch and trunk taper factors
- Internal decay – likelihood of failure



Sparse Canopy

Good Foliar Density



Leaf Size / Color



Irreparable girdling roots



Codominant trunks – can often be cabled and bolted, if desired – but the tree will be expensive to maintain over the long-term.

Midway Road Tree Study

- Trees to consider preserving should meet all of these criteria:
 - ‘Shade’ Tree
 - ‘Good’ Health
 - ‘Good’ Structure
 - ‘Good’ Prognosis of Survivability

Town of Addison - Midway Road Tree Inspection Worksheet										 940.759.2528 www.treeconsult.com
FID#	Species	Size - DBH or Height'	Location	Health	Structure	Remaining Life Expectancy	Transplantation Possible?	Recommended Tree Protection Zone Radius	Preliminary Prognosis for Survival After Construction	
December 19, 2017										
103	Live Oak	15	Midway - west side - 14675	Fair	Fair	20	No	Extra large	Poor	Stubby, poor twig elongation, weak, poor root space
104	Live Oak	31	Midway - west side - 14675	Good	Good	50	No	Standard	Poor	3' from wall
105	Cedar Elm	20	Midway - west side - 14675	Poor	Fair	10	No	Extra large	Poor	Large unrepairable girdling roots, 4' from wall
106	Cedar Elm	23	Midway - west side - 14675	Fair	Fair	20	No	Standard	Poor	3' from 4' grade change / retaining wall
107	Cedar Elm	20" MT	Midway - west side - 14675	Good	Fair	40	No	Standard	Fair	Codominant trunks, structurally weak, 7' from parking
108	Live Oak	21	Midway - west side - 14675	Good	Good	50	No	Standard	Good	Nice tree. Situated in a 15x15' planting bed.
109	Live Oak	19	Midway - west side - Securonix	Poor	Fair	20	No	Standard	Poor	Stubby, poor twig elongation, weak, no roof flare. Grade change.
110	Crape Myrtle	16'	Midway - west side - Securonix	Fair	Fair	20	Possible	Standard	Good	3' from parking
111	Crape Myrtle	16'	Midway - west side - Securonix	Fair	Fair	20	Possible	Standard	Good	3' from parking
112	Live Oak	25	Midway - west side - Securonix	Good	Good	50	No	Standard	Fair	Poorly pruned, Lion's-tailed, but usable. 8' from 24" grade drop/wall.
113	Crape Myrtle	20'	Midway - west side - Securonix	Fair	Fair	20	Possible	Standard	Fair	Tall and spindly

Midway Road Tree Study

- Based on the preservation criteria, only 24 trees of 238 would be considered ‘good’ health, ‘good’ structure, and ‘good’ prognosis of survivability.
- 10 of the 24 trees are adjacent to Green Hill School where the sidewalks have already been moved away from the back of curb.
- Depending on the scope of construction, whether the Master Transportation Plan, ADA improvements, or in-kind replacement, the remaining trees would likely be impacted by construction.



Midway Road Tree Study



Midway Road Tree Study



Midway Road Design Decisions

1. Proceed with the Master Transportation Plan as adopted.
2. Proceed with the Master Transportation Plan as adopted but take steps to preserve as many of the 24 trees as possible.
3. Keep the existing road layout and sidewalk configuration. Make the necessary ADA improvements and preserve as many trees as possible.

Questions?