



North Hill Park Tree Impact Analysis

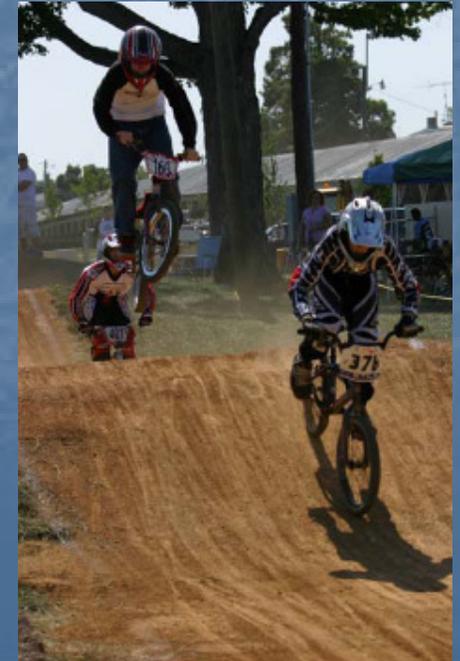
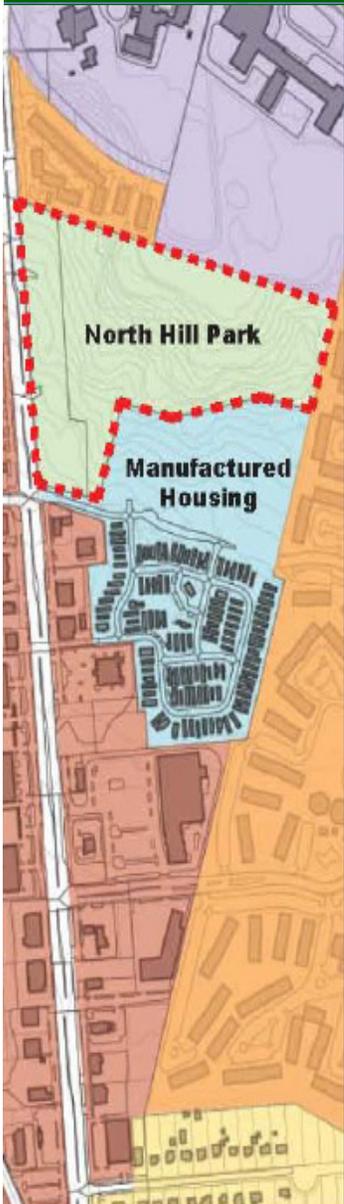
Park Authority
May 2, 2009





Features Considered

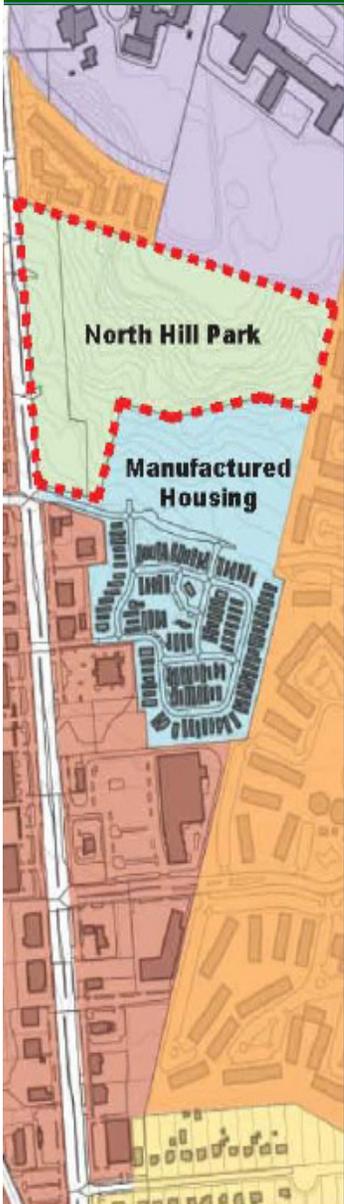
- Observation Tower
- Picnic Areas
- Off-leash Dog Park
- Amphitheater
- Tot Lot
- Playground
- Urban Plaza
- Restroom
- Garden plots
- Basketball Courts
- Community Skate Park
- BMX Racetrack





Public Concerns/Feedback

- Tree Preservation
- Invasive Plant Management
- Provide open space and natural setting in densely populated area
- Safety of park
 - Existing debris
 - Illicit uses
- Provide areas for family and community gatherings
- Integrate with adjacent residential and school uses
- Provide youth activities
- Support Richmond Hwy improvements





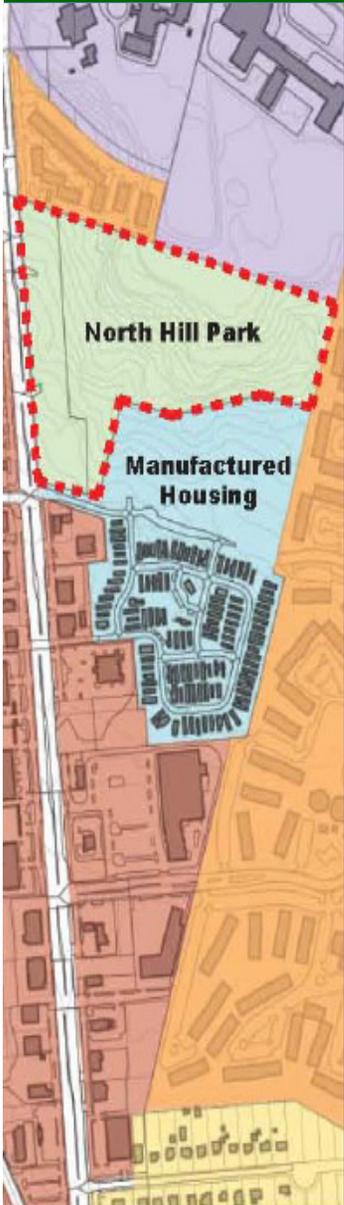
Park Purpose

- Preserve Natural and Cultural Resources; with special emphasis on large trees
- Provide Local Serving Recreational Facilities
- Provide Family and Small Community Gathering Places





Draft Conceptual Development Plan





Draft CDP: Urban Core

Good visibility from
Richmond Hwy

Park Placemaker

Signalized Entrance at
Dart Drive

Proposed Amenities

- Urban Plaza
- Parking Lot (40 spaces)
- Picnic Shelter
- Playground Area
- Basketball Court(s), up to 2 lit courts





Draft CDP: Wooded Area

Significant natural and cultural resources

Steep topography

Appropriately manage natural areas

Proposed Amenities

- Trails, both walking and biking
- Interpretive signage
- Educational resources
- Archaeological study





Draft CDP: Recreation Support Area

Integrate park with Bryant Alternative High School

- 3 recreation fields
- Education
- Early learning center

Proposed Amenities

- Treed Lawn
- Tot lot





Draft CDP: Community Picnic Area

Provide outdoor family & community gathering space

Proposed Amenities

- Picnic Shelter, if appropriate
- Picnic Areas
- Parking lot (20 spaces)
- Rt. 1 service road improvements





Draft CDP: Treed Lawns and OLDA

Provide visual amenity along highway, informal park spaces and dog park

Proposed Amenities

- Treed Lawn areas
- Off-Leash Dog Area
- Improved pedestrian network





2008 Tree Survey

Greenhorne & O'Mara performed tree inventory on North Hill site from Dec, 2007 – Feb, 2008.

Mapped all trees found onsite with 7 in + DBH

- Species
- Size (DBH)
- Condition





2008 Tree Survey: Tree Condition Summary

1,428 trees were surveyed

Conditions ranged from:

- Excellent – 5%
- Very Good – 1%
- Good – 26%
- Fair – 34%
- Poor – 28%
- Very Poor – 2%
- Dead – 4%

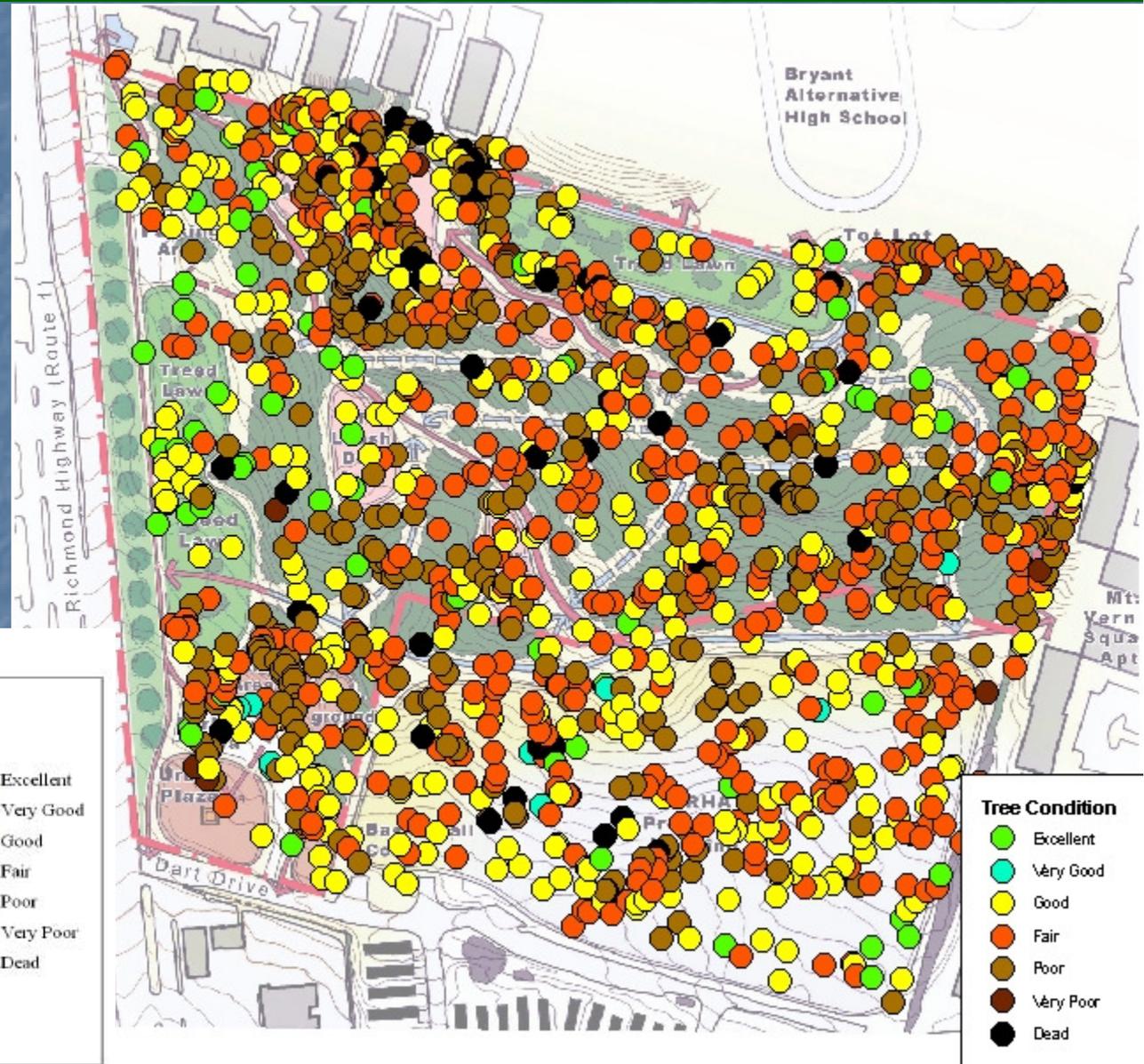
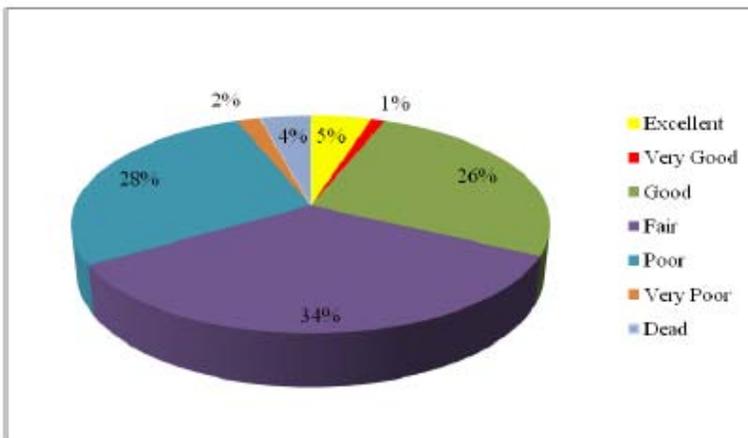


Figure 6. Percentage of Surveyed Trees by Condition





2008 Tree Survey: Area Tree Allocation

Three use areas;

Future Park

67% of all trees surveyed

HCD Housing Development

23% of all trees surveyed

Outside Area

10% of all trees surveyed



Overall:		Percentages
<i>Outside Area</i>	154	10.78%
<i>HCD Area</i>	322	22.55%
<i>Park Area</i>	952	66.67%



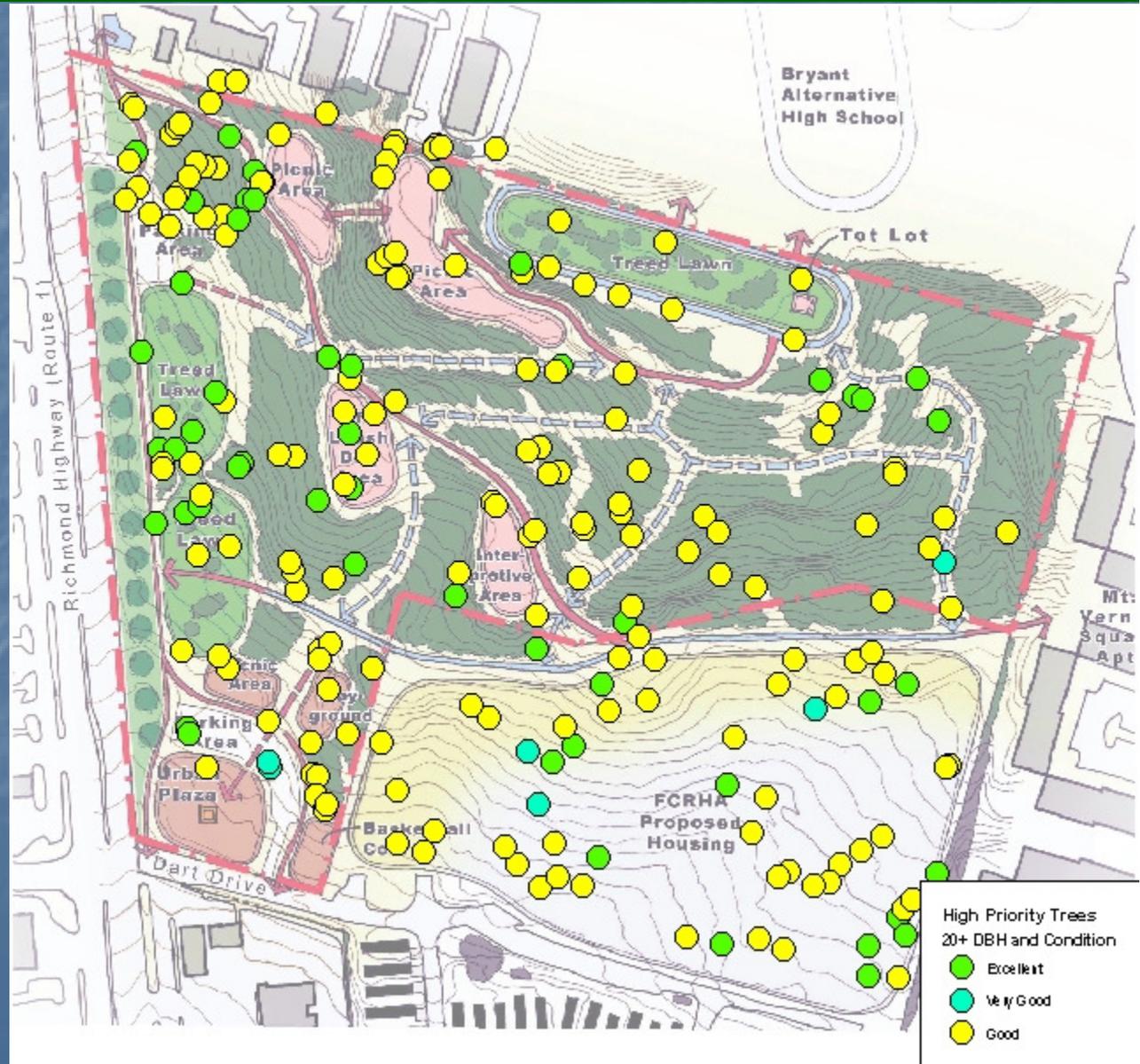
2008 Tree Survey: Tree Priorities

Identified as most important trees to preserve:

Condition: Excellent
Very Good

Size: 20+ DBH

Priority Trees	
Total Trees	1,428
E >= 20DBH	50
Pct of All Trees	3.50%
E/VG >= 20DBH	56
Pct of All Trees	3.92%
E/VG/G >= 20DBH	223
Pct of All Trees	15.62%





2008 Tree Survey: Park Development – High Risk

Three tree risk levels;

High Risk

While tree preservation may be possible, there is a high likelihood that trees will have to be removed for facility construction

- Northern Parking Lot/Road
- Urban Plaza/Parking/Courts

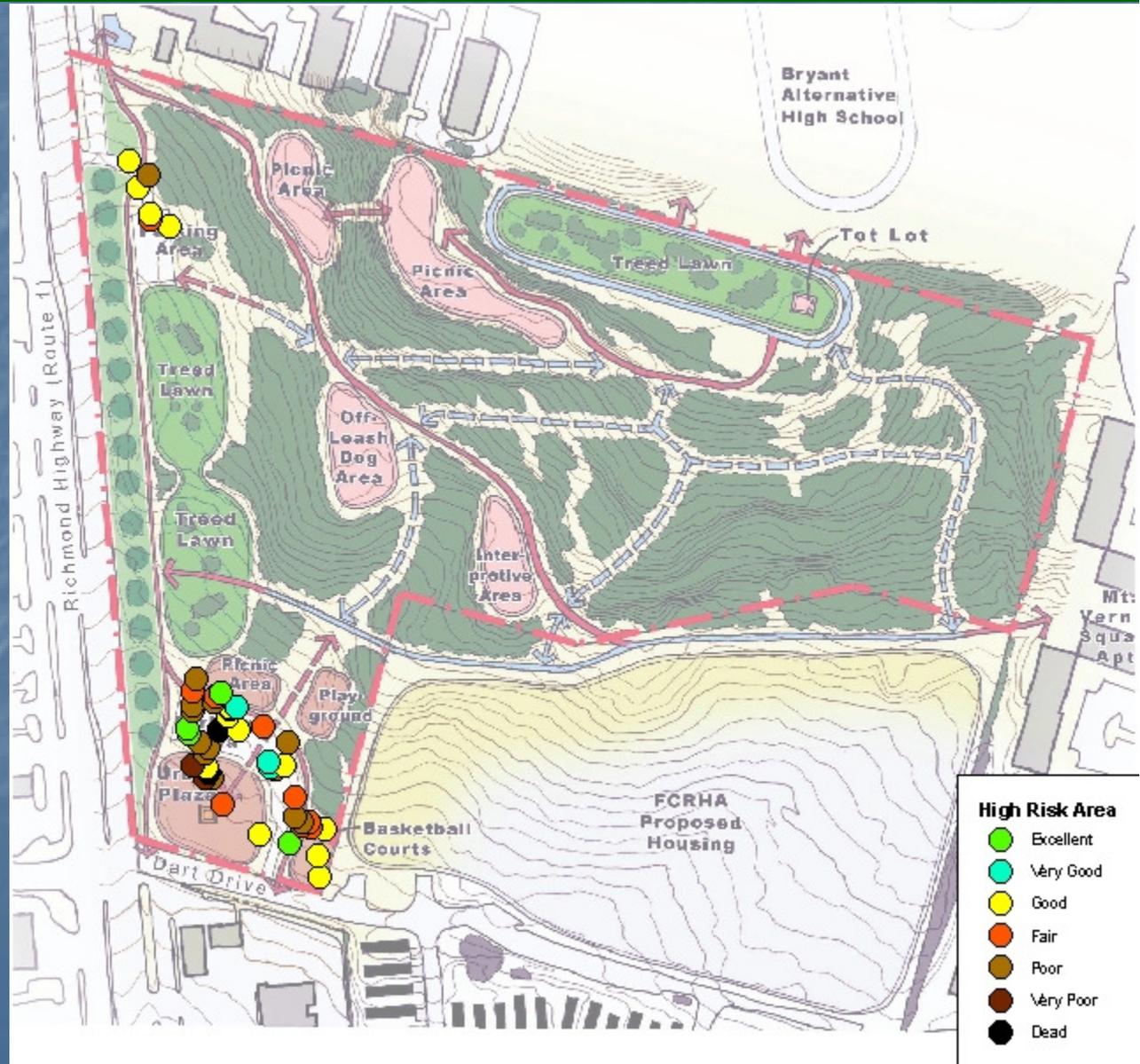




2008 Tree Survey: Park Impacts

High Risk Tree Impacts

High-Risk	
Total Trees	48
Park Pcts	5.04%
E/VG >= 20DBH	5
Pct of All Category	12.82%
E/VG/G >= 20DBH	10
Pct of All Category	6.49%





2008 Tree Survey: Park Development – Moderate Risk

Three tree risk levels;

High Risk

Moderate Risk

Tree preservation may be possible.

Proposed facilities may be located in order to avoid tree impacts or incorporate trees.

Some tree loss may be necessary for facility construction

- Lower Picnic Area
- Off Leash Dog Area
- Playground





2008 Tree Survey: Park Impacts

Moderate Risk Tree Impacts

Moderate-Risk	
Total Trees	28
Park Pcts	2.94%
E/VG >= 20DBH	2
Pct of All Category	5.13%
E/VG/G >= 20DBH	10
Pct of All Category	6.49%





2008 Tree Survey: Park Development

Three tree risk levels;

High Risk

Moderate Risk

Low Risk

Tree preservation likely.

Proposed facilities not likely to cause tree loss or located to avoid significant trees

-Treed Lawn

-Northern Picnic Areas

-Interpretive Area

-Natural Area and Trails

-Recreation Support Area

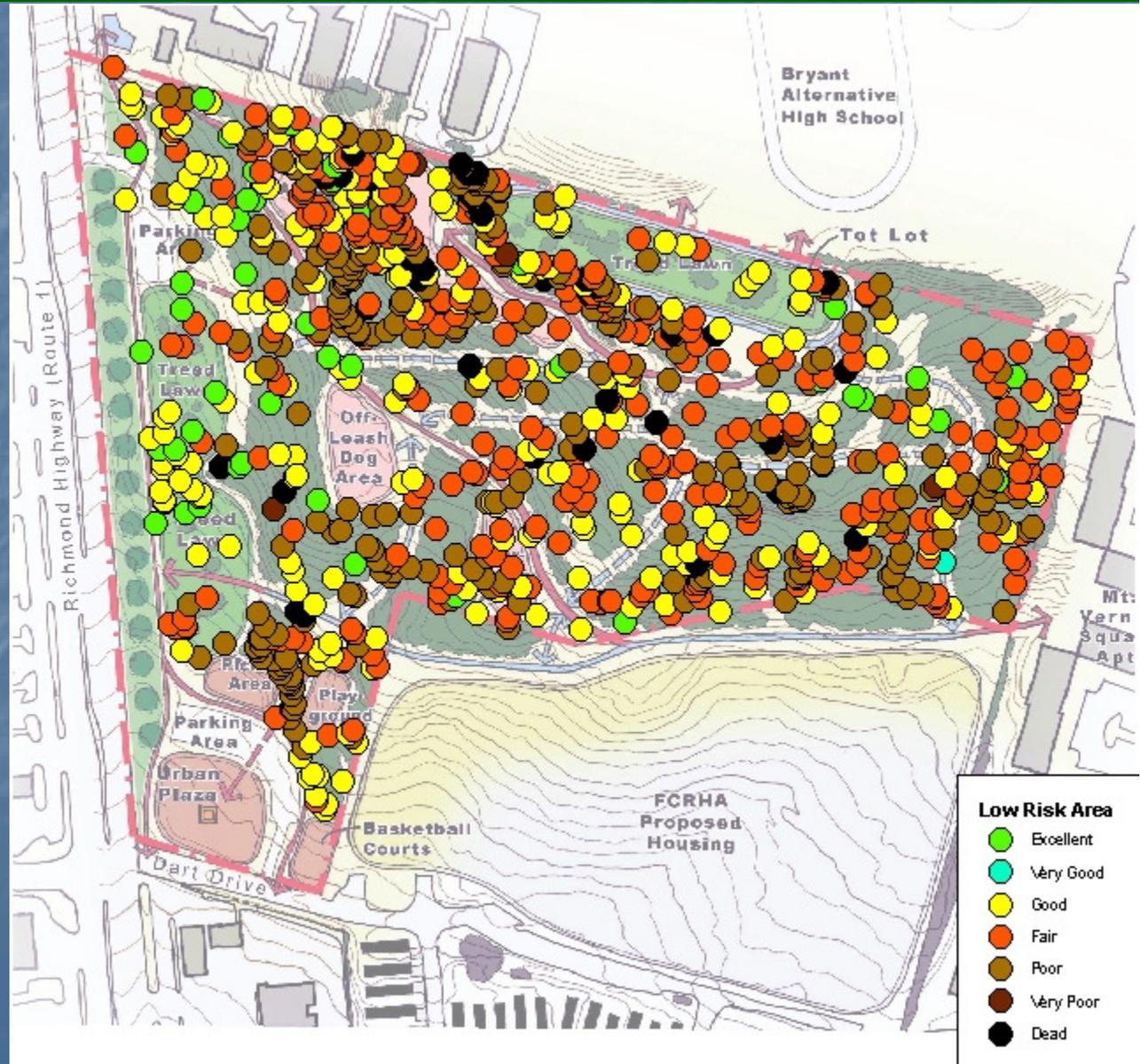




2008 Tree Survey: Park Impacts

Low Risk Tree Impacts

Low-Risk	
Total Trees	876
Park Pcts	92.02%
E/VG \geq 20DBH	32
Pct of All Category	82.05%
E/VG/G \geq 20DBH	134
Pct of All Category	87.01%





2008 Tree Survey: Summary

Future Parkland:

- Contains 2/3rd of all trees
- Of those trees, 92% are unlikely to be negatively impacted by development proposed

The highest priority trees to preserve and protect are the larger trees (20+ DBH) in the best condition (Excellent/Very Good/Good). Of these the park plan

- Protects 87%
- Will work to mitigate impacts on remaining 13% where ever possible.

