

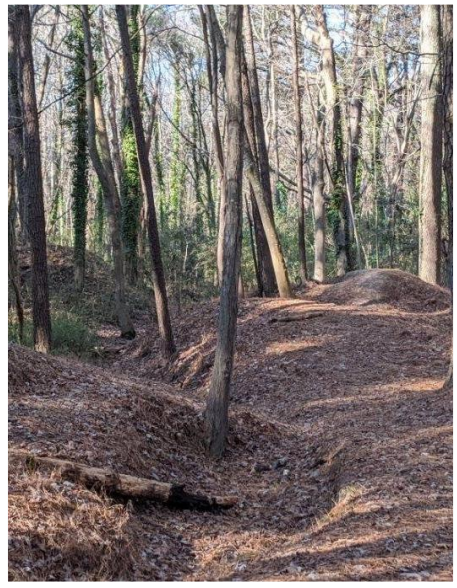
The background of the image is a photograph of a natural landscape. It features a dense forest of tall, thin trees, likely pines or cypresses, with green foliage. In the foreground, there is a field of tall, dry, brown grasses. The overall scene is captured in a slightly desaturated, naturalistic style.

# **Marshview MTB Project**

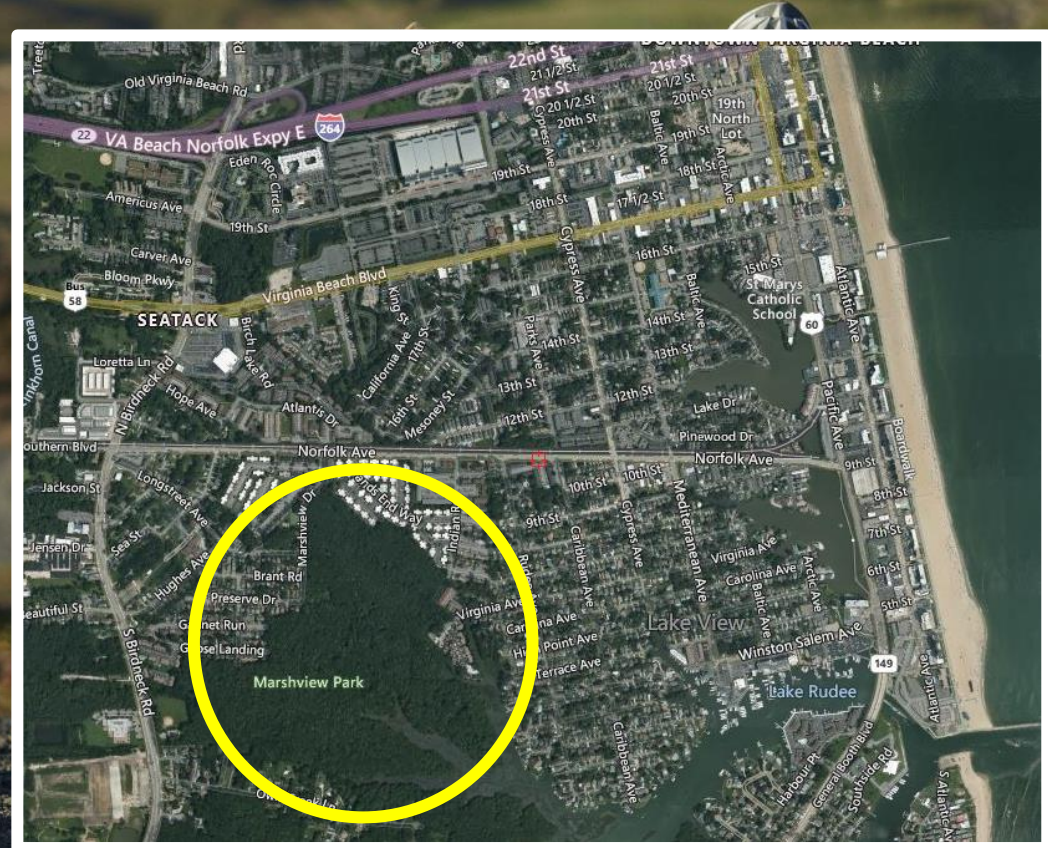
**City of Virginia Beach Parks & Recreation  
in partnership with  
Eastern Virginia Mountain Biking Association**



On September 14<sup>th</sup>, 2020 City of Virginia Beach Parks & Recreation Staff consisting of members from Planning, Design & Development and Park & Landscape Services met onsite at Marshview Park with the EVMA Vice President and EVMA trail captains. Here, they inventoried the existing trails and began discussion on future possibilities.



Given the desirable topography for Mountain Biking, the abundance of pre-existing social trails, and the proximity to the Virginia Beach Oceanfront, Marshview Park is an excellent location to establish a formal MTB trail system with varying levels of difficulty to serve all users ranging in experience.



EVMA currently maintains multiple MTB trails throughout various parks on the Hampton Roads peninsula. They also maintain Indian River Park in Chesapeake, which is one of the only MTB trail systems on the southside of Hampton Roads.



EVMA and Parks & Recreation will follow the International Mountain Bicycling Associations Standards for Trailbuilding and Rules of the Trail for the trail system at Marshview Park.

*Responsible Riding*

IMBA Rules of the Trail | IMBA.COM



**Respect the landscape**

Respect your local trail builders and be a good steward of the physical environment. Keep singletrack single by staying on the trail. Practice Leave No Trace principles. Do not ride muddy trails because it causes rutting, widening and maintenance headaches. Ride through standing water, not around it. Ride (or walk) technical features, not around them.

**Share the trail**  
 Most of the trails we ride are multi-use. Mountain bikers yield to horses and foot traffic, and descending riders yield to climbing riders. This yield triangle has been formally adopted by land managers since the late 1970s and is a significant reason why we have the access we do. There are some regional differences and unique rules on single-use, directional mountain bike trails—know the code where you ride. Be nice. Say hi.



**Ride open, legal trails**

Poaching trails, building illegal singletrack or adding unauthorized trail features are detrimental to our access. Poorly-built features could also seriously injure other trail users. If you believe there aren't enough trails or variety near you, it's time to get involved. Your engagement will be welcomed because it takes a village to create, enhance and protect great places to ride.



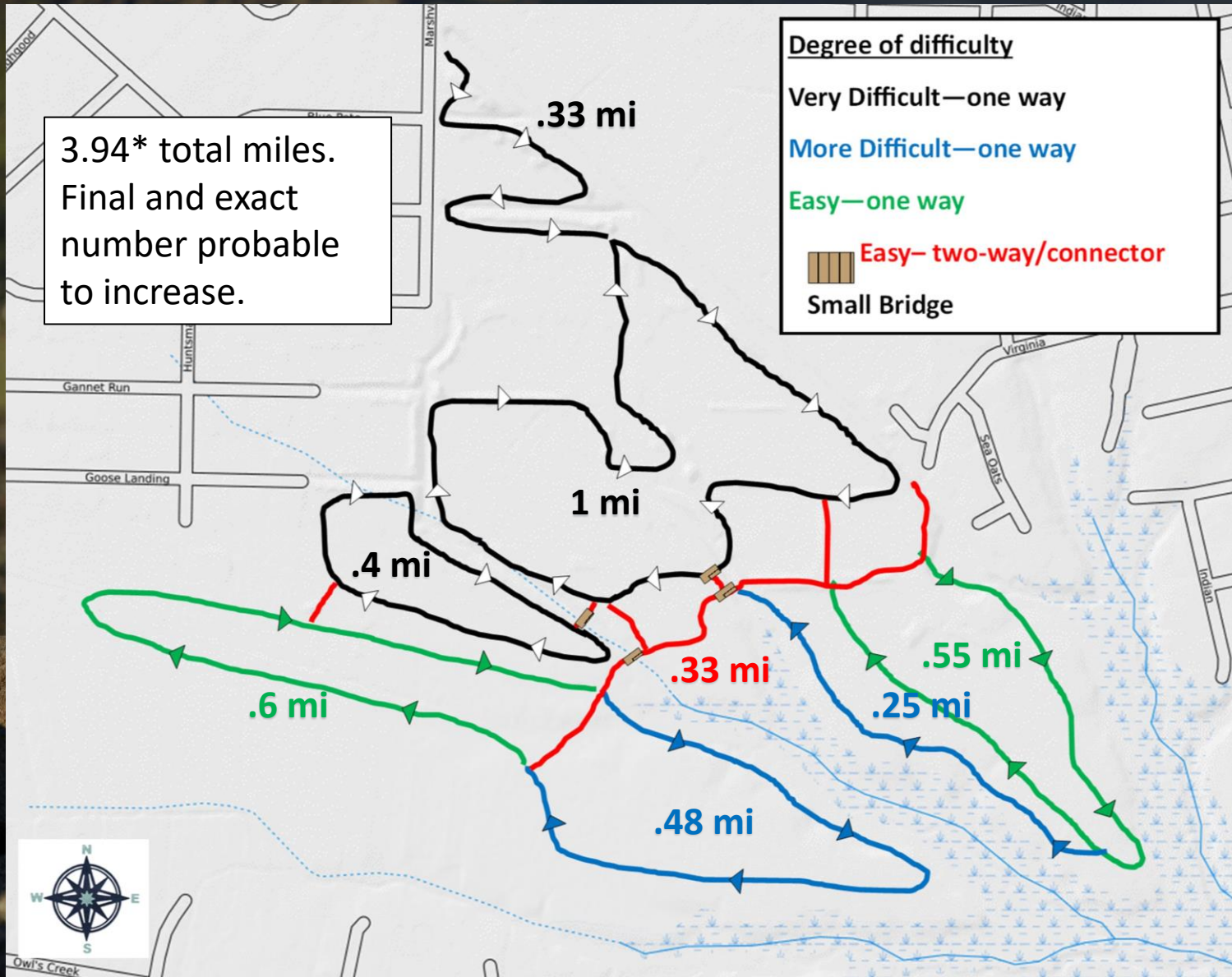
**I·M·B·A**  
 International Mountain  
 Bicycling Association

**Trailbuilding  
 Basics**



Sponsored by Subaru of America






Pre-liminary trails are conceptual and not final.



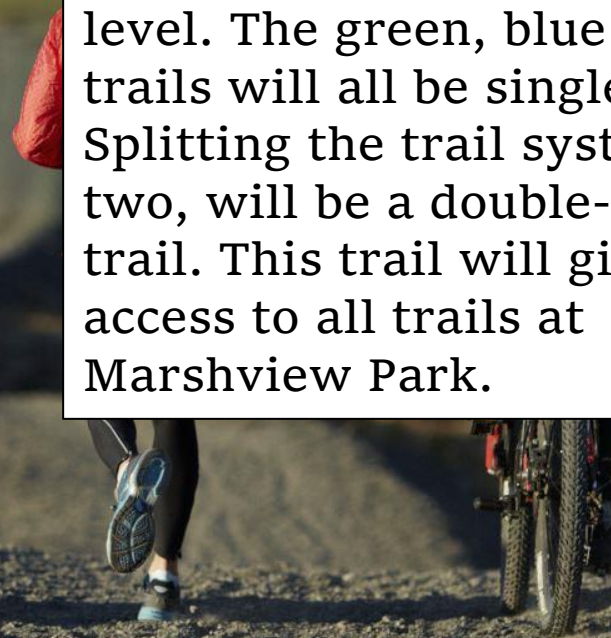
The proposed trails have been surveyed and flagged by Park & Landscape Services and Trail Captains with EVMA. The trail system at Marshview will include two short green circle/easy trails (one near the front and one at the back of the park), two blue square/more difficult trails that follow the rolling topography near the water, and one large loop and one small loop that are the black diamond/most difficult in park. These trails will follow berms and ditches in the center of the park.

# IMBA Trail Difficulty Rating System



	 EASIEST WHITE CIRCLE	 EASY GREEN CIRCLE	 MORE DIFFICULT BLUE SQUARE	 VERY DIFFICULT BLACK DIAMOND	 EXTREMELY DIFFICULT DBL. BLACK DIAMOND
TRAIL WIDTH	72" (1,800 mm) or more	36" (900 mm) or more	24" (600 mm) or more	12" (300 mm) or more	6" (150 mm) or more
TREAD SURFACE	Hardened or surfaced	Firm and stable	Mostly stable with some variability	Widely variable	Widely variable and unpredictable
AVERAGE TRAIL GRADE	Less than 5%	5% or less	10% or less	15% or less	20% or more
MAXIMUM TRAIL GRADE	Max 10%	Max 15%	Max 15% or greater	Max 15% or greater	Max 15% or greater
NATURAL OBSTACLES AND TECHNICAL TRAIL FEATURES (TTF)	None	Unavoidable obstacles 2" (50 mm) tall or less  Avoidable obstacles may be present  Unavoidable bridges 36" (900 mm) or wider	Unavoidable obstacles 8" (200 mm) tall or less  Avoidable obstacles may be present  Unavoidable bridges 24" (600 mm) or wider  TTF's 24" (600 mm) high or less, width of deck is greater than 1/2 the height	Unavoidable obstacles 15" (380 mm) tall or less  Avoidable obstacles may be present  May include loose rocks  Unavoidable bridges 24" (600 mm) or wider  TTF's 48" (1,200 mm) high or less, width of deck is less than 1/2 the height  Short sections may exceed criteria	Unavoidable obstacles 15" (380 mm) tall or less  Avoidable obstacles may be present  May include loose rocks  Unavoidable bridges 24" (600 mm) or narrower  TTF's 48" (1,200 mm) high or greater, width of deck is unpredictable  Many sections may exceed criteria

These variety of trails will follow the IMBA Trail Difficulty Rating System. This wide range of difficulty will allow beginners and experts both find a trail that fits their skill level. The green, blue and black trails will all be single-track. Splitting the trail system in two, will be a double-track trail. This trail will give riders access to all trails at Marshview Park.



## Single-track



The MTB trails at Marshview Park will either be 'single-track' or 'double-track' trails.

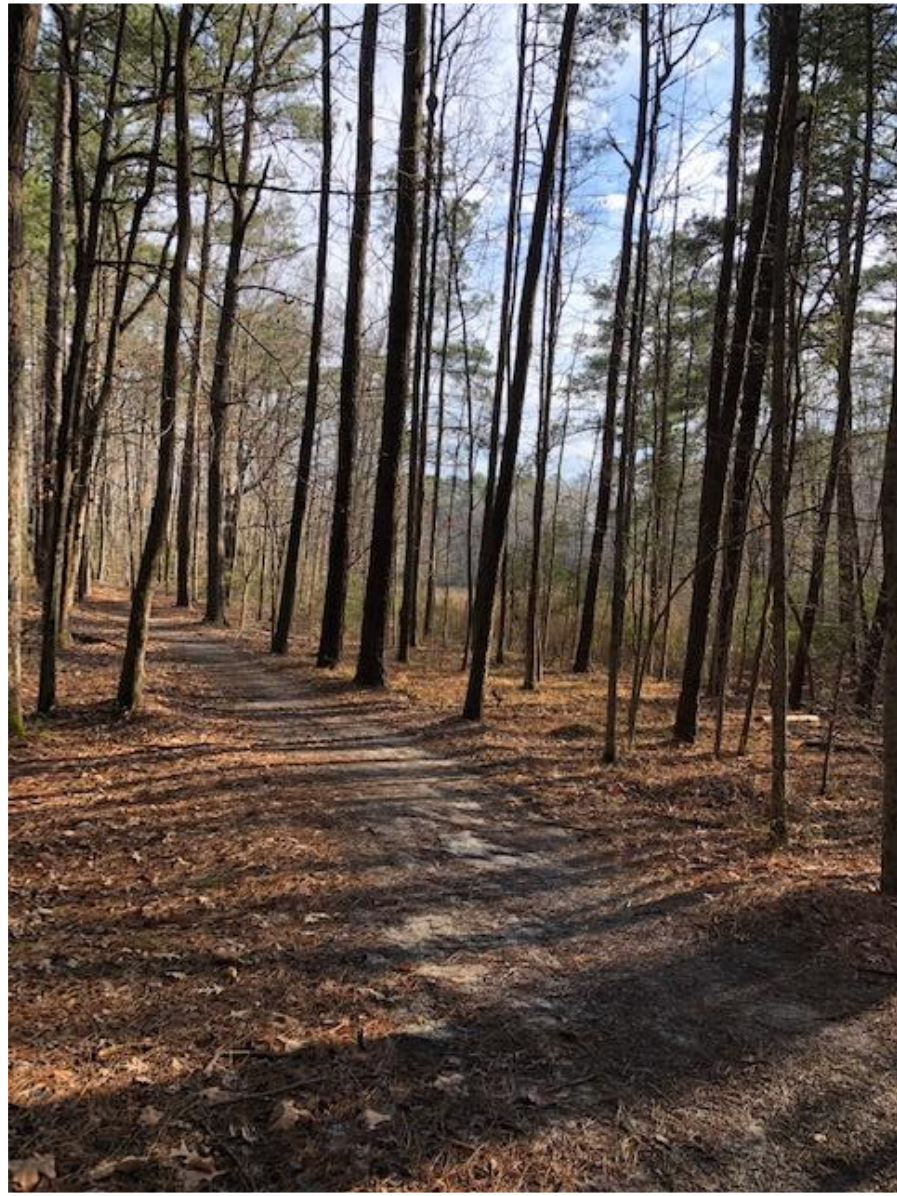
Single-track refers to the width of the trail being an average of 24"-30" or the width of one bicycle. These trails are narrow, and bicycles are permitted to ride in one direction. Single-track trails can vary in length and difficulty.

These trails will be connected by double-track trails. Double-track trails average 48" or more in width or enough for two bicycles side by side. On these trails' bikes can go either direction. This gives bikers the option to connect multiple trails for the ultimate and custom experience. The double-track trails at Marshview Park will not only be wide, but the degree of difficulty will also be easy. This will allow riders of all skill-levels to access trails throughout the park.

## Double-track



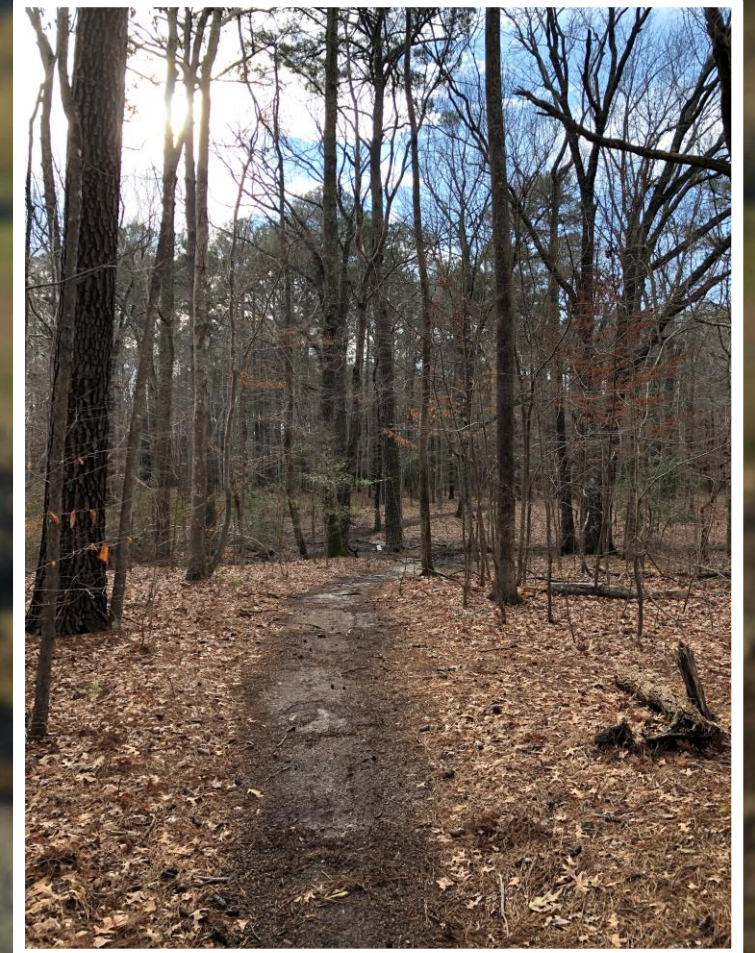




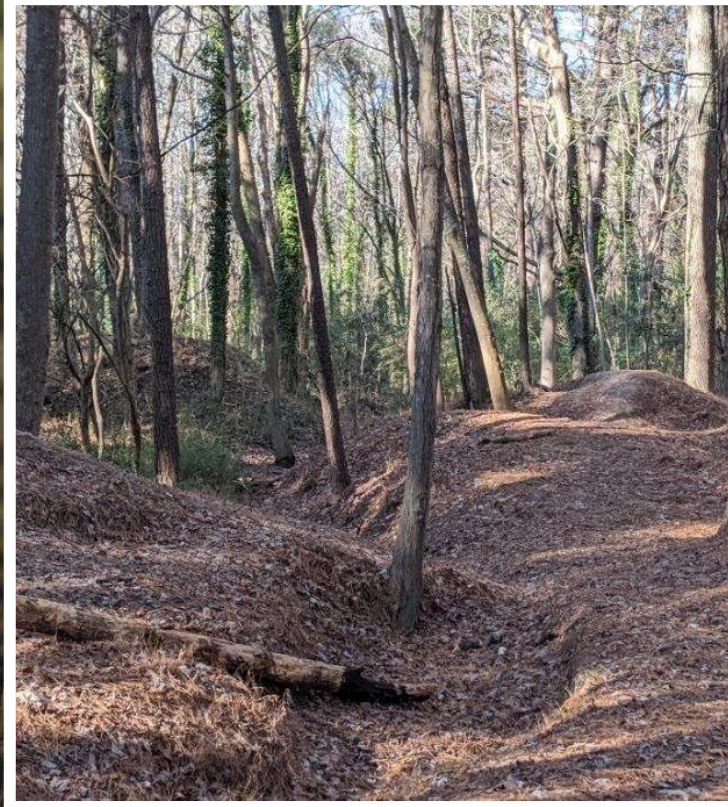
Easy Green Circle trails will be mostly flat, firm and stable single-track. These trails will be at least 36", slightly larger than the blue and black single-track trails. This will give mountain bike beginners plenty of room to operate as they build their confidence for blue trails.



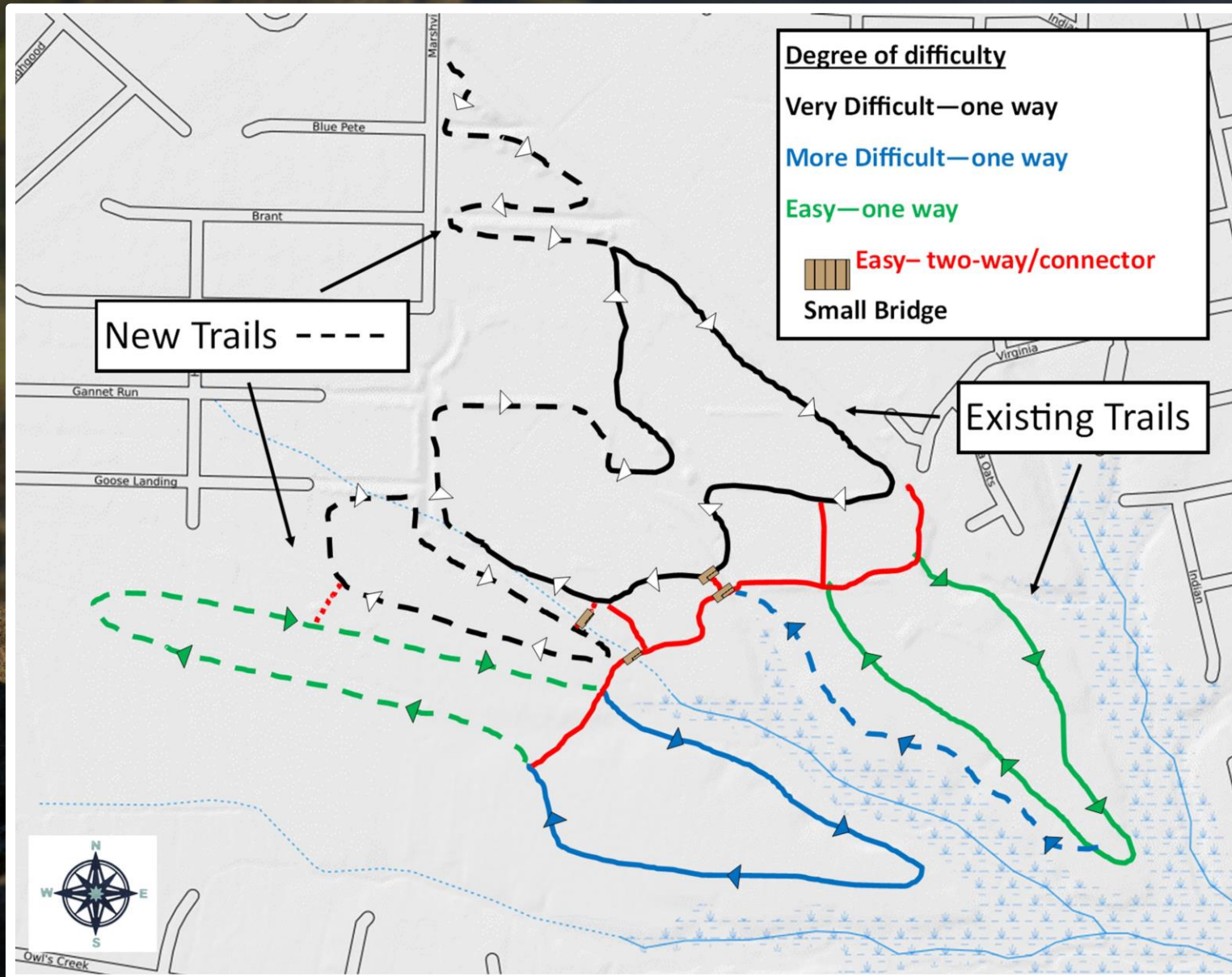
More difficult blue square single-track trails will offer more turns, steeper trail grades and variable tread surface compared to green trails. These trails will also be narrower and require riders to break more of sweat than green trails.



Marshview Park offers topography that is rare to Virginia Beach. Large berms of soil next to steep ditches give the unique opportunity to design and build challenging and exciting MTB trails. These single-track black diamond trails will be longer than green and blue trails and require riders to traverse steep terrain across variable tread surfacing. These trails are designed for experienced mountain bikers.

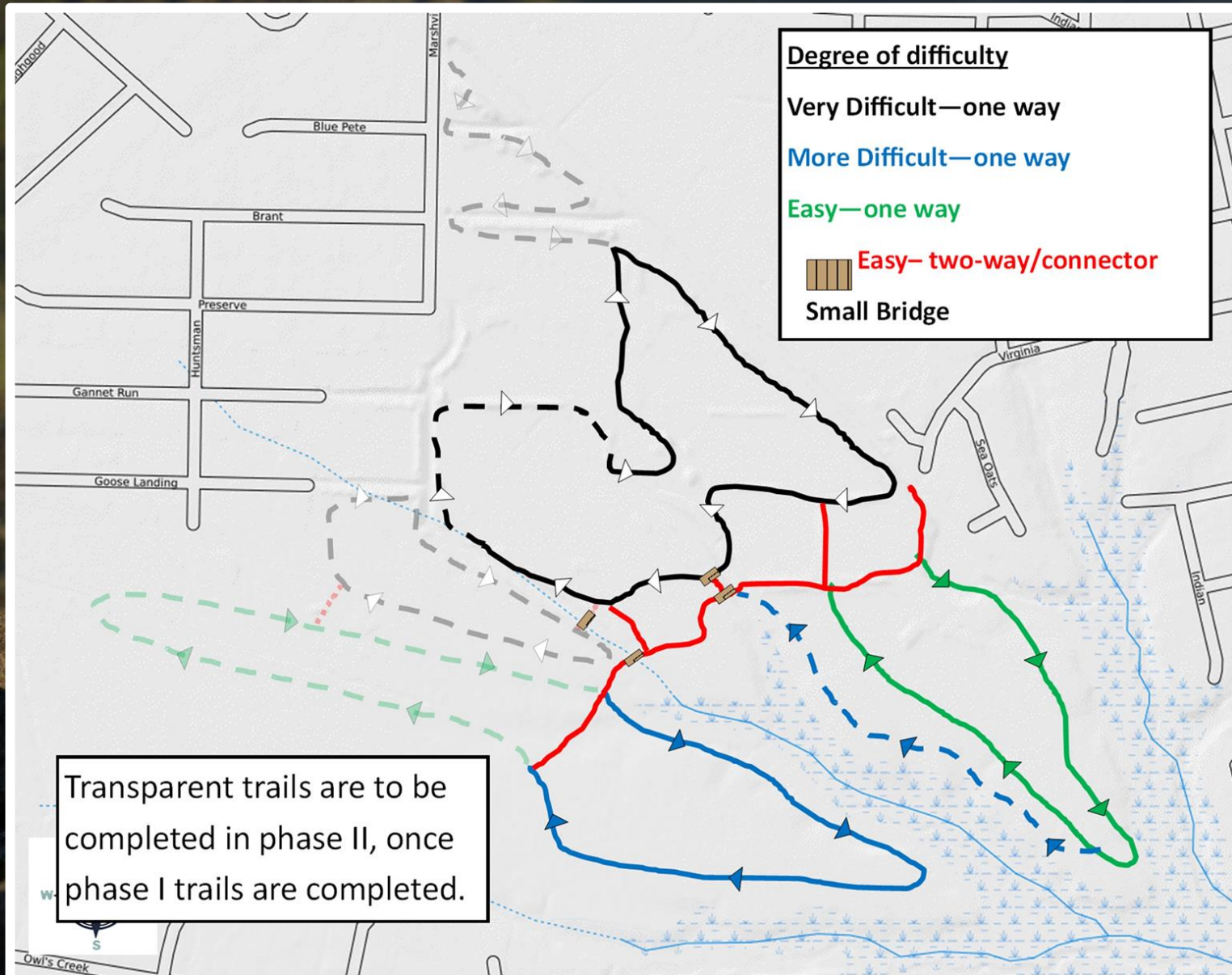


Pre-liminary trails are conceptual and not final.



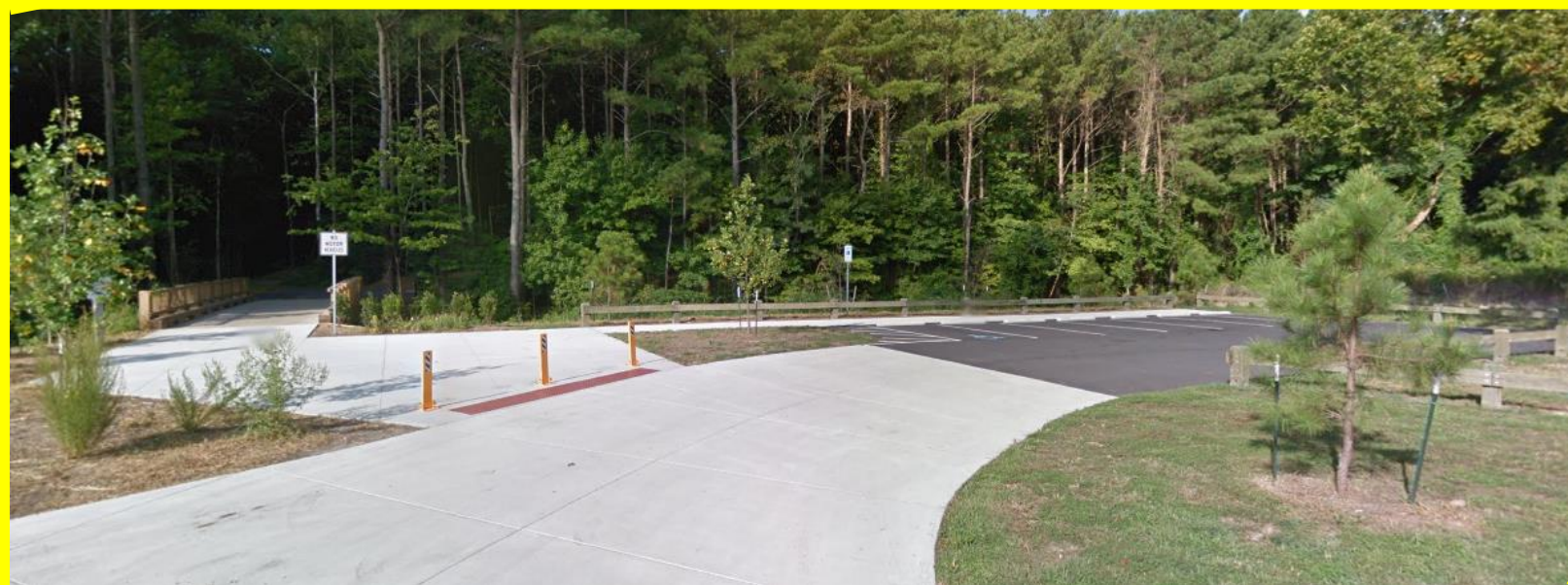
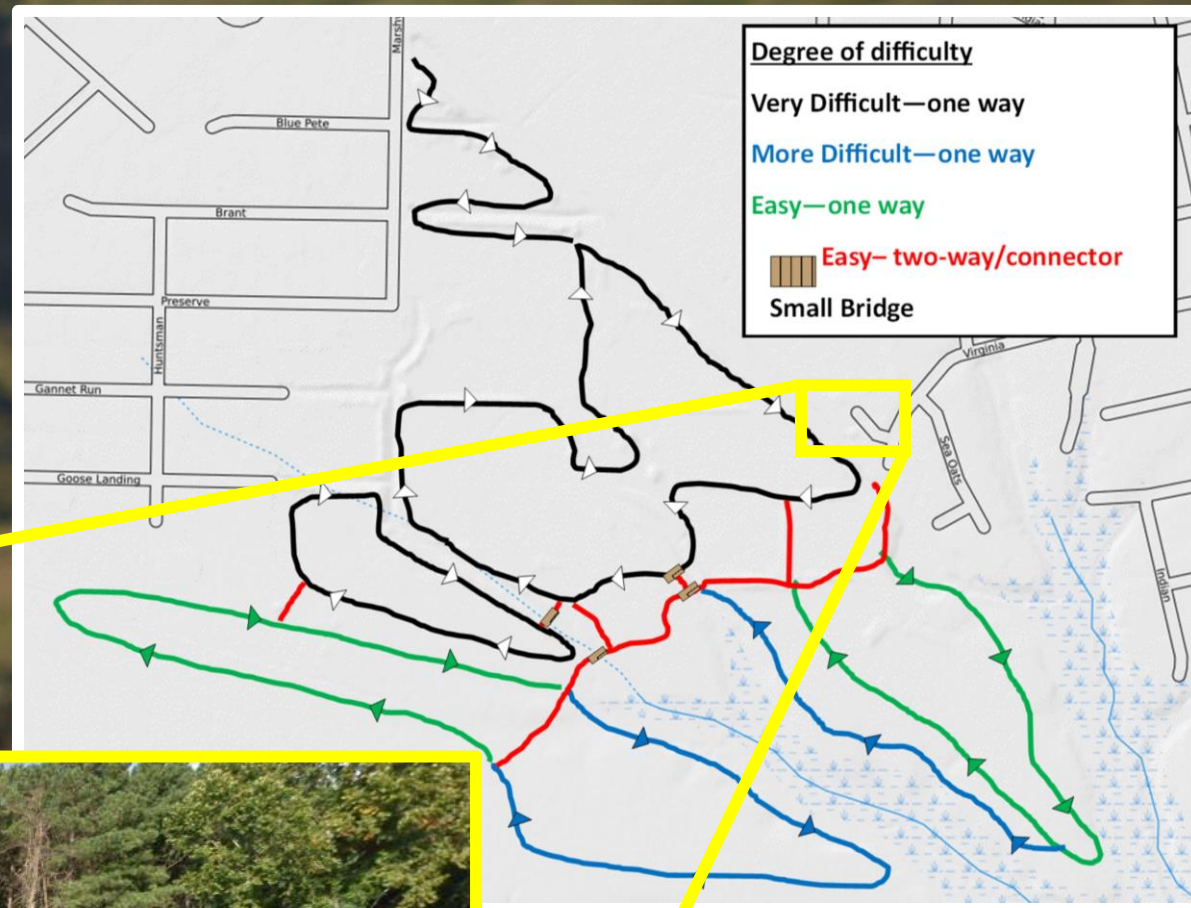
The trails in solid line currently exist and have for some years. They are currently used by hikers and bikers alike. The dashed lines are trails that need to be constructed. Park & Landscape Services and EVMA will work together to clear and construct these trails based of the IMBA Trailbuilding Basics manual.

Pre-liminary trails are conceptual and not final.

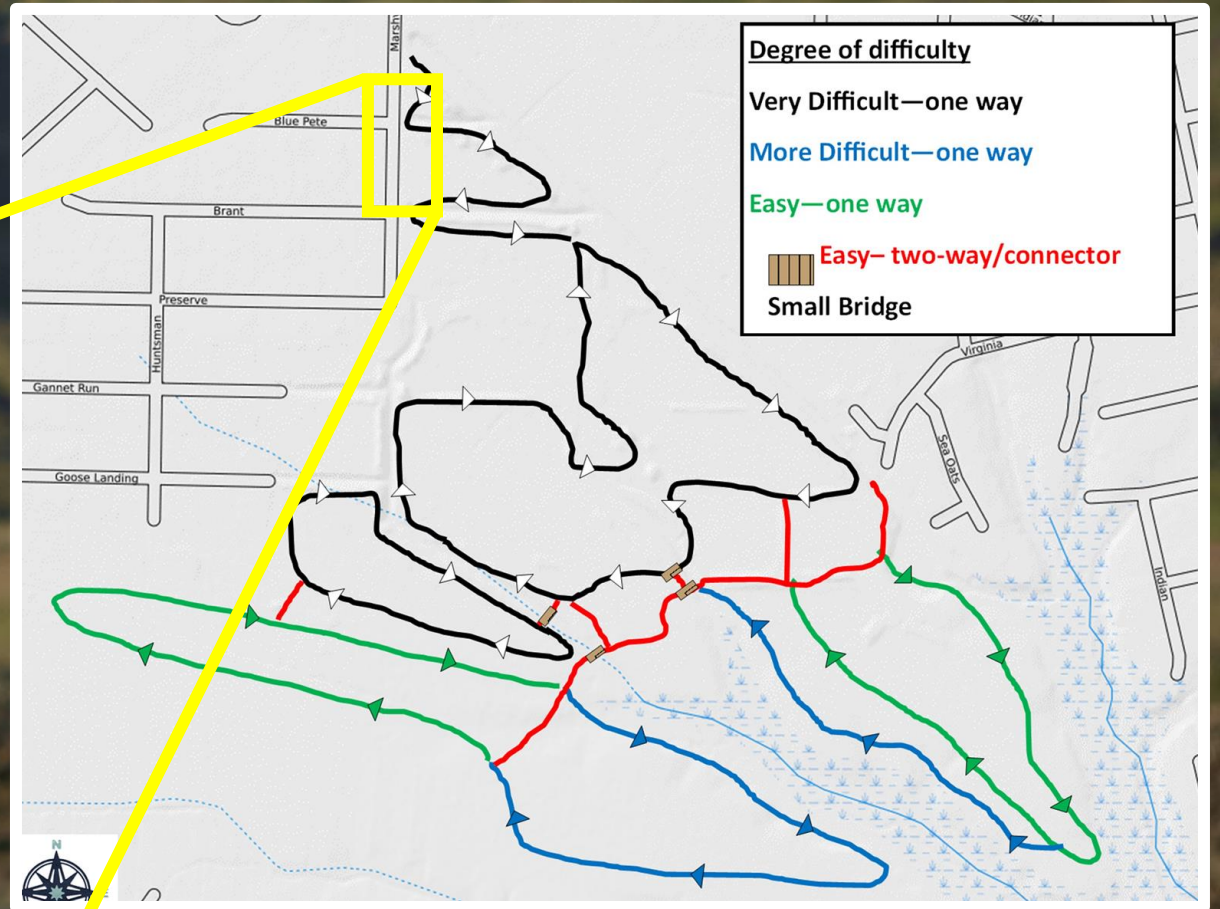


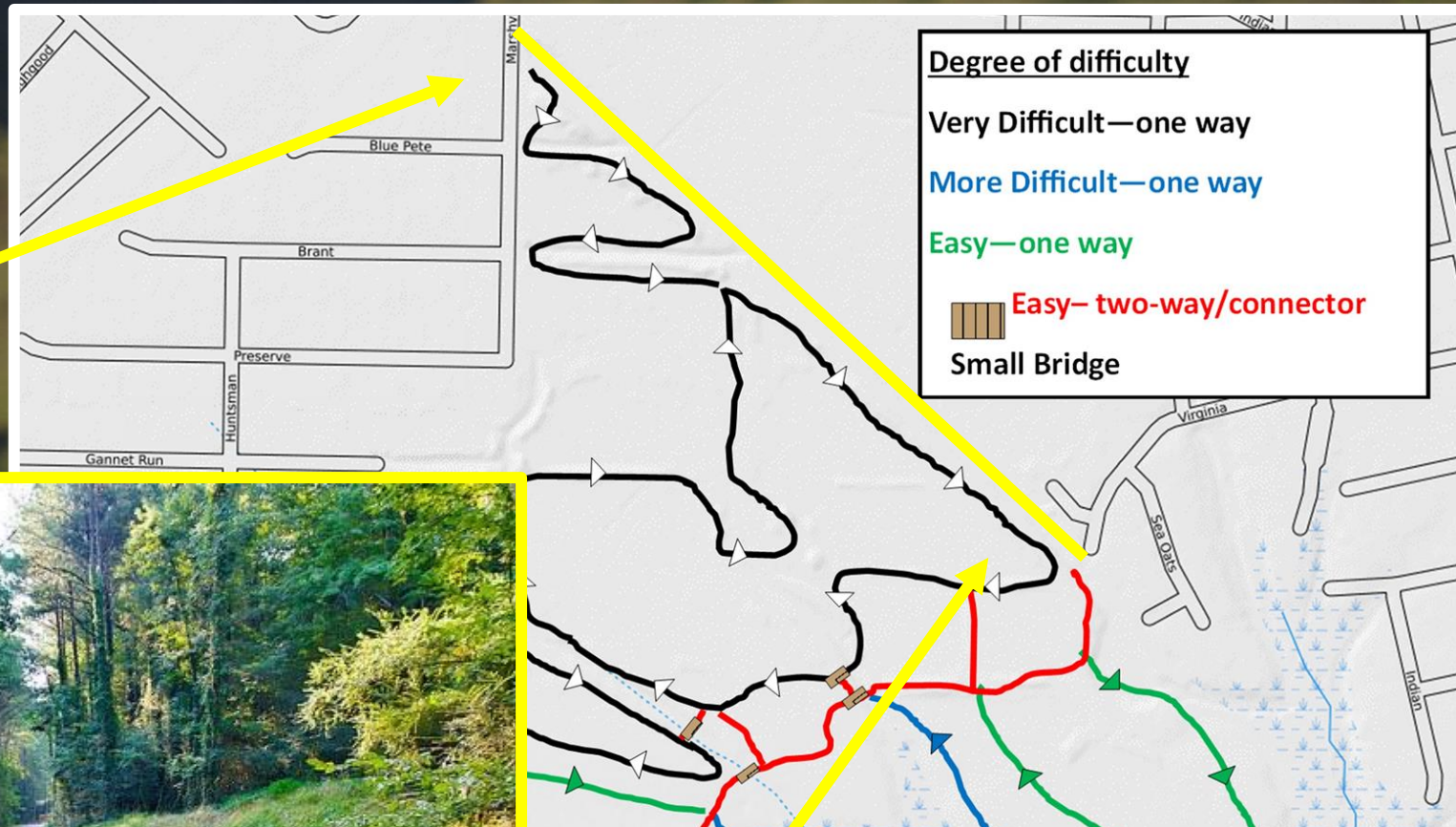
Phase I will consist of constructing the new blue trail along the first peninsula and a new section of trail that will complete the black diamond loop. After phase I is complete there will be one easy trail, two more difficult blue trails, and one longer black diamond loop. Once these are complete, construction of a new easy trail, a small black diamond trail, and small black diamond approach trail will begin.

Six parking spots and one handicap spot are located at the Marshview Park parking lot at the end of Virginia Avenue.



On street Parking is available along Marshview Drive.





An existing ADA compliant asphalt trail connects Marsview Drive to Virginia Ave. The soft trails can be accessed from this connecting trail.

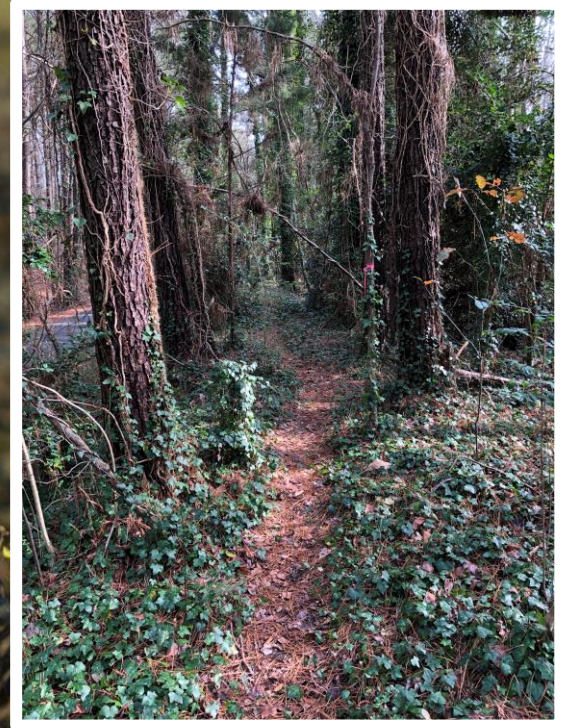


EVMA will assist in multiple areas on trail work. Two trail captains will monitor the trail conditions along with Park & Landscape Services staff. All maintenance on trails will use sustainable practices to be as safe as possible and minimize erosion and other environmental impacts.

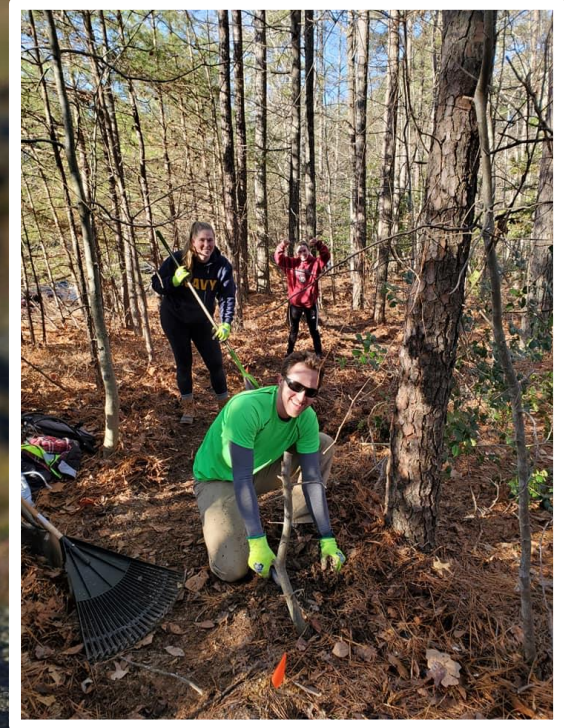
Trail design & construction



Trail design & construction. De-vining trees & vegetation clearing








Maintenance & surface renovation



Single-track trails may have natural obstacles and Technical Trail Features (TTF's). All trail construction, including bridges, obstacles and TTF's, will follow the International Mountain Biking Association's Trail Difficulty Rating System.

Any, and all TTF's will be approved by Parks & Recreation and City of Virginia Beach Risk Management. These features will be optional and avoidable by the biker if desired.

IMBA Trail Difficulty Rating System					
					
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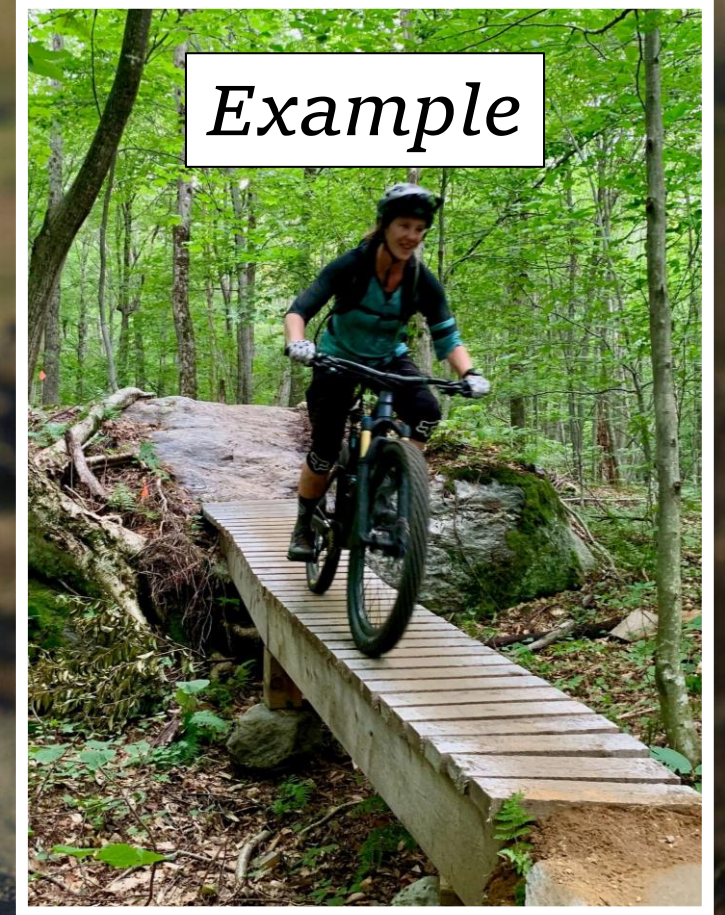




Any construction, removal, or landscape work that requires small-engine equipment will be performed by Park & Landscape Services.



Approximately four bridges are needed to span 12-15' across two ditches that separate the park. These bridges will be approved by Planning Design and Development.



All single-track trails at Marshview Park will be multi-use, allowing for hikers, trail runners and mountain bikers alike. It is a rule of the trail, and proper trail etiquette, for mountain bikers to yield to hikers. Mountain Bikers and Hikers both yield to pedestrians with dogs on leash.



Rules of the trail and directional information will be communicated to trail users through trail head maps, signage, wayfinding post, mileage markers and trail blazes.



**Mountain Bike Trail Head**

Riders Must Wear Helmets  
Dogs Must be Leashed  
Stay on Marked Trails  
Leave No Trace Behind  
Respect Others & Enjoy Nature

A brown rectangular sign with rounded corners and a white border. At the top is a white icon of a person riding a mountain bike. Below the icon, the text "Mountain Bike Trail Head" is written in a bold, white, sans-serif font. Underneath, a list of rules is written in a smaller, white, sans-serif font, separated by small white dots.

	Units	Unit Price	Total
Bike Fixit Station	2	\$1,400	\$2,800
8'x8x4" concrete pad	2	\$300	\$600
Trailhead Map 24"x36"	4	\$400	\$2,000
4'x4'x4" concrete pad	4	\$200	\$800
4"x4"x4' Post	25	\$50	\$1,250
Way-finding signage	50	\$40	\$2,000
Mileage markers	25	\$20	\$500
		Total	*\$9,950

Parks & Recreation plans to work with local private companies who are interested in providing grants to help fund the project. *\*These cost are estimated and not exact. The number of materials may change based on final layout and construction of trails.*



A photograph of a dirt path in a forest, covered with pine needles and fallen leaves. The path is flanked by a dense forest of tall, thin trees. The text "Let's Ride!" is overlaid in the center of the image in a white, bold, sans-serif font with a blue outline. The image has rounded corners and a white border.

**Let's Ride!**