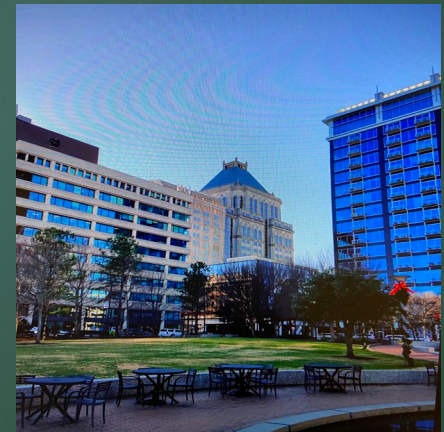


WELCOME

Landscape Ordinance Committee

MEETING 4

JULY 6, 2020



Zoom Meetings



- Please join the meeting **5 minutes before** the start time. *This provides time to troubleshoot any technical issues.*
- Please **mute** yourself until recognized by the meeting host to speak. *This minimizes disruptive background noises.*
- When you wish to speak, please:
 - a. Use the **Raise Hand** feature to be recognized by the meeting host
 - OR
 - b. Type your feedback into the **Group Chat** feature.

NOTE: If you join the meeting by telephone only, the meeting host will routinely check-in to solicit feedback. This ensures everyone is able to participate.

Committee Members and city staff agree to:

- Show up on time and be prepared to actively contribute to the work of the Committee.
- Stay mentally and physically present during meetings/work sessions.
- Collaborate to resolve problems by respectfully challenging ideas NOT the person
- Listen with an open mind, avoid interrupting and side-bar conversations.
- Offer your unique perspective and experience, ask clarifying questions and stay curious, especially about perspectives/experiences different from your own.
- Consider multiple ways to achieve desired outcomes.
- Makes decisions by majority consensus.

AGENDA

I. Welcome

II. Status Report from Sub-committee to review Approved Plant List

III. Report from Sub-committee looking at condition of trees in existing parking lots.

IV. Items for discussion:

A. Potential changes to landscape ordinance regarding size and soil volume of parking lot islands, and adding requirements for soil amendments in islands.

AGENDA

IV. Items for discussion (continued):

- B. Potential changes to landscape ordinance regarding canopy trees and understory trees in parking lots, number of trees and tree islands required, and spacing of islands, and adding list of trees appropriate for parking lots to Approved Plant list.
- C. Requirement for separation of light poles from trees in parking lots.
- D. Addition to the ordinance of a requirement that lighting plan and detailed landscape plan be submitted with TRC plan.

V. Review progress & preview agenda for next meeting on July 20th

Approved Plant List

Status Report from Sub-committee

Review of Approved Plant List to make sure the suggested plants meet the definition of canopy tree, understory tree and shrub along with the removal of any invasive species.



Existing Parking Lot Trees

Status Report from Sub-committee

Review of existing parking lots for health and condition of trees in islands and medians.



Parking Lot Islands and Medians – Area and Soil Volume

Greensboro	Charlotte	Raleigh	Durham	Winston-Salem	Fayetteville	Wilmington
200 s.f./ 7 ft. wide for 1 tree, 500 s.f./ 7 ft. wide for 3 trees,	274 s.f./ 8 ft. wide for canopy, 200 s.f./ 8 ft. wide for understory.	300 s.f./ 8 ft. wide	200 s.f. per tree/ 10' wide	600 s.f. / 7 ft. wide for canopy, 150 s.f./ 7 ft. wide for understory.	274 s.f. / 10' wide for canopy, 180 s.f./ 7' wide for understory.	216 s.f. / 12' wide

200 s.f. = 7 x 29
500 s.f. = 7 x 72

274 s.f. = 8 x 34.5
200 s.f. = 8 x 25

300 s.f.
= 8 x 38

200 s.f.
= 10 x 20

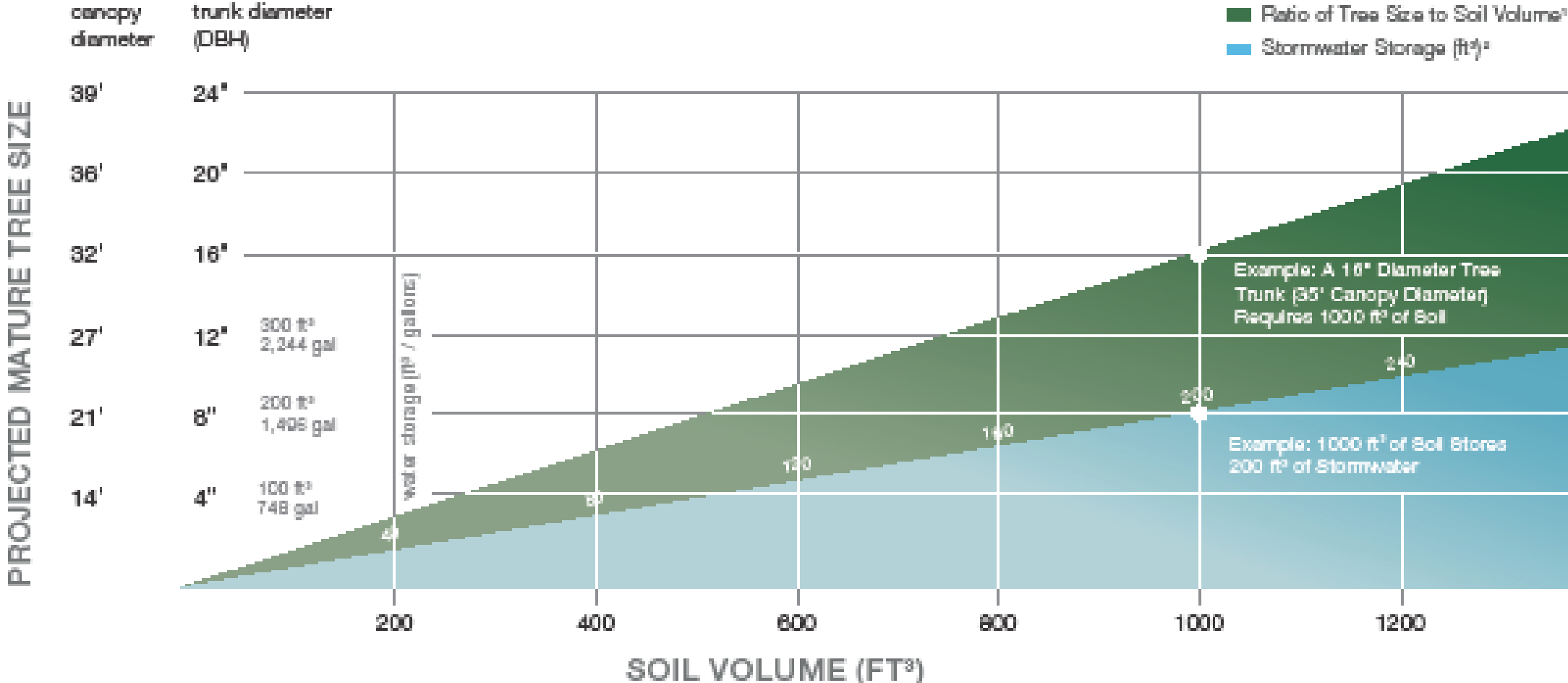
600 s.f. = 7 x 86
150 s.f. = 7 x 21

274 s.f. =
10 x 27.5
180 s.f. = 7 x 26

216 s.f.
= 12 x 18

Standard parking space is 9' x 18'. All measurements above are inside the curb – add another 1' each dimension for curb to get total island size.

HOW MUCH SOIL TO GROW A BIG TREE?



30-10-2.7 Tree Conservation and Parking Lot Plantings

For new, expanded, or rebuilt parking lots where trees are being preserved adjacent to the parking lot in order to meet the parking lot planting requirements, trees preserved in a TCA and within 8 feet of the parking lot may be used to satisfy up to 50% of the required number of parking lot trees. Tree conservation areas that are “notched into” corners or edges of a parking lot are deemed to be within the parking lot, not adjacent to it. Trees in the TCA counted toward planting yard requirements may not count for required parking lot trees. Extra trees in such locations do count. It is the landowner’s option to save trees within the parking lot. In order to do so, the critical root zone must be preserved. Credits for preserving parking lot trees are determined by the critical root zone preserved for the tree being saved (See Article 12). One tree for every 400 square feet of critical root zone preserved may be used to satisfy up to 50% of the required number of parking lot trees

Pause for Discussion

Questions, reactions, ideas?

**Proposed Ordinance
Amendment wording**



Current Soil Preparation Requirements For Landscape Yards

- 1) Soil preparation for the entire landscape yard includes the addition of 2"-3" of organic amendments tilled to a depth of eight (8) to twelve (12) inches (see COG Standard Detail). Minimum organic content of the soil must be 25%.
- 2) All Plantings in the landscape yards shall be mulched including interior parking lot islands under five hundred (500) square feet to a depth of three (3) to four (4) inches and maintained weed free thereafter

Soil Amendment Requirements for Parking Lot Islands

Greensboro	Charlotte	Raleigh	Durham	Winston-Salem	Fayetteville	Wilmington
None specifically for islands*	18" amended on-site soil or soil mix	Amendment requirements ('high quality topsoil') provided in manual, no depth given	Amendment requirements provided in manual, no depth given	Couldn't find any requirements	Soils amended 18"-24" deep	Couldn't find any requirements

***30-10-4.2 Drought-Tolerant Planting Techniques**

The following standards must be met for all required planting yards.

(A) Soil preparation for the entire planting yard must include the addition of organic amendments tilled to a depth of 8 to 12 inches.

(B) All plantings must be mulched (including interior parking lot islands less than 500 square feet) to a depth of 3 to 4 inches. The mulch must be permanently maintained free of trash and weeds.

Pause for Discussion

Questions, reactions, ideas?

**Proposed Ordinance
Amendment wording**



Number and Type of Trees in Parking Lots

Greensboro	Charlotte	Raleigh	Durham	Winston-Salem	Fayetteville	Wilmington
1 canopy tree per 12 spaces (1,944 s.f.)	1 per 10,000 s.f. impervious. 75% must be canopy trees, understory allowed only under powerlines	1 per 10 parking spaces, no less than 1 tree for every 2,000 s.f. parking area	1 per 2,000 s.f. Vehicular Use Area, also requires 1 shrub per 250/s.f of VUA	1 canopy tree per 5,000 s.f. surface area, 1 understory tree per 2,500 s.f. where overhead lines exist	1 tree per 12 spaces, 50% must be canopy	20%- 40% shading of parking lot required, depending on size of lot. Allows 15' radius for canopy tree, 10' radius for understory

Standard parking space is 9' x 18'. For Greensboro requirements, including 12' (half width of drive aisle) along frontage of 12 parking spaces = 1,296 s.f. = total 3,240 impervious per tree.

Number & Type of Trees, Distance from Cars

Greensboro	Charlotte	Raleigh	Durham	Winston-Salem	Fayetteville	Wilmington
1 canopy tree per 12 spaces (1,944 s.f.)	1 per 10,000 s.f. impervious. 75% must be canopy trees, understory allowed only under powerlines	1 per 10 parking spaces, no less than 1 tree for every 2,000 s.f. parking area	1 per 2,000 s.f. Vehicular Use Area, also requires 1 shrub per 250/s.f. of VUA	1 canopy tree per 5,000 s.f. surface area, 1 understory tree per 2,500 s.f. where overhead lines exist	1 tree per 12 spaces, 50% must be canopy	20%- 40% shading of parking lot required, depending on size of lot. Allows 15' radius for canopy tree, 10' radius for understory
100 l.f. for single tree, 130 l.f. for multiple trees in large island	40 l.f. for trees in islands, 60 l.f. for multiple trees in 8' wide medians running length of parking lot	All rows must terminate with an island with canopy tree. No more than 30 spaces between islands	50 l.f.	75 l.f. from canopy tree, 50 l.f. from understory	60 l.f. to canopy tree, 30 l.f. to understory tree	All rows must terminate in an island, no space further than 120 l.f. from a tree

Pause for Discussion

Questions, reactions, ideas?

**Proposed Ordinance
Amendment wording**



Separation of Light Poles From Trees in Parking Lots

Greensboro	Charlotte	Raleigh	Durham	Winston-Salem	Fayetteville	Wilmington
None given in ordinance, generally try to enforce 20'.	Light poles greater than 15' height.: min. 20' from tree, Light poles less than 15' height: min. 10' from tree	20 l.f. from pole to tree trunk.	15 l.f. from light to tree	No requirements	15' from canopy tree, 5' from understory tree	Couldn't find any requirements

Greensboro lighting ordinance limits parking lot light pole heights to a maximum of 35'.

Pause for Discussion

Questions, reactions, ideas?

**Proposed Ordinance
Amendment wording**



Develop List of Trees for Use in Parking Lots

- Addition to Approved Plants list.
- List of trees that can handle heat, full sun, limited root space.
- Would exclude columnar tree cultivars.
- Applicants would be required to use only trees from that list unless approved by staff. (Amend ordinance to state this requirement.)

Volunteers???

Submittal of Lighting Plan with TRC Submittal

Greensboro	Charlotte	Raleigh	Durham	Winston-Salem	Fayetteville	Wilmington
See ordinance below. No requirements for pole locations or photometrics.	Yes - required on landscape plan, which is also required with submittal	Yes - also requires detailed landscape plan with submittal	Yes - also requires detailed landscape plan with lighting & utilities shown	Yes - also requires detailed landscape plan	Yes	No requirement

30-9-6.8 Exterior Lighting Plan

All site plans must indicate, at a minimum, fixture type, pole height and any fixture shielding. In addition, a note must be included on the site plan indicating that the proposed development complies with the outdoor lighting standards of this ordinance, including compliance with the light trespass requirement in [30-9-6.6](#).

NEXT MEETING:

Monday,

July 20th @ 3pm



zoom