



*Happy New Year!*

## In This Issue

1. [CCHS Rivers and Revolutions @ Concord GIS](#)
2. [Map / App Gallery](#)
3. [CPW Pavement Management](#)
4. [Russ Gets the Last Word](#)

## 1. Rivers and Revolutions

### Rivers and Revolutions

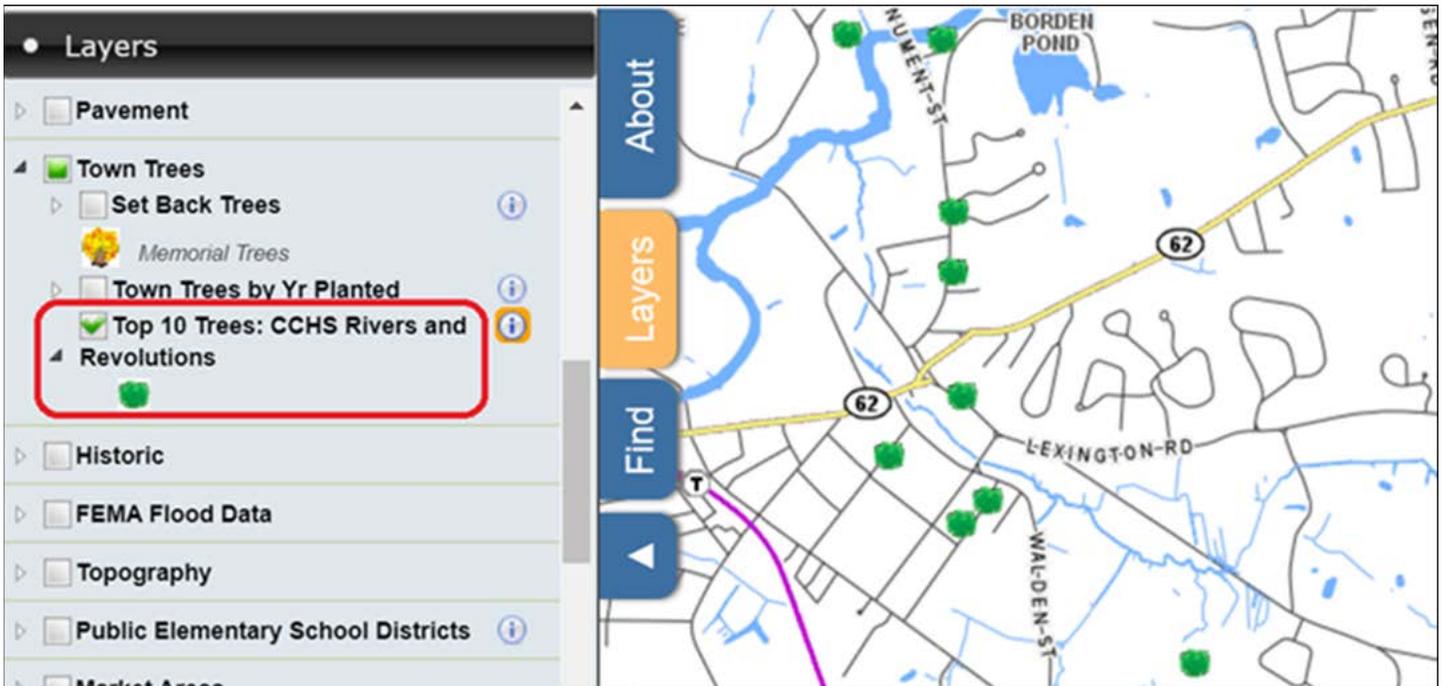
Rivers and Revolutions is an [educational program for Juniors and Seniors](#) at Concord Carlisle High School, supporting all types of learners. This non-traditional semester takes students out into the community to collaborate on an ever-changing range of projects.

R&R teacher Peter Nichol requested mapping assistance for an ongoing project, **Top Ten Trees**.



Having identified ten notable trees in Concord, a trio of R&R students wished to display their findings on Concord's Public Webmap. The team visited CMLP, where I demonstrated several different ways we could display their Top Ten Tree survey data online.

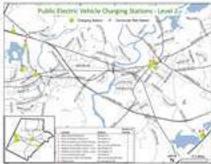
The students then completed an online form with a record for each of the trees, capturing various attributes such as species, height, and estimated age. This information, along with links to tree photos, is now available on Concord's [Public Webmap](#). Click on a tree symbol to view its attributes and an image of the tree itself.

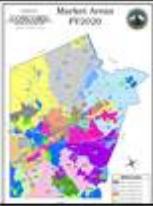


[Back to Top](#)

## 2. Map Gallery

*CTRL-Click on a thumbnail to view a full-size map*

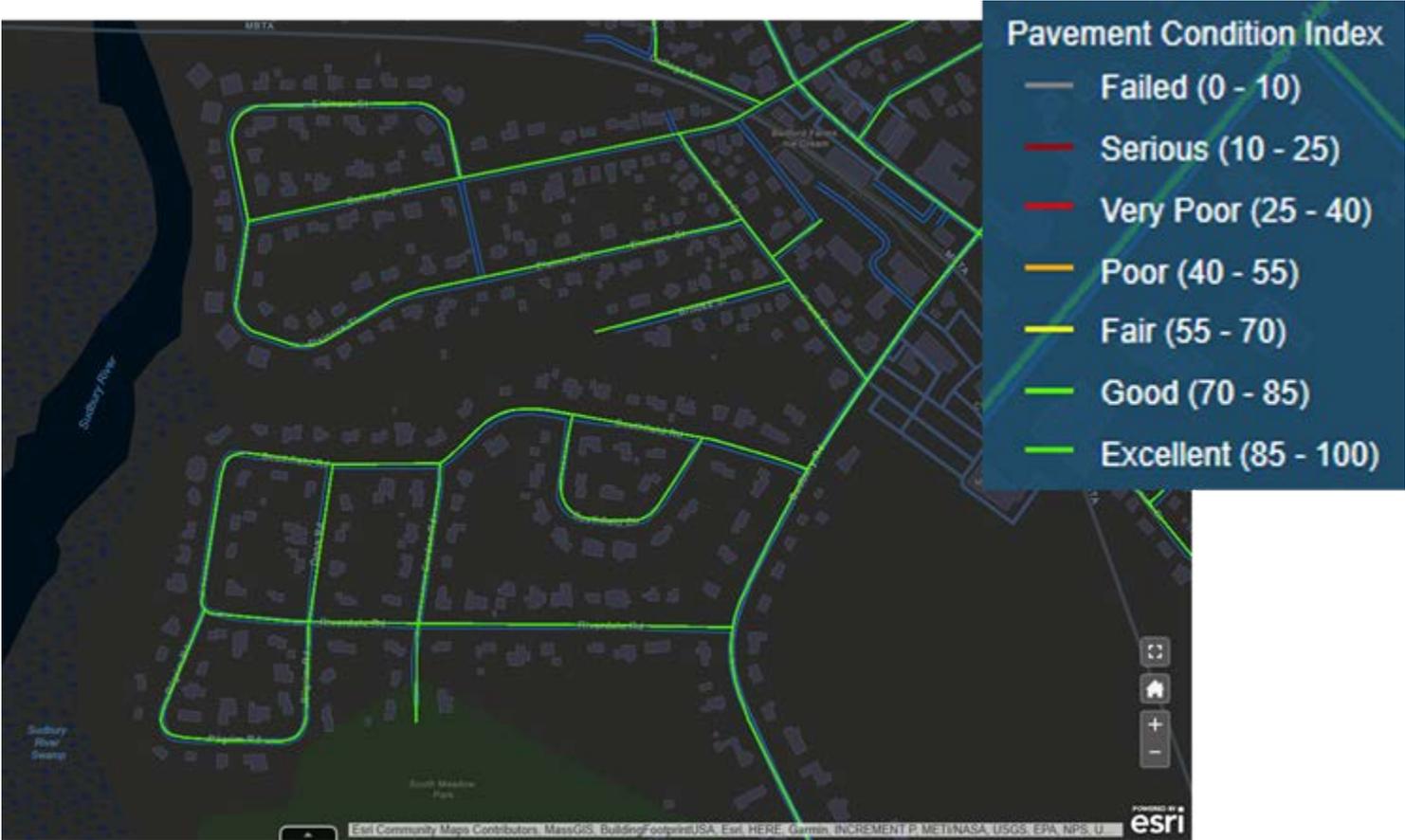
<p><b>Electric Vehicle Charging Stations</b></p>		<p>Concord continues to add EV charging stations throughout town. The most recent: Gerow Park / Rail Trail Parking on Commonwealth Ave, and Rideout Park on Laws Brook.</p>
<p><b>Municipal Buildings</b></p>		<p>New hires in Concord town government (e.g. Town Manager) often request a map of Town facilities, so now we have one!</p>

<p><b>Wetlands and Vernal Pools</b></p>		<p>Remember Matt Barrett, longtime CPW GIS analyst? NRC requested the resurrection of one of his maps – a challenge given the many changes in data structures since his time. A nice result, however!</p>
<p><b>Market Areas FY2020</b></p>		<p>Each year our Assessor reviews comparable home sales and determines, for each of over a dozen neighborhoods, what the neighborhood adjustment factor will be for valuation purposes. The Market Areas map shows neighborhoods and adjustment factors – and wins the <b>colorful</b> prize for this Gallery!</p>

[Back to Top](#)

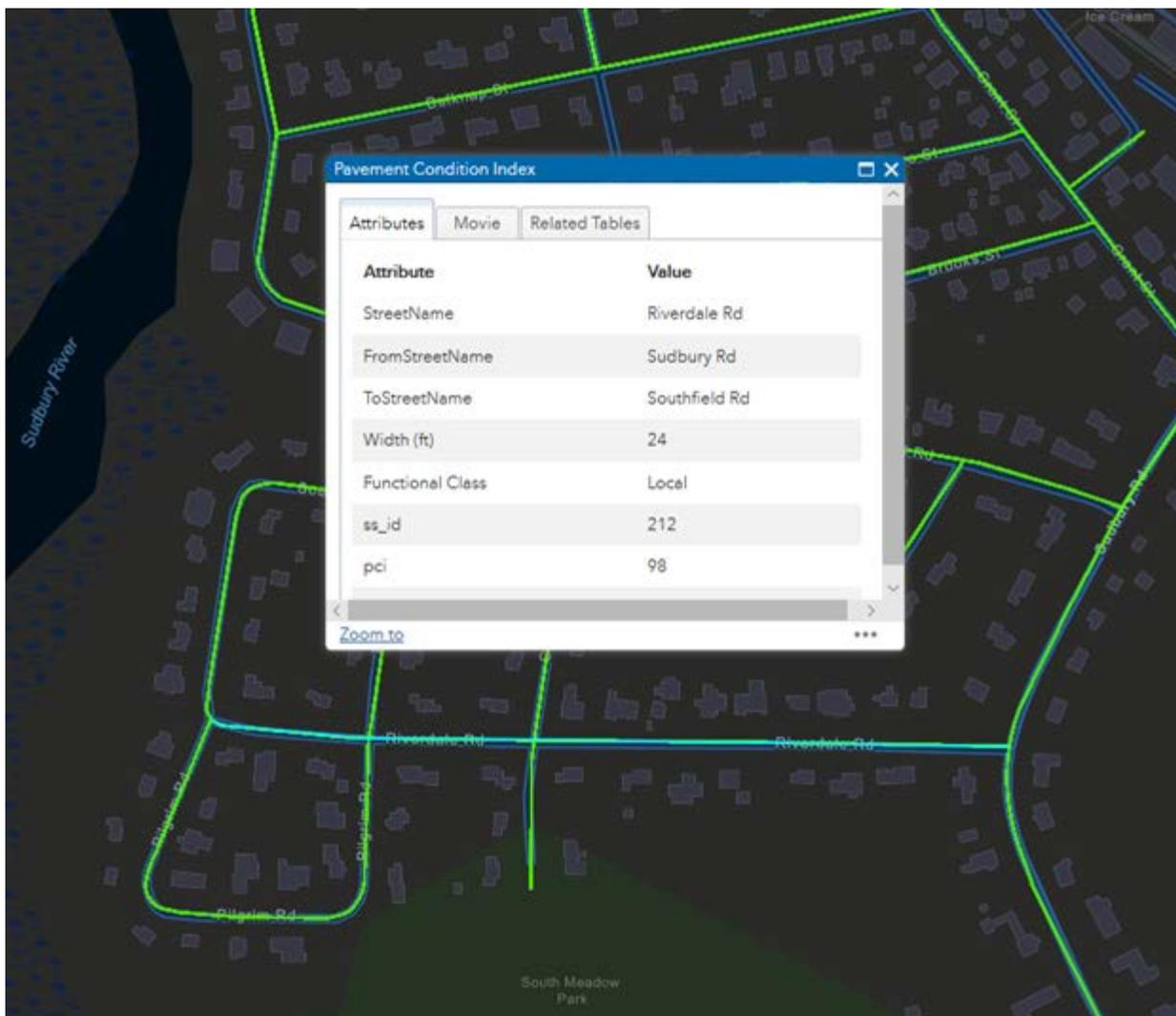
**3. CPW GIS: Roadway and Sidewalk Management**

Concord Public Works GIS is responsible for using and maintaining our new roadway and sidewalk management software, Streetlogix, from StreetScan in Burlington. This intuitive web-based program is built on ESRI’s ArcOnline platform, providing seamless integration with our assets and data layers that are also hosted on ArcOnline. Streetlogix supports viewing and editing of information on both desktops and mobile devices.



In addition to giving CPW Engineering a visual representation of the condition of Concord’s roadways and sidewalks, every road and sidewalk segment also has an associated:

- PCI rating (Pavement Condition Index, from 0 to 100)
- classification (arterial, local), and
- video.



Streetlogix also provides an ordered list of recommendations for roadway and sidewalk improvements, as well as the correct repair method to use, and a cost estimate for restoring a particular segment to a PCI rating of 100.

One of the most endearing parts of living in New England is the constant battle of maintaining our roadways! This software enables our engineers to proactively plan improvements for future years and the estimated deterioration that will occur on each segment annually. Real-time infrastructure status and an informed and accurate plan of action for future roadway management is crucial for our Engineering Division, and will continue to be utilized for many years to come.

Public Works GIS has also been working on numerous other tasks including:

- Inventorying and updating all our Water/Sewer/Stormwater asset layers for data quality assurance
- Creating and implementing winter snow and sanding routes for our roadways and sidewalks
- Completing our bi-annual Hydrant Flushing compliance program *via mobile devices*
- Completing our annual Catchbasin Cleaning program *via mobile devices*

- Finishing all Right of Way and Driveway Permit applications
- Maintaining ADA compliance using ESRI software
- Establishing a prototype of a public-facing Capitol Projects Viewer

CPW GIS continues to train and inspire staff to be technology power users, preparing every division for future technology changes.

- *Ben Griffiths*

[Back to Top](#)

#### 4. Russ: The Last Word

This will be my last official contribution to the GIS Newsletter as I will be retiring in January. Sad to go, but I have a couple more careers in me yet (maybe). Time to get started! I may be on my farm, but I'll still be "out standing in my field"...



It has been a pleasure working with you in Concord -- I have Thorough-ly enjoyed meeting and ~~conspiring~~ collaborating with everyone in the different town Departments when I got the chance. That, to me, is the best perq of being in a service-oriented field: We get to meet and assist the most interesting people! True, being in IT, I've done most of my job from my cube in the Light Plant, so sometimes I 'got to know' you without knowing your face, but even that has been rewarding whenever I could solve a problem for you. Life is short – so do good work, love and respect one another, and do more with our GIS, we have barely tapped its potential!

- *Russ Gaulin*

*GIS Application Integration Program Manager  
Concord IT Department*

[Back to Top](#)