ROCKLAND P.L.U.S PLANNING LAND USE WITH STUDENTS

Visit #2

Considering Your Community & Important Planning Elements



Assess Both Your Local Community & The County

Score of 5 is highest

Score of 1 is lowest

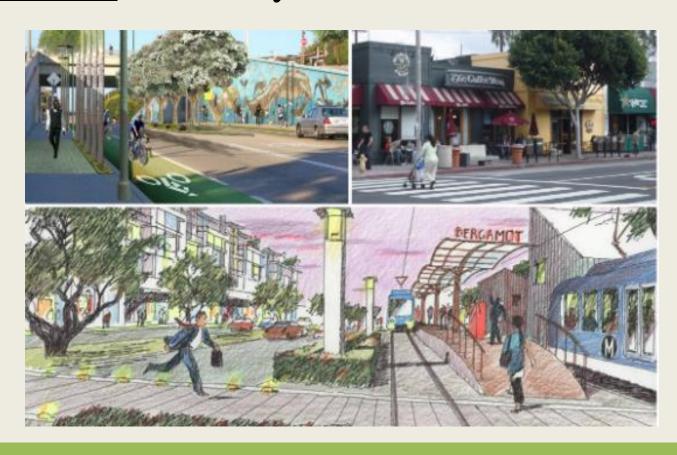
Community Feature – How does your community rank in these categories?	Community Strengths Rank: From 1 - 5	Comments & Examples of Strengths & Challenges In Local Community	Application to S.E.E.E. Sustainability Spheres: Social, Environmental, Equitable, Economic
Community Character: Places of Historical Significance/ Arts/ Theatres			
Demographic Diversity, Equity, & Inclusion: diversity of people & cultures included in all aspects of living and working in the community. Equitable access to community resources.			
Housing/Affordability/Mix of Housing: Condos/ Apartments/ Single Family Homes/ Options for all stages - Singles/ Families/ Retired			
Transportation/Accessibility/Walkability: Trains & Buses/ Complete Streets/ Sidewalks/ Safe Roads/ Bike Trails/ Safe Crosswalks/ Walking Paths connect to stores & services			
Health & Wellness: Healthy Food Choices/ Farmers Markets/ Exercise opportunities/ Preventive treatment/ Accessible Clinics & Hospitals / Health Education available			
Social/Recreation: Opportunities across ages & prices: children/teens/adults/seniors			
Wilderness: Undeveloped Areas/Open Space to parkland			
Environmental Awareness, Water & Energy			
Conscious Community Awareness of Stream Protection/ Water Conservation & Management/ Recycling/ Energy Conscious & Energy Savings (i.e. solar; automatic light switch off)/ Green Building requirements			
Education & Employment Schools available for all stages (pre-schools through college level; internships) and a range of opportunities from entry level to professional jobs.			
Safety: Street Lighting/ Fire and Police departments/ Residents Feel Safe in their community			



One way is through actively being a 'Climate Smart Community'

Climate Smart Communities

How has your community changed or become more <u>climate smart</u> in recent years?





One way is through actively being a 'Climate Smart Community'

Climate Smart Communities

Examples of a "Climate Smart" Community:

- Green Infrastructure
- Complete streets
- Design for electric vehicles
- Increase public transit& carpooling

City Planning

Community Engagement

- Community Task Force of Stakeholders
- Include youth voices
- Education to the Community

•Green space to promote health and wellness (esp. facing COVID-19)

- Natural resource inventory
- Local tree planting
- Preserve natural areas

Ecosystem Energy
Services

- Community solar
- Lighting upgrades
- Renewable Energy Certificates



One way is through actively being a 'Climate Smart Community'

Climate Smart Communities

Examples of a "Climate Smart" Community:

- Green Infrastructure
- Complete streets
- Design for electric vehicles

- Community Task Force of Stakeholders
- Include youth voices
- Education to the Community

NYACK

Rockland's first Bronze Certified Climate Smart Community!

- Municipal buildings currently use 100% green electricity sources
- Installing new LED streetlights to cut 68% of their lighting energy needs
- **EV** charging stations
 - •Green space to promote health and wellness (esp. facing COVID-19)
 - Natural resource inventory
 - Local tree planting
 - Preserve natural areas

Services

- Community solar
- Lighting upgrades
- Renewable Energy

Certificates

Planning Concepts & Planning Cards

Environment (Enhancing Resources



Integrate Wildlife Habitat with Green Space

What is it:

- Creating a wildlife habitat such as using native wetland plants to enhance an existing wetland, or creating a small pond in your dedicated green space.
- Creating connections to existing water ways, and streams, and planting native plants with winter berries for native birds

Fast Facts:

- Helps reverse the effects of habitat loss due to development
- Helps reinstate native species where invasive ones have taken over
- Attracts pollinators critical to habitat Community Benefits:
 - · Aesthetically pleasing
 - Bring wildlife back to the area and enjoy the ecosystem functions they provide

Use of the Planning Cards

- The borders are color coded by category
- The front titles can be the same but the backs are different tools and include:
 - Definition
 - Fast facts
 - Benefit/cost savings
- Categories often cross reference to other categories with a small letter on the upper right by the photo.
- The upper left includes from 1 to 5 dollar signs, representing a relative cost for inclusion.

Environment Enhancing Resources



Conservation of Trees and Plants on Property

What is it:

 Protecting and preserving trees and plants that are already on the property

Fast Facts:

 The trees and plants that are already located on the property are part of the ecosystem of that area and provide important benefits like carbon storage, shade, habitat, and slow water absorption

Community Benefits:

- · Aesthetically pleasing
- Trees provide natural shading and can reduce the "heat-island" effect from extensive paved areas
- Trees and plants provide 'ecosystem services' such as nutrient cycling, soil preservation, and habitat for wildlife

The cards cover a range of planning topics

water

Pervious Pavers



Pervious Pavers

What is it:

- Paving material that allows stormwater to be absorbed through its surface and put back into the ground below, rather than run-off into a storm drain system.
- Can be used to pave sidewalks, parking lots, bike paths, etc.

Fast Facts:

- Decreased run-off means decreased soil erosion and less sediments and pollution winding up in watersheds
- Increases infiltration of water

Cost Savings:

- Can soak up as much as 70% to 80% of annual rainfall.
- No need to put in detention pond or other storm management solution—more property to work with.

energy

\$\$\$ Using the Sun



Rooftop Solar Panels and ² Daylighting Buildings

What is it:

- Solar panels on the roof allow the sun to be used for energy
- Daylighting buildings is the use of large, strategically placed widows to take advantage of the sun's light throughout the day

Fast Facts:

- Enough sunlight falls on the earth's surface every hour to meet world energy demand for an entire year.
- Daylight is beneficial to mental health Cost Savines:
 - reduce dependence on non-renewable resources for energy
 - daylighting also reduces electricity bills as it gets rid of the need for lights to be on inside during the day

transit

Transit Making Connections





Transit Connections (4)

What is it:

- Bus and train routes that make transit easy for people to navigate and travel within and between towns/ the county without relying on a car
- At train stations there are also bus stops and at bus stops there is bike storage, with connections to bike lanes, and walkable sidewalks

Fast Facts:

 Overall, public transit saves the U.S.
 4.2 billion gallons of gasoline annually (American Public Transit Association)

Community Benefits:

- Cleaner air/ fewer emissions from the decreased individual car usage
- Easier for community members to get to school, work, doctor's appointments, etc.

The cards 'hit the highlights' but many more benefits exist for each topic!

Vegetated Natural Areas & Green Infrastructure:

- Provide habitat
- **Reduce** polluted runoff
- Clean & Cool the air



- **Fewer emergency asthma** attacks
- Increase equity in the fight against COVID-19
- Reduction in crime and violence



Rockland Country Club, Sparkill Green Roofs





Nyack Memorial Park, Nyack

Porous Pavement





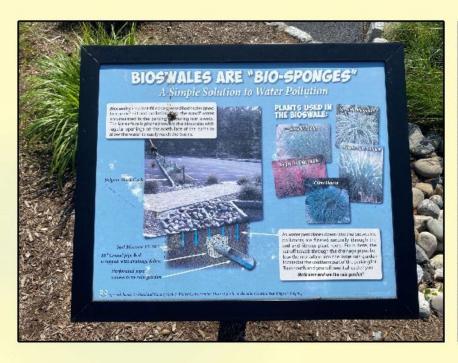
Bowline Point Park, Haverstraw





Valley Cottage Library

Rain Garden, Vegetated Swales

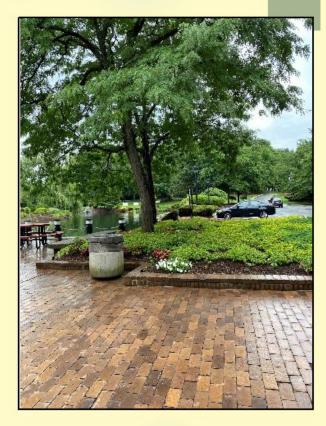




Home for Heroes, Pearl River

Bio-Retention Area





Tappan Zee High School

Rain Gardens, Grass Swale, Conservation Area, Porous Pavement







Bonus: Trees for Tribs



Trees for Tribs is a NYSDEC program that improves water quality and prevents flooding. These trees are stream buffers, another form of green infrastructure.

Children's Park in Ramapo

Green Infrastructure Additional Example



Rain Barrels



Maintaining Original Trees & Shrubs

Vegetated Islands for 'run on'





Repurposing for New Uses: The Filling Station & The Market, Rte. 9, Palisades



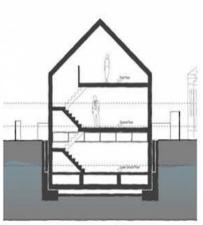
Net Zero Building, AGU Science Organization in D.C.



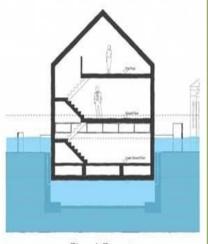
(L) Bus Rapid Transit Design (R) 1st Solar Electric Bus



Amphibious House near Marlow, River Thames, U.K.







Flood Event

Resilient waterfront design

Your Site Information

- Consider your site location & orientation
- What are the community/county strengths you want to build on or link to
- What are the weaknesses you identified that you can help address
- Consider the history & if there are pieces you can amplify or preserve
- S.E.E. the space Social, Equitable, Economic and Environmental Strengths & Challenges