

Beer Frame!



Right Tree, Right Place

What the Trees have
to say about it

Jim Maloney
National Grid

“If you don’t plant ‘em small,
We’ll make ‘em small”



Our Objectives Today

- Gain a higher consciousness that Urban Trees live in a highly modified environment. Our selections should match their attributes to the un-natural setting we asking them to survive in.
- We'll explore a tree's view of RT/RP.

Let's take a look at some
Planting Sites!



Thornless Cockspur
Hawthorn

Site Conditions

- ◉ 30mph with street-side parking, lots of hardscape and storm drainage:
Moderate salt
- ◉ Compaction: High
- ◉ Moisture: decent (great aquifer)
- ◉ Soil Texture: Beautiful Sandy Loam
- ◉ pH: 7.0-7.5
- ◉ 4" granite curb
- ◉ Overhead: 50' poles



Oops!

Maybe a Ruby
Red
Horsechestnut?



Pin Oak

Site Conditions

- ◉ 30mph with no street-side parking, minimal storm drainage: Moderate to high salt
- ◉ Compaction: High
- ◉ Moisture: decent (great aquifer)
- ◉ Soil Texture: Mixed horizons, “Urban Dirt”
- ◉ pH: 7.0-7.5
- ◉ 2” concrete curb
- ◉ Overhead: Just secondary & Comm



X

Oops!



Maybe something
decurrent?

Crimson King Norway Maples



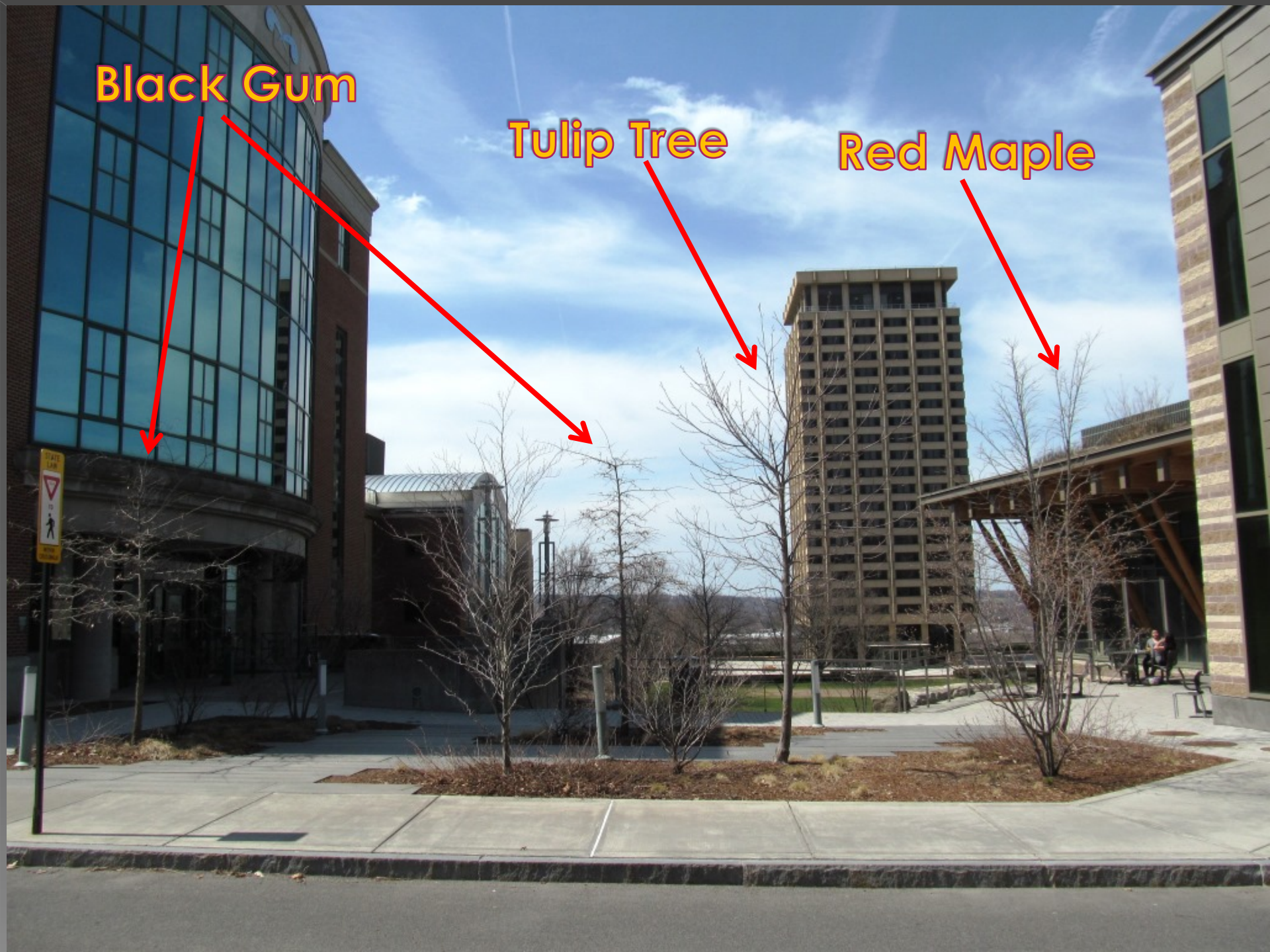
Site Conditions

- ◉ Hardscape!
 - ◉ Compaction: High
 - ◉ Moisture: Low
 - ◉ Soil Texture: Urban Dirt
-
- ◉ Really? How about some shade tolerant shrubbery???

Black Gum

Tulip Tree

Red Maple





Swamp White Oak &
Black Gum



Site Conditions

- ◉ Hardscape & Infiltration Trench
- ◉ Compaction: High
- ◉ Moisture: Dramatic swings. Enough?
- ◉ Heat Island – Reflection & stone mulch
- ◉ North/South orientation. 4hours full sun.
Full shade in afternoon.
- ◉ Limited root & crown space



So what would thrive in here?

Urban Site Index

Morton Arboretum Soil Science

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[Grand Victoria Foundation](#)

...ar research
...on ecosystem functioning in
...apes. Research topics range from basic
...and understanding the impacts of disturbance,
...agement, land use, or climate change on ecology and biogeochemical
...cycling across landscapes, to applied studies on urban soil assessment and
...remediation

Specification & Standards

nationalgrid

NY DISTRIBUTION LINE CLEARANCE SPECIFICATIONS Updated 06/10

I. Scope/Intent

- 1.1 These specifications cover the cutting, and herbicide treatment of vegetation and corresponding substations. The information obtained between the owner and National Grid. The information is used for maintenance and hazard reduction. The information is also used for enhanced construction clearing.

II. Purpose

The NY Distribution Line Clearance program are designed to provide electric service through a cost effective, integrated program. This program was first implemented in 1979, and has since attempted to improve tree outage performance over multiple years. NGRID acknowledges differences in the manner in which landowners respond to the need for routine line clearance activities, together with occasional differences in easement rights. Therefore, these specifications are designed to address:

- the minimum clearance requirements necessary to sustain safe, reliable electric service while striving to satisfy the concerns of sensitive customers,
- and the optimum clearance requirements necessary to sustain an appropriate

Those that aren't held to a standard will have no standard!

Thanks to:

- Steve Harris, City Arborist, Syracuse NY
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- Chris Manchester, Arborist, DeWitt NY

Questions?



Urban Site Index:

- ◉ <http://forestry.ohiodnr.gov/portals/forestry/urbantoolbox/ohioUSI/usipresentation-dramova.pdf>
- ◉ <http://www.masslaboratory.org/>