



2018 TAMANEND PARK MASTER SITE PLAN UPDATE

*Tamanend Park
1255 2nd Street Pike
Southampton, Bucks County, Pennsylvania 18966*



Prepared For:



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This study was financed by Upper Southampton Township.

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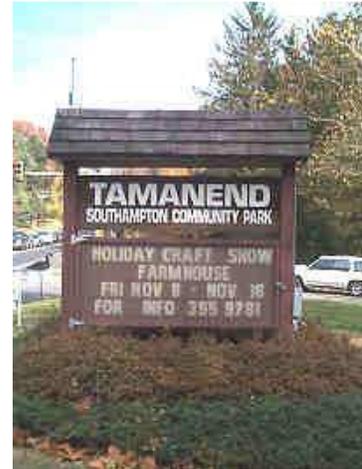
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1. BACKGROUND

1.1. INTRODUCTION

Tamanend Park is an outstanding public natural resource to be cherished by present and future generations of Upper Southampton residents. Upper Southampton Township recognizes the Park’s significance as a natural, cultural, and recreational resource, and has funded this Master Plan to provide the framework for future improvements and management in order to enhance the park’s value to the community.

The original Master Plan for the park was prepared in 1977, after which the main elements visible in the park today were installed. The original stated goal for the park was very general and open-ended: “to provide open space for recreation and education”. This idea of a multi-generational, active/passive recreation with emphasis on conservation and community social and recreational needs has long remained a goal of the park and the community. The elements installed decades ago, including the access drive, parking areas, tennis courts, pavilion, multipurpose fields, meadow areas, nature trails, playground, and comfort station, fulfilled the goal and served the community well for many years. The intention of this new Master Plan update is to determine if the community needs have changed, then develop a plan of action to meet those needs.



A key component for a successful master plan is public input, which engages the community in the planning process. By utilizing various methods of public involvement, the Master Site Plan Update for Tamanend Park seeks to fulfill the goals and objectives of the Township’s Recreation Plan while responding to the expressed needs and desires of the community.

This Master Plan represents a conceptual design for the park’s improvements and a set of recommendations for the park’s development. Future design and construction projects should be guided by the established recommendations and priorities set during the planning process.

Implementation of the Master Site Plan will take patience and success with fundraising through grant sources – all of which are possible given the park’s substantial attributes. There is challenging work ahead to make the park vision a reality. However, the Township officials and residents who labored long and hard on this plan believe that the Master Site Plan’s goals are achievable and worthy of the work that remains ahead.

1.2. PARK HISTORY AND SIGNIFICANCE

Tamanend Park is a 102.4-acre property in Upper Southampton Township, in southern Bucks County, Pennsylvania. The park is centrally located within the Township and is one of five parks operated by the Township, with a population of about 16,000 residents. The park, located off Second Street Pike, was part of the William Penn land acquisition of 1683 from Chief Tamanend. In 1975, the Upper Southampton Township and Centennial School District joined to purchase Tamanend Park, part of the former Leedom homestead, for nearly one million dollars. The park name "Tamanend" honors the Lenape Indian chief of the same name.

The farmhouse in the park is circa 1740, while the carriage house and barn dates back to the early 1800s. The carriage house, barn, and spring structures have a historic designation by the Heritage Conservancy of Doylestown, PA. The farmhouse is already on the conservancy's Registry of Historic Places.

Prior to acquisition of the current park property by the Township, William Long, a self-taught botanist, established Southampton Nurseries on the property. He used his nursery to introduce new species of trees and shrubs into the Philadelphia area in the 1950's. Today, many of the specimens of exotic trees, left over from the nursery, remain as part of the character of the park.

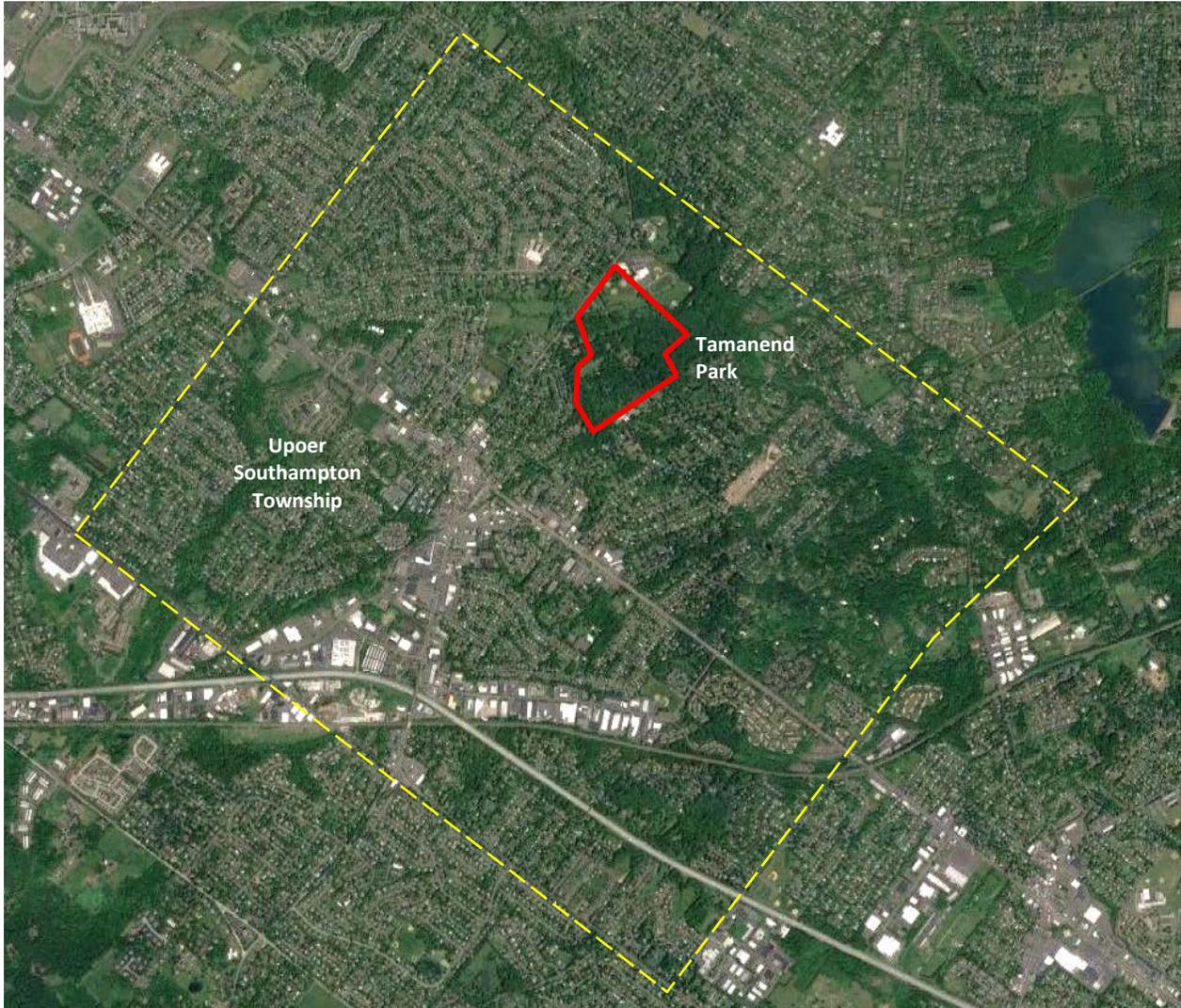


Today, the Upper Southampton Township Parks and Recreation Department offers a wide variety of recreation and community programs at Tamanend Park, ranging from major community events to sports and arts programs. The Township offers or facilitates more than two hundred programs annually, including music, drama, dance, fitness and wellness, sports, self-improvement, arts and crafts, and many special events. Many of these programs take place at Tamanend Park, utilizing the outdoor recreation facilities and indoor locations.

Both the cultural heritage and summer camp history are significant to area residents, many of whom have fond memories of their own or their children's participation in activities at Tamanend Park. Consequently, the Master Site Plan attempts to preserve and highlight this cultural legacy.

1.3. THE MASTER PLAN PROCESS

This Plan was developed through extensive outreach and dialogue with a wide range of interested stakeholders, including Township officials, the Friends of Tamanend Park, local institutions, and the general public. The study was conducted over a 12-month period from April 2017 through April 2018. Community outreach took place on several levels.



2. SITE INFORMATION AND ANALYSIS

2.1. REGIONAL CONTEXT

Upper Southampton Township is located in the southern part of Bucks County, about 20 miles north of center city Philadelphia, in southeastern Pennsylvania. Covering an area of 6.4 square miles, the Township is bounded by three Bucks County communities: Warminster Township, Northampton Township, and Lower Southampton Township, and two Montgomery County Communities: Upper Moreland and Lower Moreland.

The Township is one of 54 municipalities located within Bucks County. According to the 2010 United States Census, the Township population is 15,152 within its 6.4 square miles. The population is

expected to rise by the next census, with a projected 2020 population of 16,239. Of the 6,031 households in the Township, 27.8% had children under the age of 18 and 19.6% were persons 65 years and over.



Southampton, PA is a namesake of Southampton, England, the seaport from which adventurous followers of William Penn sailed to the Province of Pennsylvania. Originally settled by a small group of Quakers, Southampton was recognized in 1685 by the Provincial Council as a township. It was not until 1929 that the township was divided into Upper Southampton and Lower Southampton. The area was primarily used for agriculture. After World War II, after improvements to the railway system, roads, and public transportation, the area became a stable suburban community.

Today, most of Upper Southampton Township has been developed, and less than 5% of the land is classified as vacant. There is no remaining agricultural land in the Township. Aside from several main commercial corridors, land use in the Township is primarily residential, and is characterized largely by single family homes in suburban-style subdivisions. Two rail lines, operated by Conrail and SEPTA, travel through Upper Southampton Township and are bridged only at major arteries. However, the SEPTA commuter rail line is currently inactive and was last operational in 1983.

Major regional roadways that facilitate access to and from the Upper Southampton Township area include the Pennsylvania Turnpike (I-276), US Route 1 and US Route 611. Within the Township boundaries, major roadways include Street Road (S.R. 0132), Second Street Pike (S.R. 0232) and County Line Road (S.R. 2038). There is limited bus mass transit service within the Township, but no regional rail service (the nearest regional rail station is in nearby Hatboro). Sidewalks are present along many major roads and residential streets, although there are gaps that exist which reduce the overall mobility provided by the pedestrian network. There are no roadways within the Township that provide dedicated bike lanes.

2.2. TOWNSHIP RECREATION FACILITIES

Upper Southampton Parks

Numerous recreation facilities are available to the residents of the Township, not only at municipal parks, but also at school sites and private open space within developments. Upper Southampton Township currently owns and operates 5 parks, totaling approximately 205 acres (See Table 1).

The 2007 *Comprehensive Parks, Recreation, and Open Space Plan* contains a complete inventory and description of existing parkland and open space within the Township. It should be noted not all the available open space is devoted to active recreation. Much of the land is undeveloped and can be viewed as passive open space and natural resources, some of which has limited development potential due to steep slopes and water courses.

Other Recreational Opportunities

Public and private schools in the area provide various recreation opportunities that are available the residents of the Township, mostly in the form of courts and fields available for use when not being used by the school.

The Upper Southampton Parks and Recreation Department offers recreational programs that promote family participation, good health and fitness, youth development, and intergenerational experience.



Name	Acreage	Amenities
Township Parks		
Community Center	8	5 baseball fields, 1 football field, 1 announcing booth, 1 batting cage, 2 outdoor basketball courts, 1 outdoor volleyball court, 2 tennis courts, 1 playground complex (with a multi-purpose area and a separate swing area), indoor gymnasium, meeting rooms, office and lobby.
Willie Schaefer Field, Gravel Hill Rd	15	1 Baseball, 1 Softball, 1 concession stand, restrooms, 2 soccer fields (1 regular, 1 8v8 field & 3 mini-soccer fields). The soccer fields overlap the outfields of the baseball and softball fields.
Veterans Field, Street Road	14.8	2 soccer fields, 1 walking path, 1 combination restrooms /concessions/storage bldg., 1 playground area, a veterans’ remembrance area
Tamanend Park, 1255 Second Street Pike	103 +/-	3 softball fields, 1 batting cage, restrooms, concession stand, picnic area, bandstand, 2 tennis courts, 1 sand volleyball court, picnic areas, 2 pavilions, 5 miles of walking trails, a pond, 1 outdoor theater, bocce, disc golf
Other		
Davis Elementary School	9.6	playground
Klinger Middle School	31.3	1 baseball, 2 softball, 1 football, 4 basketball, 1 gym, multi- purpose room, 1 swimming pool, exercise trail/track
Southampton Estates		3 soccer fields (1 listed as a regular field, and 2 as 8v8 fields)

2.3. RELATED PLANNING CONTEXT

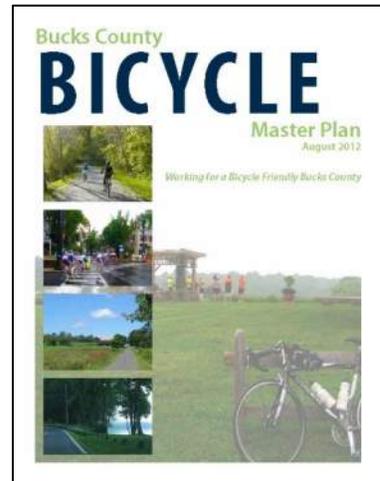
This Master Plan for Tamanend Park is consistent with earlier planning efforts that have been conducted locally and regionally in recent years. Related plans and policy documents are as follows:

SOUTHAMPTON RAIL TRAIL

Planning has been underway for several years for the 8-mile long Southampton Rail Trail, which is envisioned to be an extension of the existing Pennypack Creek Trail in Montgomery County, and may use the Right-of-Way of SEPTA's former Newtown-Fox Chase Line. Presently the intended route is divided into two segments. The southern section spans Upper Southampton Township, and is currently in the design phase. The rail line crosses immediately to the south of Tamanend Park, and a regional trail in this location would provide direct connection to the Park, park trails, and adjacent Klinger Middle School

BUCKS COUNTY BICYCLE MASTER PLAN (2012)

This document presents a Plan for a county-wide network of bicycle trails, and provides a resource for local municipalities, to assist with the planning and implementation of bicycle facilities across the County. The Plan promotes an environment in which pedestrians and bicyclists within Bucks County can conveniently and safely ride for transportation, recreation, and fitness purposes.



BUCKS COUNTY OPEN SPACE AND GREENWAYS PLAN (2011)

This plan provides a decision making, implementation and management tool designed to protect and create linkages between the County's vast natural resources, open space and farmland, recreational facilities, and historic and cultural resources.

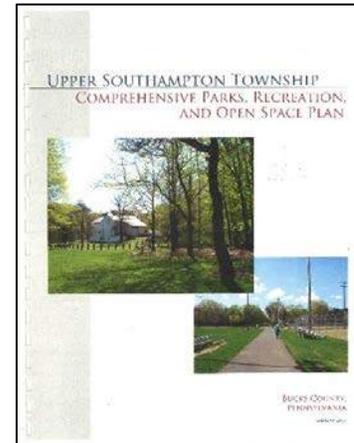
UPPER SOUTHAMPTON TOWNSHIP -COMPREHENSIVE PLAN UPDATE (2010)

The Township Comprehensive Plan establishes the goal to provide adequate parks and recreation facilities for all age groups and interests and to promote the preservation of open space and the subsequent development, where applicable as a means to contribute to the quality of life of township residents. The Comprehensive Plan notes the potential for trail development along the SEPTA rail line, which runs alongside Tamanend Park and could provide direct access to the park and Second Street Pike. There has been interest from Northampton Township to continue the trail to the Churchville station area or further in that Township. SEPTA has encouraged the County to apply for use of the right-of-way for a trail for biking and walking similar to an agreement it has made with Montgomery County to the south.

UPPER SOUTHAMPTON TOWNSHIP COMPREHENSIVE PARKS, RECREATION, AND OPEN SPACE PLANS (2007)

This Plan establishes a strategy for improving park and recreation facilities township-wide, to meet the needs of current and future populations. The preparation of a Master Plan for Tamanend Park was highlighted as one of nine key areas of focus. Specific recommendations for the park included:

1. Establish a formal mission statement for Tamanend Park. Based on the public involvement process for this plan and data collected, it appears that the park should be primarily passive, but can continue to have some active recreation facilities located within it and should be better integrated with the Klinger School site to create a true community park. With regards to the naturalized areas of the park, one of the clear misconceptions is that the park should be left “natural.” The fact is that much of the site was a former nursery and the plant material is not native or natural to region. It would appear that a possible strategy would be to treat a portion of the overall park as an arboretum. A mission statement should be developed, possibly in partnership with the Township’s Environmental Study Commission, to establish a philosophy for how to handle various types of plant materials and therefore, become the basis of a management strategy.
2. The park has a system of walking paths; some are more formal than others. A primary and secondary path system should be established with at least one loop, which traverses the entire park and connects to the Klinger Middle School.
3. The park should have more distinct gateways, including from the Klinger Middle School.
4. Consider developing a small amphitheater in the middle of the park, north of the access roadway for small concerts and educational programs.
5. Landscape the park using plantings to the region. Develop an invasive species removal program and implement it as resources allow.
6. Provide walking trails in parks and to recreation facilities. The ADA requires access to recreation facilities and activity areas via an accessible route.



MASTER PLAN FOR RECREATION – UPPER SOUTHAMPTON (1979)

As early as 1979, planning for parks in the township had an eye toward future population and growing demand for facilities. Many of the current goals that will drive the future evolution of Tamanend Park were voiced in this earlier plan, among them:

1. Establish a recreation system that will provide the residents of Upper Southampton with opportunities for a wide variety of leisure activities.
2. Provide a balance of suitable sites and facilities to fulfill the requirements for organized and individual sports as well as the desire for natural areas.
3. Design the outdoor recreation areas to promote the use by citizens of all ages including the handicapped and others requiring special faculties.
4. Encourage the use of bicycles for travel to and between recreation sites.
5. Preserve Natural Areas for their enjoyment and educational values.

TAMANEND – A CONSERVATION / RECREATION PARK AND MASTER PLAN (1977)

The original Master Site Development Plan for the park was prepared in 1977, after the Township conducted a comprehensive assessment to determine the recreational and conservation needs of the community. The main goal for the park was to provide community open space for various multi-

purpose recreational activities, combined with conservation and preservation of the natural areas. Based upon the assessment, the following facilities were proposed for the new park:

- New vehicular entry
- Parking
- Picnic areas
- Horseshoes
- Tennis Courts
- Volleyball Court
- Basketball Court
- Toilet Facilities
- House, Conference Center, Museum, Garage, Park Office, Barn/Theatre, Concert Terrace
- Emergency Lanes, Bus Turn-around, Park Material Storage
- Nature Trails, outdoor Classroom
- Pavilion, Multipurpose Field, Tot Play Area
- Special Exhibit Areas: Lenape Village, Overlook Tower, Archeological Dig, Energy demonstration project, Wildlife Blind, Edible Food Area, Pond, Pier, Catwalk
- North Meadow
- East Meadow

After completing a site analysis, Preliminary Sketch Plans were developed for review and discussion. After this review, the Recreation Board and other Upper Southampton Township officials selected one sketch plan to be further refined into the Final Park Master Plan.

2.4. DESCRIPTION OF THE SITE

Tamanend Park is the Township’s largest park, at 102 acres, and is located along the east side of Second Street Pike between Bristol and Street Roads. Smaller parks are located within residential neighborhoods and incorporate natural resources, primarily streams and woodlands. These areas offer unofficial passive open space as well as water recharge areas, natural stormwater catchment areas, and wildlife habitat.

Zoning: The park is zoned R-1 (Residential Conservation District).

Surrounding Area:

- North – Klinger Middle School, R-1
- South - Church of Redemption, R-1
- West – Second Street Pike and residential R-3 (Moderate Density Residential)
- East – Railroad (former Reading Railroad, Septa R8)

Deed Restrictions and Easements: There are no deed restrictions. Water, storm and sanitary easements are assumed with the public utilities on-site.



Site Access and Circulation:

Vehicular Access: The entrance to the main parking area is located on Second Street Pike (PA 232), directly across from Maple Avenue. The intersection provides access from all directions and is controlled with a traffic signal. The main entrance includes an 18-foot wide access drive to multiple parking areas throughout the park. This is the only vehicle access and parking area for the park.

Parking: There are seven designated parking areas at the park.

- Tennis Court/Picnic Area – 24 spaces
- Tennis Courts/Playground – 7 spaces
- Pavilion Lot- 30 spaces
- Upper Parking Lot – 18 spaces
- Office – 8 spaces
- Carriage House – 6 spaces
- Farmhouse – 10 spaces



Pedestrian Access: The park does not have perimeter fencing, so pedestrians can enter the park anywhere along its borders. There is not a sidewalk on the park (west) side of Second Street Pike, but there is a sidewalk on Maple Avenue. Pedestrians can cross Second Street Pike at the traffic signal but there is no striped cross walk.

ADA Compliance: The parking area near the park office has ADA parking spaces. The other parking areas are absent of reserved ADA parking spaces.

Internal Paths: A paved ADA accessible path leads from the park office area and ADA parking spaces to the Butterfly Garden and the Glade. No other paved bituminous paths are within the park. Many natural paths have been formed in the natural areas and former nursery stock areas, in varying widths and conditions. Many of the paths are overgrown with the existing vegetation and display stability concerns because of erosion.



Natural Features:

Topography and Vegetation: There are four distinct areas of the park, which each have very different characteristics and features:

- The area of the park devoted to active recreation is located near Second Street Pike and is referred to as Tamanend Fields. This is an area of mown lawn and athletic fields and slopes to the creek to the south.

- The developed passive recreation area is the largest area and contains most of the park’s amenities. This area was the main part of the former nursery and is gently sloping toward the creek to the north.
- The areas of the steepest grades are along the former rail line toward the back of the park along its southern edge. This area has not been disturbed for some time and contains slopes greater than 25% in some locations.
- The creek area that bisects the park occupies the eastern portion of the site and is seasonally wet with portions of a naturalized forest and individual trees.



Soils: There are eight soil types within the park boundary. Most of the soils on site are Lawrenceville silt loam (LkB), characterized by 3% to 8% slopes, upland slopes and moderately well drained. The next largest soil groups are Lansdale loam (LgB), 3% to 8% slopes, Brownsburg silt loam (BsB), 3% to 8% slopes and Fountainville silt loam, 3% to 8% slopes. Along the ridgeline is Lansdale loam (LgD), characterized by 15% to 25% slopes, hillsides and well drained. Urban lands consist of Duffield complex (UnB), 0% to 8% slopes, Lansdale Complex (UrC), 8% to 15%, and Lawrenceville complex (UsB), 0% to 8%

Hydrology: A Mill Creek tributary passes through the park in the north west area. The creek runs west to east and it is within the Neshaminy Watershed. Mill Creek within the park appears to be channelized and in degraded condition. Limited natural riparian buffers are present and bank erosion is evident along the creek. No FEMA floodplains (A, AE, AE Floodway) or wetlands have been mapped within the park.

Pond: Located adjacent to the access drive opposite of the Barn and Carriage House, the pond was renovated in 2012. A surface drain swale from the pavilion parking area assist in feeding the pond and the outfall drains to the Mill Creek tributary.

Utilities:

Sanitary sewer: A gravity sewer line runs from the existing buildings to a sanitary line at Mill Creek. The sanitary main parallels the stream. The associated easement is unknown at this time.

Water: Water service is provided to the site from Second Street Pike.



Electric and Telephone: Both electric and telephone facilities are located above ground along Second Street Pike and are underground from Second Street Pike to the farm house, barn, carriage house, office building, pavilions and tennis courts.

Storm Sewer: No known storm sewer facilities are located on site.

Historic Features

The Farmhouse is presumed to have been built by Richard Leedom for his son William. The oldest part of the farmhouse is the middle section, with the south part dating back to the 1740's. For most of two centuries this house was a tenant farmhouse. After World War 1, William and Mary Long made it their residence, repairing and remodeling it.



Carriage House

The Carriage House was built in about 1890, and originally sheltered wagons and farm implements. As late as 1976 the nursery foreman lived upstairs in an apartment. In 2002, the building was renovated into a meeting room with kitchen.

The Park Office once stood at Second Street Pike as the sales building for the Southampton Nurseries. It was moved to the present site and enlarged during the 1950's.

The White Barn originally had wood siding, and the south side opened into a feed lot for cows and horses. It is a typical Pennsylvania "bank barn", and there was easy access to hay and grain storage above the stables.



Tamanend Tribute Rocks

The **Tamanend Tribute Rocks** are weathered Delaware river glacial boulders. The Friends of Tamanend placed them there to honor Chief Tamanend for the Southampton Tricentennial in 1985.

The William Penn Treaty Elm is a fifth-generation scion of the great elm tree in Shakamaxon in Philadelphia. (Shakamaxon was a historic village along the Delaware River inhabited by Lenape Indians. The legendary elm tree marking the spot blew down in a storm in 1810. Its location was

memorialized as Penn Treaty Park.) Legend has it that in 1682 William Penn met with the Lenape Indians under that elm to establish a foundation of peace and mutual respect between the European invaders and the native Americans in the new Commonwealth of Pennsylvania. In 1983, this elm was planted on William Penn's birthday, celebrating the tri-centennial of the Charter for Pennsylvania.

Amenities and Facilities:

Existing recreation facilities include the following:

- Tamanend Fields: one 60' softball field and two 50' softball fields.
- Lion's Grove Amphitheater, with adjacent snack bar and restrooms.
- Disc golf course: The disc golf course is a beginner friendly nine-hole disc golf course. It was completed in 2014 and the design/construction was part of an Eagle Scout Community Service Project.
- Picnic Pavilions (two)
- Tennis Courts (two)
- Tot lot
- Sand volleyball pit
- Horseshoe pit
- Bocce Ball Court
- Gazebo



Softball fields at Tamenend Park



Butterfly Garden: The Butterfly Garden is a memorial for families who have lost children. It is maintained by the Tamanend Park Herb and Garden Club and Friends of Tamanend Park and was recently refurbished in 2016.

Walking Trails: Many natural paths have been formed in the natural areas and former nursery stock areas, in varying widths and conditions. Many of the paths are overgrown with the existing vegetation and display stability concerns because of erosion.

2.5. CURRENT PARK ACTIVITIES AND EVENTS

Upper Southampton Township offers many programs, events and activities at Tamanend Park. These events include youth, teen, adult, family and the greater community.

There are several large-scale community events as part of the Township programming, such as the Fall Family Hayride, Spring Tea Party, Tamanend Park Day, Southampton Days and the Parade. These events draw from the larger region as well as from Upper Southampton Township. Another key factor to the success of recreational programs in the Township is partnerships with other providers of services in the region, such as the Centennial School District and commercial providers of recreation classes, such as dance and martial arts studios and sports camps.



Southampton Days:

Southampton Days is an annual July 4th Celebration that consists of week-long activities and events aimed towards the greater Southampton community. Activities include, Independence Day Parade, Independence Day Fireworks, Six Night Southampton Days Country Fair and the Southampton Days Annual Book. Events provide fun for the whole family. Games, rides and entertainment for small children. Rides and entertainment for teens. Bands for teens and adults along with food, crafts, children’s games and bingo.

Southampton Days Committee is a non-profit organization that organizes the annual event. The event is organized so that other community organizations can raise funds and advertise their services. By providing our community organizations the opportunity to promote their organization, everyone in the community benefits. A list of a few of the many community service organizations involved in Southampton Days: Lions Club, Kiwanis Club, Southampton Business & Professional Association, John Danenberger Scholarship Fund, Friends of Tamanend, Boy’s and Girl’s Scouts of America, Southampton Girls Softball. Many of the events take place at Tamanend Park.



Summer Camps: Nationally Accredited Summer Camp for Youth and Teens.

Upper Southampton Parks and Recreation offers a nationally accredited summer camp for youths and teens from June through August. Some of the activities include both indoor and outdoor sports,

environmental education, nature walks, fishing and pond exploration, arts and crafts, swimming, and guest speakers. Activities highlight individual strengths and allow room for growth and recognizable achievements to help campers feel in place and important among their camp family and community. The Counselor in Training Program is a key component of the camp that provides lessons on responsibility and work experience.

Tamanend Park Day:

Tamanend Park Day was established in 1995 to showcase the park as well as have a community-wide event. The Friends of Tamanend Park worked with the park director creating a family-oriented day that included colonial hands on activities such as sheep shearing, quilting, spinning of yarn, weaving and colonial cooking. This highlighted the historical nature of the park. There were family games, arts and crafts, pony rides, tours of the park as well as ever changing entertainment. The day was originally sponsored by Upper Southampton Township as well as the Friends of Tamanend. Now there are many community sponsors. This makes it possible to have a day of free family fun each September. Tamanend Park Day has evolved over the years including newer themes and activities and has remained a very popular event.



Fall Family Hayride:

Fall Family Hayride is an annual weekend event that allows families to escape to magical themes of far-off lands such as Oz, Willy-Wonka’s Chocolate Factory, and even outer space with storm troopers, to name a few. The event lasts for a few nights, but the planning of the event requires a lot of dedication and time from the community. Each year groups from Centennial School aid in creating props and costumes. This past year, Southampton Softball donated an honorable amount of their time directing parking traffic and running games. The event is organized in a way that promotes teamwork and makes it appropriate and fun for the entire family.

Earth Day at Tamanend Park:

Earth Day is an annual event, this year celebrated on Saturday, April 28. Worldwide, various events are held to demonstrate support for environmental protection. Upper Southampton Parks and Recreation Department, along with local Scouts, community volunteers and the Community Service Foundation, walk through the Park and remove trash and litter to help preserve the beauty of Tamanend Park.

Other Activities and Events:

Tamanend Park Tax Day 5k, Tamanend Park Farmers Market, Maple Sugar Demonstration, Harmony Day, Mother’s Day Breakfast, Dino Dig (youth), Tai Chi, and many more.

2.6. PARTNERSHIPS

Upper Southampton Township and Tamanend Park is fortunate to have devoted community service organizations that work for the good of the community and the Park. Two organizations key to the ongoing success of the Park are the Friends of Tamanend Park and The Tamanend Park Herb and Garden Club.

The Friends of Tamanend Park is a 501 (c)(3) nonprofit organization consisting of local community members in partnership with Upper Southampton Township. The mission of the Friends of Tamanend Park is to maintain, conserve, and protect the unique natural and historic features of Tamanend Park.

It was founded in 1974 and remains very active to this day. Friends helps organize, host and participate in many educational and community events at the park. They produced a birding guide and nature and history maps for the trails in the Park to facilitate self-directed recreation. The Friends of Tamanend Park meetings are held at the Park Farmhouse.

The Tamanend Park Herb and Garden Club was started in the summer of 1983 by four residents of Upper Southampton Township who were interested in the various aspects of herb gardening and herb use. Today the herb club has over 60 members. Each year members of the Tamanend Park Herb Gardening Club pull together to organize the annual herb sale and the profits go towards supporting the herb club's programs. The club maintains a teaching garden in the park, next to the Farmhouse, that features various specimen plants in various categories.



3. RECOMMENDATIONS

3.1. SITE DEVELOPMENT PLAN

List of Recommendations

Based on a thorough review and evaluation of the community surveys, key person interviews, comments from the two public meetings, input from the Study Committee, and discussions with Township Officials, the following list of recommendations has been developed for improvements to Tamanend Park:

1. **Provide Multi-Use Trail Loop and Enhance Passive Recreation Activities**
2. **Provide Connection to Southampton Rail Trail**
3. **Provide Wayfinding and Interpretive Signage**
4. **Renovate Children's Play Area**
5. **Expand Existing Tennis Courts**
6. **Improve Park Access and Vehicular Circulation**

7. Increase Parking / Enlarge the existing Parking Areas and ADA Compliant Access
8. Provide Limited Lighting for Park Security
9. Renovate and Expand Restroom Facilities
10. Preserve the Natural Area / Manage Plantings
11. Provide Stormwater BMPs
12. Stabilize the Stream Bank and Establish Riparian Forested Buffer

Each of the recommendations was given careful consideration:

1. Provide Multi-Use Trail Loop and Improved Trail Connections

Tamanend Park currently lacks a comprehensive accessible trail loop. A recommended trail network is shown on the Master Site Plan. The map illustrates a system consisting of a primary multi-use trail loop and existing secondary hiking trails.

Priorities for Trails include:

- Provide trails for walking, jogging/running, and bicycling, etc.
- Connect existing park structures, parking and features
- Connect environmental features of the park
- Connect to the Newtown Rail Trail

Design Guidelines for Multi-Use Path

- Intended uses: Hiking, jogging, bicycling, birding, cross-country skiing, snowshoeing, dog walking, roller blading (asphalt only), maintenance/emergency access
- Minimum path width: 10'
- Clear zone: 10 -12' height, 1-2' outside tread
- Surface material: Asphalt (preferred) or gravel
- Cross slope: Minimum 2%, maximum 3%
- Grade: Less than 5%. Where terrain dictates a slope greater than 4%, maximum run is 800 feet at this grade.

Design Guidelines for Hiking Trails

- Intended uses: Hiking, jogging/running, birding, cross-country skiing, snowshoeing, dog walking
- Minimum path width: 6' (8' preferred for cross-country running)
- Clear zone: 8' height, 1-2' outside tread
- Surface material: Wood chips/compacted earth (upland woods); mown grass (meadow)
- Cross slope: Minimum 2%, maximum 3%
- Grade: Maximum 10% for 200 feet. Grades greater than 5% are discouraged wherever practical.

2. Connect to the Newtown Rail Trail and Regional Trail Network

Connect the Park and community to the Upper Southampton Township’s 2.5-mile portion of the rail trail that links to a proposed extension to the Pennypack Trail between County Line and Byberry roads in neighboring Lower Moreland, Montgomery County.

3. Provide Wayfinding and Interpretive Signage

A standardized wayfinding system is recommended for the trail system. An overall system map should be placed in a kiosk at main entry points, e.g., parking areas. All trailheads and intersections should be marked. Trail signage should include information such as length of loops or segments, difficulty level (grade), types of use (multi-use, pedestrian only, etc.), and restrictions (e.g., no dogs permitted during nesting season). Named trails or loops are helpful for orientation and navigation.

Interpretive signage is also a great way to inform and educate park users about the benefits of the improvements in the park. This type of signage is most often used in the natural areas and can be used in Tamanend Park in the woodlands, to explain the preservation, maintenance, and reforestation being done, and along the stream, to describe the benefits of riparian buffers and streambank stabilization.

4. Renovate Children’s Play Area

The original playground has been in place for many years, with occasional replacement of equipment throughout the years. Both the community survey and the key person interviews cited improvements and upgrades to the playground as a priority.

In recent years, the play industry has developed more modern equipment that integrates play with skill development, learning, and social interaction. New equipment is also designed and manufactured to meet current safety standards. There are standardized methods to separate the two major age groups, 2-5-year-olds and 5-12 year-olds, since the heights of equipment and level of skill required of each group differ.

New play equipment, notably large play structures, have components built in that offer ADA compliant access to the equipment. The entrances to the playground and surfacing in the play areas should also be ADA compliant. There are a variety of options which offer ADA compliant surfacing as well as meeting the current safety standards for impact attenuation in the use zone. At a minimum, there must be a compliant path from the entrance to the play area to the ADA compliant component on the play equipment, usually a transfer platform.

5. Expand Existing Tennis Courts

There are 4 Township owned tennis courts: 2 at Tamanend Park and 2 at the Community Center. It is recommended to replace the 2 tennis courts at the Community Center, which need a major overhaul anyway, with a playground and construct 2 new tennis courts at Tamanend Park to maintain a total of 4 Township tennis courts.

6. Improve Park Access and Vehicular Circulation

The park has one existing vehicular access point on Second Street Pike (PA 232). It is recommended that vehicular access be widened to accommodate two-way traffic. In addition to a new park emergency access is discussed between the existing access drive and the church property on Second Street Pike. Adequate signage and security gating shall be provided to limit access to only service and emergency use in those areas. Further studies and discussions with PennDOT are required to determine if this connection is feasible.

7. Increase Parking / Enlarge the existing Parking Areas and ADA Compliant Access

Most of the existing parking areas can remain but it is recommended to enlarge or reconfigure them to include additional parking spaces. ADA compliant spaces and access can be designed to provide access from the parking areas to the proposed paved trail.

8. Provide Limited Lighting for Park Security

Current Township ordinance states that parks are open only during daylight areas, unless a special permit is obtained. In the public survey, the key interviews, and at the public meetings, requests have been made to add lighting in specific areas. These areas are:

Install Lighting critical locations along the proposed paved trail

Pedestrian lighting can be installed at critical locations of the paved walking path. Many walkers use the path in the early morning hours or after work, and lighting for a couple of hours before dawn and after dusk, especially in the winter months, would extend the amount of time available for exercise.

Install Lighting at the New Parking Areas

The intent would be to provide security level lighting of the new parking areas. There will be occasions where the Township would like to use the space in the early morning or early evening, these lights would only be on when a specific event is going on and for general park safety.

Install Lighting along the Park Entrance Drive

The intent would be to provide security level lighting of the entrance drive. There will be occasions where the Township would like to use the space in the early morning or early evening, these lights would only be on when a specific event is going on and for general park safety.

An important design consideration for lighting, especially considering the park is surrounded by residential properties, is how to light the area without creating glare. The lighting fixtures selected should be efficient, as low level as possible, and able to be shielded, if necessary.

The addition of lighting in the park, even for limited times, would require input from the township departments affected by longer park hours, most significantly the Police and Parks Department.

9. Renovate and Expand Restroom Existing Facilities

The existing comfort station is centrally located in the park adjacent to the tot lot. The renovated comfort station can be larger in size than the existing restroom and include small storage area. Utilities will

have to be extended to the new building, including electric, telephone, and water. Safety lighting is recommended on the outside of the building. This would be very low-level lighting, on all night, that would allow police to see activity around the building at night.

10. Preserve the Natural Area / Manage Plantings:

A key component of the original 1977 Master Plan was to support community conservation and preservation by protecting the natural areas of the park, containing mature woodlands, stream corridor, and steep slopes.

According to the Pinchot Institute’s report on Pennsylvania’s Forests, in the 15-year period from 1997 to 2012, more than 680,000 acres of forests have disappeared in the state. Two-thirds of this forest was lost to residential and industrial development of the land. Although the value of natural woodlands is subjective, proponents maintain that the trees, shrubs, plants, animals, and soils provide the community with numerous environmental, health, and economic benefits. The continued preservation of the natural areas in Tamanend Park is a key component of the Master Plan.

Specific recommendation regarding natural resource management are:

Develop a Woodland Maintenance Program

A Woodland Maintenance Program would direct the future care and maintenance of the natural area. A maintenance program may include:

- Evaluate dead and dying trees. In woodlands, fallen trees provide a habitat for animals and plants. The trees should be removed if they pose a safety hazard, such as being too close to a walking trail or have fallen across the stream where someone may try to walk across it. If a tree is found to have insects or disease, it should be removed immediately to prevent damage from spreading.
- Selective pruning of valuable specimen trees, is one necessary step beyond the general maintenance of removing branches after they die. Selective pruning and shaping of older, mature trees can help to extend their life.
- Remove invasive and unwanted species. Invasive species can have a negative effect on the trees and native shrubs that are desired in the park. Note that removal of invasive species can be a labor intensive and time-consuming effort.
- Develop an Integrated Pest Management (IPM) program to protect against future outbreaks. Although many think of pests as insects, IPM covers a wide range of organisms (animals, plants, and micro-organisms) that negatively affect the landscape. Generally, IPM uses a variety of control strategies, usually ecologically based, to maintain pests at acceptable levels.

Provide Upland Reforestation Planting

Upland forests also play a key role in the protection of aquatic resources and are themselves critical ecological systems. Forests across southeastern Pennsylvania are fragmented and many are suffering from degradation and colonization by invasive species. The loss of upland forests has had severe impacts on many bird species.

Begin Reforestation

Re-establishment of the natural forest is an ongoing process. A woodland study should be performed to determine the original woodland type and current plant species. Then a long-term plan can be prepared to direct all future plantings. By carefully selecting native plant material that is suited to the woodlands conditions—soil, topography, and micro-climate—the plants are more likely to survive and thrive and will require less long-term maintenance when established. Plantings can be done in phases as resources become available.

Meadow Restoration

Meadows and grasslands assist in the protection of the aquatic ecosystems and are a component of the riparian buffer. Historically, site development practices have not allowed for adequate meadow areas for aquatic protection and wildlife habitat. The park provides an opportunity for native grass and native wildflower meadow establishment by limiting the extents of the mowing and turf management activities.

11. Provide Stormwater BMPs

As a result of the proposed master site plan concept, there is an opportunity to provide ecological riparian benefits, additional water quality enhancement, mitigate for the increase in proposed impervious area, provide educational opportunities, and enhance landscape aesthetics.

Stormwater management approaches for the run-off of the proposed impervious surfaces in the site master plan should be determined in the design development and construction documentation phase for each improvement. Additional soil testing and percolation evaluation will be required to determine the final stormwater management approach.

It would be recommended that Best Management Practices (BMPs) be incorporated in the approach. BMPs are structural and non-structural methods and measures to achieve the regulatory standard of preventing pollution. BMPs manage post construction stormwater runoff in a manner to protect, maintain, and improve water resources, specifically the Mill Creek.

12. Stabilize the Stream Bank and Establish Riparian Forested Buffer

Certain areas along the banks of the stream have moderate to severe erosion. Silt from erosion affects stream quality. Continued erosion has also caused steep drop-offs and undermining of the banks, causing potentially hazardous situations for park users.

Evaluate Stream Quality and Bank Conditions

Many factors contribute to the water quality of a stream or river. Both natural and manmade environmental characteristics, such as climate, topography, geology, vegetation, erosion, pollution and obstructions, shape the physical and chemical characteristics of the stream. Streambank stabilization is vital to preserve the natural environment and prevent channelization and erosion. Specific positive effects that are a result from stream bank stabilization and riparian buffer planting include:

- The general increase in the volume of water flowing to our streams, due to continued development, causes a rush of water at high volume flow for a short period of time. The

- stabilization efforts help to reduce erosion along the banks and slow the water flow, which in turn prevents silting of the stream.
- Winter road salt, fertilizers and insecticides, dog waste, and contaminants from the roadways wash into the stream through the stormwater system or by overland flow. The chemicals and introduction of warm water runoff inevitably causes a change in the ecology of the stream. The riparian buffer plantings help to intercept the stormwater runoff, capturing, cooling, and filtering the runoff before it goes into the stream.
 - The riparian buffer plantings and trees shade the banks, further keeping the water temperature down. High water temperatures reduce the amount of oxygen in the water available fish and other aquatic organisms.
 - The plantings, boulders, and especially the root wads create a habitat for plants and wildlife.

Stabilize the Stream Banks

The extent and type of stabilization is determined based upon results of the study, and will vary depending upon the extent of the erosion, steepness of the slopes, and the force of the water flow during storm events. Stabilization can be done using plantings, natural and synthetic erosion control mats or blankets, or strategic stone and boulder placement.

The least expensive method of stabilization is riparian buffer plantings. Buffer plantings can vary in design and plant type, depending upon the desired final product. Generally, a mix of perennial plantings and woody trees and shrubs are used to promote a healthy plant cover above grade and a strong, fibrous root zone below grade, which work together to stabilize the soils next to the stream.

Riparian forested buffers are a critical component of healthy aquatic ecosystems and their larger watersheds. These streamside forests maintain the chemical, physical, and biological integrity of water resources and provide numerous essential functions, including: sediment and pollutant control; flood management, wildlife habitat, and temperature control.

3.2. APPLICABLE DESIGN STANDARDS AND GUIDELINES

The proposed improvements to the Park will reference:

- “2010 ADA Standards for Accessible Design”, published by the Department of Justice, for access into and around the park, including sidewalks and curb ramps.
- The Handbook for Public Playground Safety, for selection and layout of new playground equipment and playground safety surfacing.
- ASTM Standards for the fencing surrounding the playgrounds.
- “Pennsylvania Stormwater Best Management Practices Manual”, published by the PA Department of Environmental Protection Bureau of Watershed Management, for sediment and erosion control and stormwater management items.
- Applicable Codes and Ordinances of Upper Southampton Township.

3.3. SUSTAINABLE SITE DESIGN

- The Pennsylvania Department of Conservation and Natural Resources (DCNR) recommends that sustainable site design and green infrastructure be incorporated into the park design.

Their guidebook, entitled “Creating Sustainable Community Parks”, was a valuable resource for recommendations for incorporating sustainable principles into the park design.

- **Stormwater Management:** When the park was originally developed, stormwater management was not a major consideration, and drainage patterns went downslope towards the creek. The proposed improvements, most significantly the paved trail and parking area, will increase the impervious surface area in the park. During the design and engineering phase of those projects, the additional stormwater management requirements will be determined and compared to the capacity of the existing basin. Prior to new construction, the existing basin should be evaluated to confirm adequate capacity is provided; otherwise, minor modifications to the basin design may be required to accommodate the increase in runoff from the redeveloped areas.
- **Native Landscaping:** The use of native plant material has multiple benefits. Native plant material provides the food necessary to attract and retain the wildlife habitat. They are best adapted to the climate, soil, pests, and other conditions of a specific area. The recommendations herein propose using native plant material for both the reforestation in the natural areas and the ornamental landscaping in the main park area.
- **Creating Riparian Buffers:** The benefits of riparian buffers, vegetated areas around streams and other water bodies, are numerous. They help to mitigate floods, recharge groundwater, prevent erosion and sedimentation of the stream, trap pollutants, and improve aquatic and terrestrial species habitat. The proposed recommendations for the stabilization of the stream bank include installing riparian buffers.

4. IMPLEMENTATION

4.1. PROJECT PHASING

The site and programming improvements at Tamanend Park will likely be implemented in phases based on available funding resources. Phasing is also impacted by the level of engineering and permitting required for the proposed improvements. Since it is difficult to accurately predict when the funding will be available for the proposed improvements, the following list suggests an implementation strategy based on an order of importance of the improvements based on input and discussions with the Tamanend Park Committee.

- **Initial improvements:**
 - connect the Park to the Newtown Rail Trail
 - provide a portion of the paved trail loop
 - add additional ADA parking improvements at the parking lot closest to the park buildings.
- **Short-term recommendations within 0-3 years:**
 - improved visitor access drive
 - expanded visitor parking in the pavilion parking lot

- construct hiking trail loops
- add property line landscape buffers
- natural landscape restoration activities.
- Mid-term improvements within 4-10 years:
- Long-term improvements, 10 years and beyond:
 - promote the continued long-term sustainability of the park.

4.2. OPINION OF PROBABLE COSTS

This section provides very general Overall Magnitude of Probable Construction Costs for each of the recommendations. These estimated costs are based on Conceptual Plans and will be used for budgeting purposes. Construction costs can vary widely based upon the economy, the construction climate, and the type of work. This estimate also assumes that all design and construction will be done by consultants and contractors, and that each of the recommendations will be designed and constructed as separate projects. Additional savings can be gained for work that is packaged together, and for work done by Township forces. As each item gets implemented and detailed plans are developed, the construction costs can be refined.

A Master Plan is a guide for long range improvements to the Park. Improvements may be done in phases as funds become available. Each of the items was given a priority rating based upon many factors, including:

- Improve the health, safety, and welfare of the public.
- Deter/Correct negative impacts to the environment.
- Provide needed amenities.
- Eliminate maintenance problems / Simplify maintenance.

Also note that many of the items are interrelated until other improvements are performed and affect the prioritization. The priority levels may be adjusted over time as the needs of the community change and due to other unforeseen conditions, that may affect the park. The Township also actively seeks grant money from various organizations, which may modify the schedule of improvements.

An estimate of opinion probable development costs is included in Appendix D of this report. This Master Site Plan-level estimate is intended to provide a general range of costs for the various facilities and improvements that will support the plan objectives. This estimate is based on 2017 construction costs. As more detailed design and engineering information becomes available during subsequent development phases, costs will be more accurate. Costs will also be heavily impacted by market conditions current at the time. Escalation of materials and labor costs may occur.

This section shows only total costs for each of the items. A detailed breakdown of each of the estimates is included in the Appendix.

PLAN KEY	ITEM	ESTIMATED COST	PRIORITY
PRIORITY A			
Provide Multi-Use Trail Loop			
<i>TRAIL - 10' wide, bituminous pavement</i>			
A.	Outer Loop, southern trail	\$217,400.00	A
D.	Parking lots to Park Office	\$81,000.00	A
Provide Connection to Southampton Rail Trail			
B.	Outer Loop connection to Rail Trail	\$19,800.00	A
C.	Park Office to Trail Loop	\$40,500.00	A
Provide Wayfinding and Interpretive Signage			
A., E., D.	Educational Kiosk (Allowance)	\$8,000.00	A/B/C
A., E., D.	Interpretive Signage (Allowance)	\$5,000.00	A/B/C
Increase Parking / Enlarge the existing Parking Areas and ADA Compliant Access			
<i>PARKING - bituminous pavement</i>			
H.	80+/- Space Parking Lot Paving - Full depth*	\$271,100.00	A
Provide Limited Lighting for Park Security			
F., G., H.	Light poles, foundations, conduit and wiring	\$49,500.00	A/B/C
Preserve the Natural Area / Manage Plantings			
O.	Upland Reforestation (Allowance)	\$26,400.00	A/B/C
O.	Meadow Restoration (Allowance)	\$6,600.00	A/B/C
Provide Stormwater BMPs			
S.	Stormwater Management (Allowance)	\$33,000.00	A/B/C
Stabilize the Stream Bank and Establish Riparian Forested Buffer			
P.	Riparian Buffer Restoration (Allowance)	\$16,500.00	A/B/C
Sub Total (Construction)		\$774,800.00	
<i>Contingency (20%)</i>		\$155,000.00	
<i>General conditions, Mobilization, Insurance, etc. (15%)</i>		\$116,300.00	
<i>Soft Costs - Design and Engineering (8%)</i>		\$62,000.00	
PRIORITY A - ESTIMATED TOTAL		\$1,108,100.00	

* Potential cost reduction for gravel paving in lieu of bituminous paving in the parking lot area.

PRIORITY B			
Provide Multi-Use Trail Loop			
<i>TRAIL - 10' wide, bituminous pavement</i>			
E.	Outer Loop, northern trail	\$339,300.00	B
Provide Wayfinding and Interpretive Signage			
A., E., D.	Educational Kiosk (Allowance)	\$8,000.00	A/B/C
A., E., D.	Interpretive Signage (Allowance)	\$5,000.00	A/B/C
Renovate Children's Play Area			
M.	Playground Equipment	\$80,000.00	B
	Surfacing, play mulch	\$20,000.00	B
	Underdrain system (allowance)	\$15,000.00	B
Increase Parking / Enlarge the existing Parking Areas and ADA Compliant Access			
G.	85 +/- Space Parking Lot Paving - Full depth	\$362,300.00	B
Provide Limited Lighting for Park Security			
F., G., H.	Light poles, foundations, conduit and wiring	\$49,500.00	A/B/C
Renovate and Expand Restroom Existing Facilities			
N.	Expand Existing Restroom (Allowance)	\$100,000.00	B
Preserve the Natural Area / Manage Plantings			
O.	Upland Reforestation (Allowance)	\$26,400.00	A/B/C
O.	Meadow Restoration (Allowance)	\$6,600.00	A/B/C
Provide Stormwater BMPs			
S.	Stormwater Management (Allowance)	\$33,000.00	A/B/C
Stabilize the Stream Bank and Establish Riparian Forested Buffer			
P.	Riparian Buffer Restoration (Allowance)	\$16,500.00	A/B/C
Sub Total (Construction)		\$1,061,600.00	
Contingency (20%)		\$212,400.00	
General conditions, Mobilization, Insurance, etc. (15%)		\$159,300.00	
Soft Costs - Design and Engineering (8%)		\$85,000.00	
PRIORITY B - ESTIMATED TOTAL		\$1,518,300.00	

PRIORITY C			
Provide Wayfinding and Interpretive Signage			
A., E., D.	Educational Kiosk (Allowance)	\$8,000.00	A/B/C
A., E., D.	Interpretive Signage (Allowance)	\$5,000.00	A/B/C
Expand Existing Tennis Courts			
K.	Tennis Court, Fencing & Lighting	\$150,000.00	C
L.	Concert Area	\$65,000.00	C
Improve Park Access and Vehicular Circulation			
I.	Main Entrance Improvements (mill & overlay)	\$328,400.00	C
J.	Access Drive Bridge Replacement	To be determined	C
Q.	Emergency Access Drive	To be determined	C
Increase Parking / Enlarge the existing Parking Areas and ADA Compliant Access			
F.	100+/- Space Parking Lot Paving - Full depth	\$306,600.00	C
Provide Limited Lighting for Park Security			
F., G., H.	Light poles, foundations, conduit and wiring	\$49,500.00	A/B/C
Renovate and Expand Restroom Existing Facilities			
R.	New Restroom Facilities (Allowance)	\$175,000.00	C
Preserve the Natural Area / Manage Plantings			
O.	Upland Reforestation (Allowance)	\$26,400.00	A/B/C
O.	Meadow Restoration (Allowance)	\$6,600.00	A/B/C
Provide Stormwater BMPs			
S.	Stormwater Management (Allowance)	\$33,000.00	A/B/C
Stabilize the Stream Bank and Establish Riparian Forested Buffer			
P.	Riparian Buffer Restoration (Allowance)	\$16,500.00	A/B/C
Sub Total (Construction)		\$1,170,000.00	
<i>Contingency (20%)</i>		\$234,000.00	
<i>General conditions, Mobilization, Insurance, etc. (15%)</i>		\$175,500.00	
<i>Soft Costs - Design and Engineering (8%)</i>		\$93,600.00	
PRIORITY C - ESTIMATED TOTAL		\$1,673,100.00	**

** Does not include items to be determined.

4.3. REGULATORY REVIEW AND PERMITTING

During the design development and detailed design phases, it is anticipated that a number of regulatory reviews and permits will be required for the construction of the site improvements at the park. Given the agency review time and level of effort to fulfill the permit requirements, it is recommended to complete the permit application during preliminary engineering phase.

Upper Southampton Township

Prior to the implementation of the proposed construction improvements to the park, Land Development approval will be required from Upper Southampton Township land development ordinances, unless waived by the Supervisors.

Bucks County

Bucks County Conservation District (BCCD) review and approval will be required prior to construction of the site improvements. Any improvements that involves more than one acre of earth disturbance will require a National Pollution Discharge Elimination System (NPDES) stormwater permit. BCCD reviews and administers the NPDES permit under delegation of the Pennsylvania Environmental Protection Agency (PADEP), as well as erosion and sedimentation control program.

Pennsylvania

Pennsylvania Environmental Protection Agency (PADEP) governs several permits that may have an impact on the site improvements. The NPDES permit is reviewed and issued by the local conservation district. Chapter 102 permit requires an Erosion and Sedimentation Control Plan for earth disturbance during the construction of the site improvements. Chapter 105 permit deals with the stream encroachment and impact on waterways. Chapter 106 permit covers potential impacts for improvements within the 100-year floodplain.

Pennsylvania Natural Diversity Inventory (PNDI)

The Pennsylvania Natural Diversity Inventory Environmental Review Tool (PNDI) is used to perform searches for potential impacts to threatened, endangered, special concern species, and special concern resources. Four agencies have jurisdiction over these resources:

- U. S. Fish and Wildlife Service
- Pennsylvania Game Commission
- Pennsylvania Fish and Boat Commission
- Pennsylvania Department of Conservation and Natural Resources

When future projects are in the design phase, a PNDI search will be submitted.

PennDOT Highway Occupancy Permit (HOP)

Second Street Pike is a State Route (SR 0232) and therefore any improvements along Second Street Pike will require a Highway Occupancy Permit (HOP) from PennDOT.

4.4. POTENTIAL FUNDING SOURCES

Finding the funding for the design and construction of park improvement projects can be challenging, but following is a list of possible funding sources for this project:

Potential funding sources and partnership opportunities are available for the park improvements.

PA DCNR Community Recreation and Conservation Partnership Program (C2P2)

Community Recreation and Conservation grants are awarded to municipalities and nonprofit organizations for recreation, park and conservation projects. This grant provides funds for the rehabilitation of existing parks and for the development of new parks and recreation facilities; land acquisition for active and/or passive parks and conservation purposes; and planning for feasibility studies, trails studies, conservation plans, site development planning, and comprehensive recreation, greenway and open space planning. Most projects require a 50-50 match (cash or “in-kind” services). This grant is administered through the Bureau of Recreation and Conservation. Application period typically opens in January and closes in mid-April of the same calendar year.

PA DEP Growing Greener II

Growing Greener grants provide state funds to improve recreational opportunities and protect natural resources in Pennsylvania. Funds are distributed among four state agencies: the Department of Environmental Protection (DEP) for the restoring and protecting watersheds, reclaiming abandoned mines and plugging abandoned oil and gas wells; the Department of Agriculture (DOA) to administer farmland preservation projects; the Department of Conservation and Natural Resources (DCNR) for state park renovations and improvements; and the Pennsylvania Infrastructure Investment Authority for water and sewer system upgrades.

Growing Greener projects for the park could include Department of Environmental Protection funds for riparian buffer projects and riparian restoration projects and Department of Agriculture funding for agriculture preservation. It may be possible to coordinate and combine the Growing Greener funding with other grant sources.

Department of Community and Economic Development (DCED) Community Revitalization Funds

The Department of Community and Economic Development (DCED) provides funding opportunities to businesses and communities for economic development. Pennsylvania wants business and communities to prosper. The DCED and the Commonwealth offer business assistance to help organizations fund their projects or start a business, find a location, expand their business, or stay in Pennsylvania. The DCED has an open application period throughout the year, but it is recommended that the grant application be submitted as early as possible in the fiscal year after June 30th. This grant program provides a wide range of uses including acquisition of land, buildings, and right-of ways; trail, civic, and recreation projects; programs and developments that build capacity of the local community and relevant local organizations to better serve the needs of the community, and other reasonable and necessary expenses related to community-based activities.

Recreational Trail Program (RTP)

The Recreational Trails Program (RTP) provides federal funding for the development and maintenance of recreational trails and trail-related facilities for both non-motorized and motorized recreational trail uses. The RTP is an assistance program of the Department of Transportation's Federal Highway Administration (FHWA) and is funded by the federal fuel tax.

Match requirements for Pennsylvania Recreational Trails Program Grants (PRTP) are 80% grant money, up to a maximum of \$100,000, and 20% project applicant money. “Soft match” (credit for

donations of funds, materials, services, or new right-of-way) is permitted from any project sponsor, whether a private organization or public agency.

Eligible applicants may include federal and state agencies, local governments and private organizations. Funding may be used for the development of urban trail linkages near homes and work-places; maintenance of existing recreational trails; development of trail-side and trail-head facilities; provision of features that facilitate the access and use of trails by persons with disabilities; acquisition of easements for trails, or for trail corridors identified in a state trail plan; acquisition of fee simple title to property from a willing seller; and construction of new trails on state, county, municipal, or private lands.

Transportation Enhancements (SAFETEA-LU)

The Pennsylvania Department of Transportation (PennDOT) offers several SAFETEA-LU pedestrian and bicycle programs. Typically, a non-federal match is required of 20% of the grant award. PennDOT typically prefers a strategy that a local project partner prepares the construction documents and obtains necessary environmental clearances, property control documents and utility relocations plans as the match. These “pre-construction” tasks assure that the project is construction ready when using the Transportation Enhancements funds. The costs to prepare these documents can be the non-federal match to the Transportation Equity Act for the 21st Century (TEA-21) funds and does not necessarily need to be exactly 20% if all needed documentation can be completed for less.

Environmental Education Grants

The Pennsylvania Environmental Education Grants Program provides funding to schools, nonprofit groups and county conservation districts to expand current or develop new environmental education programs. The funds are administered through the Pennsylvania Department of Environmental Protection (PADEP) and may be used for a wide range of projects; hands-on lessons for students and teacher training programs to ecological education for community residents. Educational resources, including exhibits, educational signage, and demonstration projects, also qualify for funding.

The US Environmental Protection Agency (US EPA) provides another potential source of funding for environmental education programs. The US EPA offers grants of \$50,000 or less through its regional offices and grants up to \$100,000 through its headquarters in Washington, DC.

Grant programs that require matching funds present an opportunity for the Township to engage in targeted fundraising efforts and to partner with other public and private organizations. Foundations and other academic institutions represent another potential source of funding for education-related site improvements and programming.

Grants are available to support student field trips, provide teacher training in science, and provide other educational opportunities. Education tied to research can increase the pool of potential funds. The science community and research institutions are the logical starting points for soliciting foundation funds.

Upper Southampton Township and Bucks County

Some grant programs allow “in-kind” services in place of the cash match. It is strongly recommended that Upper Southampton Township and the County of Bucks keep detailed records of staff and official time spent working on or at the park. It may be possible to allow time spent to date to count as part

of the “in-kind” match for the funds. This record will also demonstrate a continuing commitment on the part of the Township and County to the successful implementation of the master plan.

Corporations

Corporations and foundations provide valuable opportunities for fundraising, gaining public attention and strong community partnerships. These partnerships can be very successful because they present corporations the opportunity to have a vested interest in their local environmental and recreation resources. This in turn instills a sense of pride and accomplishment with the partnering organization, by giving them the knowledge that they are helping build a stronger community. It is recommended that further research be performed to develop these opportunities.

Educational Institutions

Local schools and educational institutions of higher learning may also provide sponsorship and partnership opportunities. From assistance with fundraising for the park improvements to the seasonal maintenance of trail segments, these partnerships provide opportunities to build long-term support and success of the park. It is recommended that further research be performed to develop these partnership and sponsorship opportunities.

APPENDIX A

PLANS

KEY NOTES LEGEND:

- A** OUTER LOOP, SOUTHERN TRAIL
- B** OUTER LOOP CONNECTION TO RAIL TRAIL
- C** PARK OFFICE TO TRAIL LOOP
- D** PARKING LOTS TO PARK OFFICE
- E** OUTER LOOP, NORTHERN TRAIL
- F** PARKING LOT EXPANSION, 100 SPACES
- G** PARKING LOT EXPANSION, 85 SPACES
- H** PARKING LOT EXPANSION, 80 SPACES
- I** MAIN ENTRANCE DRIVE IMPROVEMENTS
- J** ACCESS DRIVE BRIDGE REPLACEMENT

KEY NOTES LEGEND:

- K** EXPAND EXISTING TENNIS COURT
- L** CONCERT / BANDSTAND AREA
- M** CHILDREN'S PLAY AREA IMPROVEMENTS
- N** RESTROOM IMPROVEMENTS (EXISTING)
- O** VEGETATION MANAGEMENT
- P** STREAMBANK STABILIZATION & RIPARIAN BUFFER RESTORATION
- Q** EMERGENCY ACCESS DRIVE
- R** RESTROOM FACILITIES (NEW)
- S** STORMWATER / BMPS



CONCEPT:

- PROVIDE ACCESSIBLE AND SAFE MULTI-USE TRAILS FOR RECREATION WITHIN TAMANEND PARK
- CONNECT THE TRAILS TO A LARGER REGIONAL TRAIL NETWORK AND FEATURES WITHIN THE PARK
- SURFACING: 10' MINIMUM BITUMINOUS PAVED TRAIL
- GRADE: 5% MAX. FOR ACCESSIBILITY

PENNONI ASSOCIATES, INC.
 1501 Main Street, Suite 220
 Warrington, PA 18976
 T 215.345.4591 F 215.345.7653

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

MASTER SITE DEVELOPMENT PLAN - TAMANEND PARK
 1255 2ND STREET PIKE
 SOUTHAMPTON, PA 18966

CONCEPT TRAIL PLAN

UPPER SOUTHAMPTON TOWNSHIP
 939 STREET ROAD
 SOUTHAMPTON, PA 18966

NO.	DATE	REVISIONS	BY

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES, AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

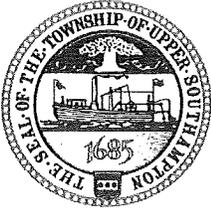
PROJECT: USHT1701
 DATE: 2017-12-01
 DRAWING SCALE: AS NOTED
 DRAWN BY: JTT
 APPROVED BY: CEB

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 PLOTTED: 2/16/2018 10:44:00 AM BY: JTT, Title: PLOTFILE: Pennoni\USHT1701.dwg PROJECT STATUS:

NOT FOR CONSTRUCTION

APPENDIX B

PUBLIC PARTICIPATION



UPPER SOUTHAMPTON TOWNSHIP

939 STREET ROAD • SOUTHAMPTON, PENNSYLVANIA 18966-4787

COUNTY OF BUCKS

PHONE: 215.322.9700 • FAX (215) 322-0405

www.ustwp.org

BOARD OF SUPERVISORS

Keith E. Froggatt, Sr., Chairman
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TOWNSHIP MANAGER

Joseph W. Golden

MEMORANDUM

TO: Tamanend Park Master Site Development Plan Study Committee Members

FROM: Joseph W. Golden, Township Manager 

DATE: June 7, 2017

SUBJECT: Tamanend Park Master Site Development Plan Study Committee

I am pleased to announce that the Board of Supervisors appointed the following individuals to the Tamanend Park Master Site Development Plan Study Committee:

Marian Gilbert, Park and Recreation Director

Ken Kline, Code Enforcement Officer

Patricia Myers, Park and Recreation Board Representative

Cynthia Kolesar, Environmental Advisory Council Representative

Mark Miller, Centennial School Board Representative

Andy Pickford, Friends of Tamanend Representative

Stephanie Miller, Township Resident Representative

Glenn Baun, Township Resident Representative

Congratulations on your appointment.

TAMANEND PARK MASTER PLAN – TRAILS
RESULTS OF RESIDENT SURVEY QUESTIONS

1. What is your zip code?
18966: 87
18954: 1
18974: 3
18976: 1
19006: 3

2. How far is your residence from the park?
Adjacent to the Park: 22
1 - 5 miles: 91
Greater than 5 miles: 2

3. How often, on average, do you use the park/trails?
Daily: 2/1
3 - 5 times a week: 3/4
1 or 2 times a week: 5/3
Once a Week: 3/2
A Couple of Times a Month: 1/1
Once a Month: 8/5
A Few Times a Year: 37/34
First Time: 1/0
Never: 1/11

4. How many people typically use the park/trails with you?
Alone: 14/11
One Person: 25/21
2 - 3 People: 16/15
4 - 5 People: 5/5
More than 5 People: 3/2

5. Please identify your age group.
16 – 25: 3
26 – 35: 8
36 – 45: 13
46 – 55: 22
56 – 65: 33
66 or Older: 23

6. Were any children under the age of 15 with you on your trail experience today?

Yes: 21

No: 35

7. What is your gender?

Male: 19

Female: 42

8. What is your primary activity on the trail?

Walking/Hiking: 47

Biking: 27

Jogging/Running: 14

Walking: 85

Pet: 36

XC Skiing/Snowshoeing: 2

Nature Walk: 47

Other: 5 - Photography, Bird Watching, Girl Scout Activities, Bingo, Very Poor Survey

9. Generally, when do you use the park and the trails?

Weekdays: 14

Weekends: 12

Both: 29

10. How much time do you generally spend on each visit to the park?

Less Than 30 Minutes: 13

30 Minutes to 1 Hour: 51

1 - 2 Hours: 42

More Than 2 Hours: 3

11. What time of day do you generally use the trail?

Morning: 13

Afternoon: 29

Evenings: 7

Anytime: 17

12. Would you consider your use of the trails to be for...

Recreation: 52

Health and Exercise: 55

Fitness Training: 8

Other: Walk, Family Time, Enjoy Nature, Dog Walking, None

13. If you could use the trails to commute, would it be something you would consider?

Yes: 54

No: 51

14. In your opinion, the maintenance of the park/trails is...

Excellent: 20/17

Good: 56/49

Fair: 18/26

Poor: 6/5

15. In your opinion, the safety and security at the park and along the trails are...

Excellent: 11/10

Good: 29/22

Fair: 13/16

Poor: 9/10

16. In your opinion, the cleanliness of the park/trails is...

Excellent: 19/18

Good: 30/27

Fair: 10/11

Poor: 2/2

17. Have you utilized any of these areas in the past year?

Farmhouse: 31

Carriage House: 36

Glenn Sokol Trail: 34

Richard Leedom Trail: 30

Bird Blind: 12

Beach Magnolia Glade: 11

Butterfly Garden: 31

Meadow: 16

Pavilion: 28

Tot Lot: 18

Tennis Courts: 11

Lion's Grove: 21

Tamanend Field: 31

Other: 3 - Everything, Creek, School Function, Frisbee Course

18. How do you typically access the trails in the park?

Drive to the Park: 49

Walk or Bike: 16

19. In your opinion, the trail parking facilities are...

Excellent: 10

Good: 35

Fair: 8

20. Would you use the trails more frequently if they were linked to a larger regional trail system?

Yes: 83

No: 27

21. In your opinion, do you think connecting to the proposed SEPTA Newtown "rail trail" is a benefit to the park and community?

Yes: 44

No: 13

22. What improvements would you like to see to the trails in Tamanend Park?

- Connect the trails to the SEPTA Newtown "Rail Trail."
- More paved trails, like the existing one to the Butterfly Garden.
- We have used the rail trail that currently starts at Byberry Road and LOVE it. We truly hope it goes through and we could enjoy Tamanend Park more!
- Add a few trash cans.
- Pave and extend the trails.
- I think they are OK as is.
- Connect to Newtown Rail Line.
- They are beautiful BUT I run alone and do not feel safe in the park at my age and in these current times. I used to run there frequently.
- More waste cans, trash cans, dog waste cans, wood chips on trails.
- Better maintenance, publish trail maps online or in brochure mailings. Couldn't find anywhere. I like to know distances.
- Get rid of dirt paths.
- This is not to be mean but with deer ticks, trails that are overgrown are dangerous. There are no trails. "Trails" are grass, not labeled, often overgrown.
- There's a large vine problem that should be addressed.
- More trash cans.
- Keep the trails clean and foliage cleared from them.
- Directional markers.
- More open areas along trail.
- Paved trails.
- Should have a Ranger to have security.
- Access from Strathman Drive.
- More park access. There should be a walking/biking path access from Strathman Drive or Churchville Road.

- More playground equipment.
- Paved.
- Map displays, trail signs.
- Bike access when rail trail is available. You might need more parking as the Byberry access point needed to expand.
- Improve the trail next to the Park office and take it straight back, curving into the “Rail/Trail” toward Southampton. Parking within the Park would allow people access to the trails in the Park and also to the “Rail/Trail.” The current parking is sufficient within the Park.
- Connect to Pennypack trail in Montgomery County.
- Smoother surface (less chance of twisting ankles).
- Gravel/Paved.
- Clearly mark trails.
- Improvement in the attention to detail by park maintenance staff. Pick up trash before mowing and not chop up trash. I do not know what the plan is for the trails but it seems as though they tear up the natural area at park for no reason. I have picked up trash from the trails for the last year with the hope that if people do not see trash they will not litter. The trails and park have improved significantly. I am a retired ranger/naturalist and see the great potential of Tamanend. I hope that the recreation staff and workers at Tamanend take the time to pick up trash as they do their jobs and have events at the park.

23. If you don't use the trails in Tamanend Park, please provide reason why or why not.

- Not convenient. Connect the trails and I will use them.
- I hope that bringing larger numbers of people into the Park does not disturb the existing wildlife.
- This would be a great asset to our community! We currently drive to H.V. to use the Trail more than Tamanend Park.
- I find Playwicki Farms, Core Creek Park and Tyler State Park more enjoyable, safer and easier to walk.
- Because of mobility problems I have used rarely.
- Security and Safety.
- As a senior, my outdoor activity is more indoors.
- I use Tyler and Playwicki on my way home from work. Paved and maintained trails better.
- Usually walk in our neighborhood park, but still enjoy occasional walks or hikes in Tamanend.
- Too overgrown.
- Since I usually walk by myself and twice came across person/persons that made me feel uncomfortable, I walk elsewhere.
- Security.
- We frequent Pennypack Trail. If they were connected, we would certainly utilize Tamanend's trails more.

- Walking is a problem for me.
- Need access from the neighborhood or from Churchville Road.
- I used it years ago to bring grandkids. My daughter had a few birthday parties there. Very nice except stuff (rice and all) all over floor so had to sweep first.
- If you wanted a survey about the trail project you should have put a survey out about that! Not confuse folks and use it for your data. Very unfair results!

24. Additional Comments:

- I would be able to walk to the Park easily if it is linked to the Rails to Trails.
- Looking forward to having the rail trail go through Southampton!!!
- It's a great park. Keep up the good work! The community appreciates having this local resource.
- Adding to the Rails will bring congestion, trash and other negativity to a beautiful park.
- Keep it simple.
- Thank you for Tamanend Park.
- Thank you for all you do.
- There is still litter where dumpster from carnival was.
- There was a large amount of litter (looked like dumped from a car; maybe have camera to see who did this) at entrance of park for weeks until I cleaned it. Disgusting. Also, why is bathroom locked? Put timer on bathroom like Warminster.
- Printing this survey on glossy paper made it impossible to fill out with a regular pen. Using a marker was also difficult. It's sad there is a large park that isn't used much. The trails are not paved, which makes it difficult.
- We enjoyed Tamanend Park Day 2017!
- I hesitate to walk the trails alone due to security concerns.
- Paved trail for biking.
- I would use every day if I had access that doesn't cut through private property.
- More entrances.
- Add paved trail for strollers.
- My people use the park – an addition to Southampton for many activities. I'm 77 now, have arthritis quite bad so use cane/walker.
- Same use but would love it linked to other rail trails.
- It is disheartening to see litter all over after events. I am hopeful that the waterway that had recent bridge work will be focus of trash pickup. There are many bottles, cans, household debris in the water. I would be happy to consult with park planners if they would like – mlhyduk@hotmail.com.
- Typical, just like Southampton! Love the park, not the trails! And you make up pay for Postage.
- Newtown has not approved it. Montgomery County is building trail – Sen. Greenleaf for.
- Let's not survey our way out of the bike trail through Upper Southampton. Tamanend Park has never been user friendly. Hope for your sake this is not political. Build Rails to Trail. Please publish results of this survey!!!

AGENDA

Tamanend Park Master Site Development Plan

Study Committee Meeting #1

Meeting date: Wednesday, July 12, 2017

Meeting time: 3:30 pm

Location: Upper Southampton Township Building

1. Welcome & Introduction of team members and stakeholders
2. Review project contacts and point persons for communication between committee & consultant
3. Review / determine committee anticipated meeting schedule
4. Review master plan process
5. Review project purpose and general approach
6. Review project schedule
7. Review existing conditions and opportunities & constraints:
 - Site accessibility
 - Existing trails and parking
 - Potential trail connections
8. Develop goals and objectives to improve the park's trails
9. Develop survey questions for the Township residents input on the trails and parking
10. Next Steps
11. Good & Welfare

ACTION ITEMS

- Trail survey questions for residents

**TAMANEND PARK MASTER SITE DEVELOPMENT PLAN
STUDY COMMITTEE MEETING #1
WEDNESDAY, JULY 12, 2017, 3:30 PM
UPPER SOUTHAMPTON TOWNSHIP BUILDING**

The first meeting for the Tamanend Park Master Site Development Plan was held on Wednesday, July 12, 2017 in the upstairs meeting room of the Township Building. The meeting was called to order by Marian Gilbert at 3:30 PM.

Members Present:

Marian Gilbert, Parks and Rec. Director
Mark Miller, Centennial School Board
Ken Kline, License and Inspections
Pat Myers, Chairman, Park and Rec. Board
Cynthia Kolesar, Environmental Advisory Council
Glen Baun, Resident
Andy Pickford, Friends of Tamanend

Also Present:

Joe Golden, Township Manager
Craig Bryson, Pennoni Associates
Ray Grossmuller, Township Supervisor
Tim U'Selis, Resident, Member Municipal Authority Board
Lou Sherman, Friends of Tamanend

WELCOME AND INTRODUCTION OF TEAM MEMBERS AND STAKEHOLDERS

REVIEW PROJECT CONTACTS AND POINT PERSONS

REVIEW PROJECT SCHEDULE AND ANTICIPATED MEETING SCHEDULE

- Completing Survey questions Mid-August
- Reviewing responses from survey questions, late September
- Reviewing a draft plan, Mid-November
- Presentation, Public Hearing of Plan to Board of Supervisors, December 5, 2017

REVIEW MASTER PLAN PROCESS AND DCNR GRANT APPLICATION PROCESS

Craig Bryson, Pennoni Associates – The goal is to use the Master Plan as a mechanism to apply for a grant to do improvements, which is due the first week of February. It's important to keep DCNR in the loop and aware of the Plan and follow the process. Written documents and steps need to be followed. The Master Plan will also help with future funding.

Ray Grossmuller – Interested in having outdoor concerts similar to Bensalem concerts sponsored by a bank, along with a family movie once a week. Discussion.

PROPOSED QUESTIONS FOR SURVEY – RESIDENT SURVEY QUESTIONS

- Yes or no questions are easier to tabulate for computer survey.
- At the end of the survey have additional comments
- Asking members to look at questions and come back with suggestions.
- Will be put in a Newsletter going to all Township residents.
- Will also advertise and ask people to come to public meetings.

KEY PERSON INTERVIEW – Critical to get DCNR Grant. Asking members for input.

TAMANEND PARK MAPS – Current maps are sufficient for Grant Application. Maps may not be accurate: Trails are old and overgrown, some added, some hidden by trees. Asking for volunteers to map out existing trails. In fall when leaves are down send a plane up to send signals down to more accurately map out trails.

MAIN OBJECTIVE: Get people into the park and put in some type of trail head and one main trail to meet and use the Regional Trail Line. Then start working on trail systems. DCNR likes to see comfort stations, bathrooms, which are very expensive, and parking. Make trail system more cohesive and identify usage: biking, walkers, etc. Would like to see one trail to go around the entire park, incorporating existing parts of the park. Trails suggested be at 12 feet wide for vehicular access. Identify possible future uses.

Q: Do trails need to be paved?

A: To be ADA accessible, trails need to be paved. Would like to keep trails with small grades to eliminate ramps and rails. Some trails can be gravel.

Q: What is maximum amount of money to ask for?

A: The end goal is to apply for as much funding as we can. The Township will match 20 percent.

Q: Where does funding come from?

A: DCNR funding comes from the State.

Q: Second access road?

A: Will be part of Master Plan.

Other funding is available for public work – state, county, etc. Grants can be applied for in phases, as long as you have the Master Plan.

Pat Myers and Cynthia Kolesar have volunteered to help out with trail mapping.

Marian will reach out to the Boy Scouts.

DEADLINES:

Survey Questions Deadline: Input to Marian by end of July.

Resident Survey Questions: Beginning of September.

August and first of September – contact people to be interviewed and Key Person Interviews.

Next Meeting Date: September 20, 2017, 3:30 PM

Adjournment of Meeting: 4:37 PM

AGENDA

Tamanend Park Master Site Development Plan

Study Committee Meeting #2

Meeting date: Wednesday, October 18, 2017

Meeting time: 3:30 pm

Location: Upper Southampton Township Building

1. Welcome
2. Project Overview and Project Status
3. Review summary of survey questions for the Township residents
4. Prioritize survey comments
5. Additional Comments and Suggestions
6. Next Steps
7. Set and confirm future meeting dates
8. Good & Welfare

ACTION ITEMS

- Status of topographic and boundary survey for the project site

**TAMANEND PARK MASTER SITE DEVELOPMENT PLAN
STUDY COMMITTEE MEETING #2
WEDNESDAY, OCTOBER 18, 2017, 3:30 PM
UPPER SOUTHAMPTON TOWNSHIP BUILDING**

The regular meeting for the Tamanend Park Master Site Development Plan was held on Wednesday, October 18, 2017 in the 1st Floor Meeting Room of the Township Building. The meeting was called to order by Marian Gilbert at 3:30 PM.

Members Present:

Marian Gilbert, Park and Recreation Director
Christopher Jennings, Environmental Advisory Council member
Ken Kline, Licenses and Inspection
Pat Myers, Chairman, Park and Recreation Board
Stephanie Miller, Resident
Glen Baun, Resident
Andy Pickford, Friends of Tamanend member

Also Present:

Joseph W. Golden, Township Manager
Craig E. Bryson, Pennoni Associates
Joel T. Totten, Pennoni Associates

There was a discussion regarding corrections to the Minutes of July 12, 2017.

The corrections to be made are the spelling of Pennoni and Kolesar in two spots.

Mr. Bryson spoke about the width of the trails. Mr. Golden mentioned that the width of the Pennypack Trail is 12' wide crushed stone; the same is planned for when the rails to trails project is extended into the Upper Southampton Township. Mr. Bryson stated that an 8' wide asphalt trail with 2' shoulders is very common.

Ms. Myers asked if 8' is wide enough for two bikes to pass. Mr. Bryson explained that the 8' trail is actually 12' wide. Ms. Myers pointed out that there may be more traffic because residents of Northampton will also use the trail. There was further discussion regarding the width and construction of the trails and the costs to be evaluated.

A MOTION WAS MADE BY MS. MYERS TO APPROVE THE MINUTES OF JULY 12, 2017 AS CORRECTED; SECONDED BY MR. BAUN, CARRIED WITH A VOTE OF 6-0-0.

WELCOME:

Ms. Gilbert welcomed the Board and all in attendance. Christopher Jennings of the Environmental Advisory Council introduced himself and stated he was in attendance for board member, Cynthia Kolesar.

PROJECT OVERVIEW AND PROJECT STATUS:

Ms. Gilbert stated that the meeting is to go over the summary of the survey questions presented to the Township residents.

REVIEW SUMMARY OF SURVEY QUESTIONS FOR THE TOWNSHIP RESIDENTS:

Ms. Gilbert explained that the majority of the respondents to the survey were from the 18966 zip code and over 100 responses were received.

Ms. Gilbert read the results of the survey questions.

ADDITIONAL COMMENTS AND SUGGESTIONS:

Ms. Myers asked Mr. Golden if there has been any security issues at Tamanend Park because security seemed to be brought up a lot in the survey comments. Mr. Golden could not recall any. Ms. Myers said she has never encountered any problems in the park.

Mr. Pickford added that when the Park and Recreation Department office was in Tamanend Park there was a perception among people that it was safer. Ms. Myers believes when everything is finished there will be more activity and people will feel safer.

Mr. Totten said people may be comparing Tamanend Park to Tyler Park which is a State park. There are park rangers in State parks.

Mr. Bryson commented blue light phones, which are a direct link to emergency services, could be installed along the trail. He continued that it is relatively easy and inexpensive.

Ms. Gilbert commented that the park gives the perception of being a spooky forest right now because the trails are little used and are not paved. She continued that once the trails are improved it will not be perceived that way.

NEXT STEPS:

Mr. Bryson noted from the survey responses that people use the park only a few times a year. In order to increase usage, he suggested adding activities, not organized sports activities, which would attract a younger generation.

Mr. Bryson presented a plan of Tamanend Park to the committee. The plan sketched a mile long looped trail in Tamanend Park with a link to the proposed rail to trail and a link to Klinger School. The one mile loop incorporated some of the existing trails and also provides opportunities for further expansion, including adding fitness stations. He stated that this plan is a starting point and wanted input from the committee members.

Ms. Myers said the consensus among the Park and Recreation Board was a looped trail.

Mr. Bryson said that the plan proposes to expand and improve the parking areas and to comply with the accessibility regulations. The link to Klinger School also provides access to the parking lot at Klinger School and provides another access point for maintenance and police.

Mr. Bryson suggested the development of a plan to eliminate some of the invasive species, unwanted vegetation and dead trees in the Park. Ms. Gilbert said there is grant funding available for this purpose and she explained the process.

Members of the board named some of the invasive species in the Township. Ms. Myers stated that wild grape is found on adjoining properties that has a major impact on woodlands. Mr. Golden said that the Township may need to address the clearing of the invasive vegetation, vines and preserving trees as a separate project.

Mr. Kline asked if any evaluations were done about the ash trees and Ms. Gilbert stated a survey was done and she will bring it to the next meeting.

SET AND CONFIRM FUTURE MEETING DATES:

Mr. Bryson stated that the plan will be revised and discussed at next meeting. It will then be presented to the Board of Supervisors on December 5, 2017. The deadline to apply for a grant is March 2018.

Mr. Bryson will email a draft plan to the members prior to the next meeting.

Mr. Baun asked about costs. Mr. Bryson estimated the cost of constructing a paved trail is \$1 million per mile, which is the size of the trail proposed for this project. The cost does not include improving the parking lots.

Ms. Myers asked if there have been any water issues near the railroad. Mr. Bryson stated that no engineering analysis has been done yet but they will look into it. He continued that they could add gravel and check for the presence of wetlands.

Mr. Baun asked about access roads and right of ways to the proposed rails to trails project. Mr. Golden stated there are two public access points: Tamanend Park and the train station property.

Next Meeting Date: November 15, 2017, 3:30 PM

Adjournment of Meeting: 4:10 PM

AGENDA

Tamanend Park Master Site Development Plan Study Committee Meeting #3

Meeting Date: Wednesday, November 29, 2017

Meeting Time: 3:30 PM

Location: Upper Southampton Township Building

CALL TO ORDER

APPROVAL OF THE MINUTES – October 18, 2017

BUDGET REVIEW

FRIENDS OF TAMANEND MEETING UPDATE

ADJOURNMENT

**TAMANEND PARK MASTER SITE DEVELOPMENT PLAN
STUDY COMMITTEE MEETING #3
WEDNESDAY, NOVEMBER 29, 2017, 3:30 PM
UPPER SOUTHAMPTON TOWNSHIP BUILDING**

The regular meeting for the Tamanend Park Master Site Development Plan was held on Wednesday, November 29, 2017 in the 1st Floor Meeting Room of the Township Building. The meeting was called to order by Marian Gilbert at 3:30 PM.

Members Present:

Marian Gilbert, Park and Recreation Director
Cynthia Kolesar, Environmental Advisory Council
Andy Pickford, Friends of Tamanend member
Pat Myers, Chairman, Park and Recreation Board
Stephanie Miller, Resident
Glen Baun, Resident

Also Present:

Joseph W. Golden, Township Manager
Craig E. Bryson, Pennoni Associates
Joel T. Totten, Pennoni Associates

WELCOME:

Ms. Gilbert welcomed the Board and all in attendance.

APPROVAL OF THE MINUTES:

The Committee reviewed and approved its Minutes of October 18, 2017.

Ms. Gilbert presented the minutes of a meeting with the Friends of Tamanend held on November 16, 2017. Mr. Pickford stated that the meeting went well and that the plan was favorable. Ms. Gilbert stated that the Friends of Tamanend were grateful to be brought up to speed with everything concerning the Tamanend Park Master Site Development Plan. She continued that they were on board with helping out financially. She stated that the Friends of Tamanend are meeting on December 12, 2017 and would let her know about donating funds.

DISCUSSION OF TAMANEND PARK MASTER SITE DEVELOPMENT PLAN:

Mr. Totten presented a Master Site Development Plan – Tamanend Park Concept Trail Plan and a Preliminary Opinion of Probable Costs in the amount \$3,968,250, both dated December 1, 2017. The probable costs include trail and parking lot improvements, storm water management, erosion and sedimentation control, handrails and fencing, retaining wall, parking lot lighting, and design and engineering. He stated that this plan was refined from the previous plan with emphasis on trail alignment to topography and connections to the parking lots and other facilities within the park. Both documents are attached to these minutes.

Mr. Totten identified some of key features on the plan. He showed the proposed looped trail system on the plan. It is a paved 10 feet wide trail, a little over a mile in length, to be shared by pedestrians and bicyclists. He also explained that the three existing parking lots will be expanded and improved: there will be a 100 space parking lot, an 88 space parking lot, and an 80 space parking lot with lights and storm water management. The trails will be connected to the parking lots. Also included on the plan is a picnic area on the northern side of parking lot F (the 100 space parking lot). He said this could be the site for an amphitheater. He also identified area L as a concert/bandstand area.

Mr. Golden said this project will likely be constructed in phases and is dependent upon receiving grant funds. Mr. Totten said that is the best way to approach it.

Mr. Baun feels that parking and trail access are top priorities. He questioned whether the proposed parking will be sufficient to handle the new trail and the link to the rails to trails project. He would like to compare our parking capacity with that of the Pennypack Trail in Montgomery County.

Ms. Myers asked about trail lighting. Mr. Totten stated that trail lighting and security lighting is possible, but the cost is quite high. Ms. Myers questioned whether trail lights are cost effective.

Ms. Myers also asked if directional signs are included in the budget. Mr. Totten stated signage would be included in the budget.

Ms. Myers asked about a directional bulletin board kiosk. Ms. Gilbert added that a cell phone app could be developed to provide directions. Mr. Totten stated that these could be included in the grant application.

Mr. Pickford asked if the large overflow parking area which is used during Southampton Days would be included in the plan. There was concern raised by the committee about the amount of storm water in this parking area during moderate to heavy rain events.

OTHER SUGGESTED TAMANEND PARK PROJECTS:

Mr. Totten said the master plan may include other types of improvements; it does not need to be solely directed at the trails and parking. Even though the Township will be applying for DCNR grant funds for trails, there are various grant funds available for other types of projects. He explained that one of the major benefits of developing a master plan occurs when applying for grant funds. DCNR and other entities look to a master plan when deciding who to award grant funds to. A major part of a master plan is the public participation process and the approval of the plan by the governing body. Identifying the various needs through a public process goes a long way toward receiving grant funds.

Mr. Golden asked if there was anything else anyone wanted to add to the plan other than what was already discussed.

Ms. Myers suggested that the playground be expanded to include more age groups.

Ms. Gilbert suggested the replacement of the single lane bridge/culvert leading to the Carriage House and Farmhouse.

Ms. Gilbert and Ms. Myers suggested adding two more tennis courts for a total of four. Mr. Totten questioned whether to include a shaded seating structure for the courts. Ms. Myers stated that there are already numerous trees that provide shade and thwart wind. Ms. Gilbert stated that the Park and Recreation Board support the addition of two tennis courts and bridge/culvert replacement.

Mr. Baun suggested a second access road into the park for emergency vehicles because the only emergency vehicle access is through a church parking lot.

Mr. Golden asked if we should relocate the softball fields and then use that area as a multi-purpose open field. (He suggested developing the Township owned property on Davisville Road for softball, complete with fields, concession/restrooms/storage building, parking lot and field lighting - similar to the improvements made to Veterans Field.) Ms. Myers pointed out that there have not been any requests to use it as a multi-purpose open field.

Discussion led to the amphitheater and the need for lots of parking to support an amphitheater. Mr. Golden said the Board of Supervisors feels the Lion's Grove is sufficient for an amphitheater at this time. Mr. Baun agreed they should try it and see how it works. Ms. Myers is concerned about traffic and feels the park would have to be totally redeveloped. Ms. Myers and Mr. Baun expressed that the park is not designed or big enough for an amphitheater of the size in Bensalem Township.

Ms. Gilbert added that the Park and Recreation Board recommend upgrading the bathrooms.

Mr. Baun stated that the trail system throughout the park is quite extensive, but there is a need to remove the invasive vegetation and cut back growth. He also suggested removing some of the low priority trails because there are too many to maintain. Mr. Pickford stated that the Friends of Tamanend also supported this.

Ms. Myers suggested reviewing the lighting in front of the Carriage House, Office and Farmhouse area.

Ms. Kolesar asked if permeable asphalt is available. Mr. Totten stated that it is a challenge because of the woodland cover. It would have to be vacuumed and maintained regularly. He emphasized that storm water management facilities are part of the plan.

Ms. Gilbert stated that she will conduct key person interviews, based on questions prepared by Pennoni Associates, in the next month or so as part of the public participation process.

Ms. Myers stated that the community is anticipating completion of the Rails to Trails project and this is a nice complement to it.

Mr. Golden stated that this plan will be presented at the December 5, 2017 Board of Supervisors meeting. A public hearing will be held later.

Adjournment of Meeting: 4:35 PM

Rita Donovan, Recording Secretary

KEY NOTES LEGEND:

- A OUTER LOOP, SOUTHERN TRAIL
- B OUTER LOOP CONNECTION TO RAIL TRAIL
- C PARK OFFICE TO TRAIL LOOP
- D PARKING LOTS TO PARK OFFICE
- E OUTER LOOP, NORTHERN TRAIL
- F PARKING LOT EXPANSION, 100 SPACES
- G PARKING LOT EXPANSION, 85 SPACES
- H PARKING LOT EXPANSION, 80 SPACES
- I MAIN ENTRANCE DRIVE IMPROVEMENTS
- J ACCESS DRIVE BRIDGE REPLACEMENT
- K TENNIS COURT EXPANSION
- L CONCERT / BANDSTAND AREA
- M PLAYGROUND IMPROVEMENTS
- N RESTROOM IMPROVEMENTS
- O VEGETATION MANAGEMENT
- P RIPARIAN BUFFER RESTORATION
- Q EMERGENCY ACCESS DRIVE

KEY NOTES LEGEND:

- R PROPOSED PARKING EXPANSION (TYP) (100 SPACES +/-)
- S PROPOSED PARKING EXPANSION (TYP) (85 SPACES +/-)
- T PRIMARY TRAIL LOOP PAVED TRAIL (TYP)
- U PROPOSED PARKING EXPANSION (TYP) (80 SPACES +/-)
- V SECONDARY TRAIL TO REMAIN TRAIL (TYP)

CONCEPT FOR ACCESSIBLE AND SAFE MULTI-USE TRAILS FOR RECREATION IN THE TAMMEND PARK NETWORK AND FEATURES WITHIN THE PARK:

- CONNECT THE TRAILS TO A LARGER REGIONAL TRAIL NETWORK AND FEATURES WITHIN THE PARK
- SURFACING: 10' MINIMUM BITUMINOUS PAVED TRAIL
- GRADE: 5% MAX FOR ACCESSIBILITY

CONNECT TO PROPOSED REGIONAL TRAIL NETWORK

PRIMARY TRAIL LOOP PAVED TRAIL (TYP)

SECONDARY TRAIL TO REMAIN TRAIL (TYP)



NOT FOR CONSTRUCTION

Pennoni
 PENNONI ASSOCIATES INC.
 1501 MAIN STREET, SUITE 200
 SOUTHINGTON, PA 19388
 T 215.345.4591 F 215.345.7833

ALL ENGINEERS MUST BE VERIFIED BY CONTRACTOR
 DISCREPANCIES BETWEEN PROCEDURES WITH WORK
 AND ON-SITE CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

MASTER SITE DEVELOPMENT PLAN - TAMMEND PARK
 CONCEPT TRAIL PLAN
 1501 MAIN STREET, SUITE 200
 SOUTHINGTON, PA 19388
 UPPER SOUTHAMPTON TOWNSHIP
 500 NORTH MAIN STREET
 SOUTHAMPTON, PA 18986

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CS1001
 SHEET 1 OF 1

Tamanend Park Master Site Development Plan - Trail Improvements

Preliminary Opinion of Probable Costs - December 1, 2017

KEY ITEM	QTY.	UNIT	LOW RANGE	HIGH RANGE
TRAIL - 10' wide, bituminous pavement				
A. Outer Loop, southern trail	2,945	LF	\$315,000	\$350,000
B. Outer Loop connection to Rail Trail	450	LF	\$40,000	\$60,000
C. Park Office to Trail Loop	675	LF	\$70,000	\$85,000
D. Parking lots to Park Office	900	LF	\$90,000	\$120,000
E. Outer Loop, northern trail	3,575	LF	\$385,000	\$425,000
Retaining wall - segmental block (allowance)	450	LF	\$30,000	\$60,000
Handrail and/or fencing (allowance)	250	LF	\$15,000	\$30,000
Stormwater Management (allowance)	1	LS	\$50,000	\$125,000
Erosion & Sedimentation Control (allowance)	1	LS	\$20,000	\$70,000
Trail - Construction Sub Total			\$1,015,000	\$1,325,000
<i>Contingency (20%)</i>			\$203,000	\$265,000
<i>General conditions, Contractor Mobilization, Insurance, etc. (15%)</i>			\$152,250	\$198,750
<i>Soft Costs - Design and Engineering (8%)</i>			\$81,200	\$106,000
TRAIL - ESTIMATED TOTAL			\$1,451,450	\$1,894,750
PARKING - bituminous pavement				
F. 100 Space Parking Lot Paving - Full depth	3,832	SY	\$275,000	\$315,000
G. 85 Space Parking Lot Paving - Full depth	4,528	SY	\$350,000	\$390,000
H. 80 Space Parking Lot Paving - Full depth	3,388	SY	\$240,000	\$360,000
Stormwater Management (allowance)	1	LS	\$100,000	\$125,000
Erosion & Sedimentation Control (allowance)	1	LS	\$40,000	\$70,000
Light poles, foundations, conduit and wiring	30	EA	\$150,000	\$190,000
Parking Lot - Construction Sub Total			\$1,155,000	\$1,450,000
<i>Contingency (20%)</i>			\$231,000	\$290,000
<i>General conditions, Contractor Mobilization, Insurance, etc. (15%)</i>			\$173,250	\$217,500
<i>Soft Costs - Design and Engineering (8%)</i>			\$92,400	\$116,000
PARKING LOT - ESTIMATED TOTAL			\$1,651,650	\$2,073,500
I. Main Entrance Improvements				To be determined
J. Access Drive Bridge Replacement				To be determined
K. Tennis Court Expansion				To be determined
L. Concert Area				To be determined
M. Playground Improvements				To be determined
N. Restroom Improvements				To be determined
O. Vegetation Management				To be determined
P. Riparian Buffer Restoration				To be determined
Q. Emergency Access Drive				To be determined

**TAMANEND PARK MASTER SITE DEVELOPMENT PLAN
STUDY COMMITTEE MEETING #4
THURSDAY, MARCH 22, 2018, 3:00 PM
UPPER SOUTHAMPTON TOWNSHIP BUILDING**

The regular meeting for the Tamanend Park Master Site Development Plan was held on Thursday, March 23, 2018 in the 1st Floor Meeting Room of the Township Building. The meeting was called to order by Pat Myers at 3:00 PM due to Marian Gilbert's attendance at a conference.

Members Present:

Ken Kline, Licenses and Inspection
Pat Myers, Chairman, Park and Recreation Board
Cynthia Kolesar, Environmental Advisory Council
Andy Pickford, Friends of Tamanend Member
Glen Baun, Resident

Also Present:

Joseph W. Golden, Township Manager
Craig E. Bryson, Pennoni Associates
Joel T. Totten, Pennoni Associates
Eric Schaefer, Resident

WELCOME:

Ms. Myers welcomed the Committee and all in attendance.

APPROVAL OF THE MINUTES:

The Committee reviewed and approved the Minutes of November 29, 2017.

A MOTION WAS MADE BY MR. BAUN TO APPROVE THE MINUTES OF THE NOVEMBER 29, 2017 MEETING; SECONDED BY MS. KOLESAR; CARRIED WITH A VOTE OF 4-0-1; MR. KLINE ABSTAINED.

DISCUSSION OF TAMANEND PARK MASTER SITE DEVELOPMENT PLAN:

Ms. Myers stated that this is the final draft of the Tamanend Park Master Site Development Plan.

Mr. Bryson stated that he incorporated into the plan some highlights from the last meeting, including an emergency access road from Second Street Pike into the park without the need to cross the stream and the relocation of Item B where the rails to trail meets the Tamanend Park trail. He also refined construction cost estimates and developed a plan for applying for the DCNR Grant. He recommends that the Township submit a grant application in the amount of \$600,000 with the Township's match at \$300,000. He detailed the project scope of the DCNR Grant application, which includes expanding the uppermost parking lot to 80 parking spaces (Item H on plan) with lighting and storm water management facilities. Also, construct an ADA trail along Item C, a portion of Item A and all of Item B. This trail will connect to parking lots G and H and to the rails to trails. This would be Phase I of the Tamanend Park

Master Site Plan development. The emphasis is to provide more parking for Township recreational activities and to connect Tamanend Park to the rails to trails.

Mr. Schaefer asked if Item B as identified on the plan is where the Tamanend Park trail connects to the Rails to Trails. Mr. Bryson stated yes.

Ms. Myers asked about Parking Lot H and which way it was going to be expanded. Mr. Bryson stated in both directions. He also stated that the Leedom Trail is going to get a facelift: a redo of that trail, modifying it, paving it and put stormwater in it.

Ms. Myers asked if Mr. Bryson was going to do underground work and he stated the requirements are to do volume control, such as a rain garden and that if he can get enough rate control out of an above ground basin; if not, he will do percolation underneath the parking lot.

Ms. Kolesar asked if grant money was available for stormwater studies. Mr. Totten explained that it is a requirement now to get these permits if you want to develop. He continued that it is also part of the DCNR grant which the Township's applying for, and certain criteria is met such as best stormwater management practices, native landscaping and that above ground systems are going to provide opportunities for wildlife habitat, native landscape and reduction in maintenance costs.

Mr. Golden stated that the this plan will be presented to the Board of Supervisors at its public meeting on Tuesday, April 3, 2018 at 7:00 PM for public comment, discussion and perhaps adoption.

Mr. Schaefer noted that he was very impressed with the plan update and that he thought it was very thorough. He stated that he liked how it was laid out including the history, background and potential future projects for the phases, both concrete and abstract.

Mr. Schaefer asked about supplementing new trees. Mr. Totten stated that the intent is to remove rather than planting new. He continued that there is a large amount of invasive species.

Ms. Myers agreed that the trees are dying and need to be removed; a lot of them are hazards. She said the poison ivy and wisteria also needs to be removed if possible.

Mr. Golden asked the Committee their opinion on trail lighting. Mr. Schaeffer said the park is open from sunrise to sunset; lighting is not important, but signage is. Ms. Myers stated the rules and regulations for the park state it is open from dawn to dusk except for an activity going on. The majority of the Committee felt that lighting was not necessary and that it was expensive; they felt signage was more important.

A MOTION WAS MADE BY MR. BAUN TO RECOMMEND ADOPTION BY THE BOARD OF SUPERVISORS OF THE TAMANEND PARK MASTER SITE PLAN; SECONDED BY MR. PICKFORD; CARRIED WITH A VOTE OF 5-0.

OTHER BUSINESS:

Mr. Golden explained that the Bucks County Planning Commission will hold an Open Plans Display at the Community Center on April 3, 2018 from 5:30 PM to 7:00 PM regarding the conversion of the former SEPTA rail line between County Line Road and Bristol Road to a walking and bicycling trail in Upper Southampton Township. He explained that it will be an open house format where the County will have

prepared a dozen or more display boards for viewing by the public. In addition, Bucks County Planning Commission staff will be available to discuss and answer questions. Mr. Pickford stated that Newtown residents are interested in attending the Open House.

Mr. Pickford stated that he spoke to Tri-State Engineers to do an aerial ground control and boundary survey to make mapping accurate. He continued that it should be completed between now and the second or third week in April.

ADJOURNMENT:

A MOTION WAS MADE BY MR. BAUN TO ADJOURN THE MEETING AT 3:30 PM; SECONDED BY MR. PICKFORD; CARRIED WITH A VOTE OF 5-0-0.

Rita Donovan, Recording Secretary

TAMANEND PARK MASTER PLAN
KEY PERSON INTERVIEW

PARTICIPANT NAME: _____

1. Which age groups appear to be least/best served in the area? BEST = YOUTH GROUP 4-17
LEAST = YOUTH GROUP 21-30
2. Are there any additions or changes that you feel could improve recreational trail opportunities?

NONE EXIST - BUILD IT

THERE ARE NO STREET MARKINGS FOR BIKES

3. Are there any additions or changes that you feel could improve park facilities and the trail system?

NO AREAS ARE DESIGNATED

OR SETUP FOR BIKES AND PEDESTRIANS

4. What key issues are facing the provision of recreation opportunities in the community?

EDUCATION AND COMMUNITY ORGANIZATION

LACKING - BENEFITS OF WALKING AND ECONOMIC BENEFITS

5. What economic benefit do you feel this opportunity will create?

MAKES OUR COMMUNITY AND NEIGHBOURDS MORE

LIVABLE AND ATTRACTIVE

6. Before receiving this, what did you already know about this proposed project? What did you hear?

GRANT MONIES WERE APPLIED AND GRANT

WAS MADE AVAILABLE

7. Do you know of any sensitive topics or areas of concern that the Study Committee should be aware of and know about?

NEIGHBORS HAVE MISCONCEPTION ABOUT

PROPERTY VALUES, NUISANCES, POLICE PROBLEMS WITH
YOUTH CONCREATING - PROPERTY DAMAGE

8. What are the most critical issues and concerns you have about the trails and parking facilities at Tamanend Park?

LACK OF ADEQUATE FUNDING

AND LACK OF COMMUNITY SUPPORT

9. Do you think the potential access and connection to the proposed SEPTA Newtown "Rails to Trails" is a benefit to the park and community? YES

10. Do you have any concerns about connecting to a larger trail system?

IF DONE PROPERLY NONE

11. If developed, what should the trails look like?

NATURE LIKE NOT A SUPER HIGHWAY

12. If the park's trails were improved, what are your biggest concerns (funding, environmental impacts, safety, etc.)?

LACK OF YEARLY FUNDING TO MAINTAIN IT

13. If no improvements are made, what do you think will happen to the trails and the park: short-term, medium-range and long-term?

IT WILL BECOME A DUMPING SITE

AND ENDLESS EYE SORE

14. What kinds of facilities should be considered as part of this study: parking, trail head, trail types, user groups?

WATER FOUNTAINS, BEST FACILITIES, TRASH DISPOSAL

CONTAINERS, PLANTINGS, FLOWER GARDENS, LANDSCAPING
SIGNAGE

15. Do you know any other individuals/groups that we should contact about this project?

CHURCH GROUPS (XO), YMCA, CHURCH MINISTERS

MEDICAL PROFESSIONALS, BIKES CLUBS,

U.S.T. BOARDS AND COMMISSIONS, PLUMBER DEPT PERSONNEL

THANK YOU FOR YOUR PARTICIPATION!

TAMANEND PARK MASTER PLAN
KEY PERSON INTERVIEW

PARTICIPANT NAME: _____

1. Which age groups appear to be least/best served in the area? All Ages.
2. Are there any additions or changes that you feel could improve recreational trail opportunities?
open clear trails where people could use in various groups from novices to experts.
3. Are there any additions or changes that you feel could improve park facilities and the trail system?
clean open trails and connections to others.
4. What key issues are facing the provision of recreation opportunities in the community?
Lack of them, we have a park but there is not enough advertisement to them.
5. What economic benefit do you feel this opportunity will create?
With the connection to Parks to trails, it could bring more people to use our Park trails.
6. Before receiving this, what did you already know about this proposed project? What did you hear?
Yes, I have been watching this project very closely and I am interested in the project.
7. Do you know of any sensitive topics or areas of concern that the Study Committee should be aware of and know about?
Further Expansion and Future Use for the entire community

8. What are the most critical issues and concerns you have about the trails and parking facilities at Tamanend Park?

Keeping Nature Intact but Making Parking
& Access Modern & Safe.

9. Do you think the potential access and connection to the proposed SEPTA Newtown "Rails to Trails" is a benefit to the park and community? Yes.

10. Do you have any concerns about connecting to a larger trail system?

No Concerns except Safety of Community and
General Public.

11. If developed, what should the trails look like?

A Perfect Blend of Modern & Natural Settings.
where there is little to no Impact on the current setting.

12. If the park's trails were improved, what are your biggest concerns (funding, environmental impacts, safety, etc.)?

Flooding, Land Erosion, Public Safety.

13. If no improvements are made, what do you think will happen to the trails and the park: short-term, medium-range and long-term?

stagnant growth and loss of Potential Revenue.

14. What kinds of facilities should be considered as part of this study: parking, trail head, trail types, user groups?

Future Expansion, Public Usage, Possible Public Music
Grandstand, Possible outdoor Movie Nights.

15. Do you know any other individuals/groups that we should contact about this project?

Historical Society, Planning Commission, Southampton
Days Committee, Rotary, Lyons Club, Boy & Girl Scouts

THANK YOU FOR YOUR PARTICIPATION!

**UPPER SOUTHAMPTON BOARD OF SUPERVISORS
MEETING MINUTES
DECEMBER 5, 2017**

A regular meeting of the Upper Southampton Township Board of Supervisors was held on Tuesday, December 5, 2017 at 7:00 PM in the Southampton Free Library, Lower Level Meeting Room, 947 Street Road, Southampton, PA 18966.

MEMBERS PRESENT:

Keith E. Froggatt, Sr., Chairman
Marguerite C. Genesisio, Vice Chair
Lola G. Biuckians, Secretary/Treasurer
Stephen A. Wallin, Asst. Secretary/Treasurer
Raymond M. Grossmuller, Member

ALSO PRESENT:

Joseph W. Golden, Township Manager
Donald E. Williams, Township Solicitor
Ann Alker, Assistant Township Manager/Finance Director
Mark Showmaker, Fire Marshal/Director of Licenses & Inspections
Ronald MacPherson, Chief of Police
Marian Gilbert, Director of Parks and Recreation
Craig Bryson, Township Planner

Ch. Froggatt called the meeting to order at 7:00 PM. A quorum was established.

ANNOUNCEMENTS, AWARDS, REPORTS, AND CORRESPONDENCE:

Ch. Froggatt announced that an Executive Session was held prior to the meeting to discuss real estate and collective bargaining. He stated that an Executive Session was also held on November 29, 2017 to discuss collective bargaining.

COMMUNITY CONCERNS:

There were no community concerns.

CONSIDERATION OF APPROVING THE REGULAR MEETING MINUTES OF NOVEMBER 8, 2017:

A MOTION WAS MADE BY MS. GENESIO TO APPROVE THE REGULAR MEETING MINUTES OF NOVEMBER 8, 2017; SECONDED BY MR. GROSSMULLER; CARRIED WITH A VOTE OF 5-0-0.

CONSIDERATION OF APPROVING THE NOVEMBER 21, 2017 INVOICES FOR PAYMENT:

Mr. Golden presented the Accounts Payable for November 21, 2017 as follows:

001 General Fund - \$14,806.47
002 Street Lighting Tax Fund - \$9,848.52

005 Park and Recreation Fund - \$11,389.99
009 Garbage and Refuse Fund - \$23,637.45
032 Storm Water Capital Reserve - \$1,711.00
035 Highway Aid Fund - \$192.48

A MOTION WAS MADE BY MR. GROSSMULLER TO APPROVE THE ACCOUNTS PAYABLE FOR NOVEMBER 21, 2017 IN THE AMOUNT OF \$61,585.91 AND ESCROW PAYMENTS IN THE AMOUNT OF \$3,939.89; SECONDED BY MS. GENESIO; CARRIED WITH A VOTE OF 5-0-0.

CONSIDERATION OF APPROVING THE DECEMBER 5, 2017 INVOICES FOR PAYMENT:

Mr. Golden presented the Accounts Payable for December 5, 2017 as follows:

001 General Fund - \$71,959.52
002 Street Lighting Tax Fund - \$6,855.15
005 Park and Recreation Fund - \$12,521.36
007 Library Tax Fund - \$166.50
009 Garbage and Refuse Fund - \$106,232.93
031 Post-Employment Benefit Fund - \$9,582.20
032 Storm Water Capital Reserve - \$484.00
035 Highway Aid Fund - \$1,352.68

A MOTION WAS MADE BY MR. GROSSMULLER TO APPROVE THE ACCOUNTS PAYABLE FOR DECEMBER 5, 2017 IN THE AMOUNT OF \$209,154.34; SECONDED BY MS. GENESIO; CARRIED WITH A VOTE OF 5-0-0.

DISCUSSION OF ADDRESSING CUT-THROUGH TRAFFIC AND SPEED ON THE 500 BLOCK OF CUSHMORE ROAD FOR THE PURPOSE OF IMPROVING PUBLIC SAFETY:

Mr. Golden presented a Memorandum dated November 30, 2017 with ideas on how to control cut-through traffic and speed on the 500-600 block of Cushmore Road for the purpose of improving public safety. Mr. Golden's memorandum is based from information contained in *Pennsylvania's Traffic Calming Handbook* and a traffic study conducted by the police department.

Mr. Golden summarized six suggestions to improve public safety:

1. Conduct an Education Program. Place signs on streets at the entrances to the neighborhood, such as "Slow Down" or "Children at Play" or similar signage.
2. Enforce the Speed Limit. Increase directed police patrol on a regular basis, particularly during rush hours. However, the traffic study concluded that speeding is not an issue at this location.
3. Install speed humps every 250 to 600 feet apart. Studies show that speed humps slow traffic. However, the police chief and other emergency services do not recommend speed humps as response time for emergency vehicles will be slowed down, transporting patients could be difficult, and also laying fire hose could be an issue if there are speed humps in the way. He stated that it may also impact snow plowing. Another consequence is that it may increase traffic on other streets which would result in additional speed humps. The *Pennsylvania's Traffic Calming Handbook* recommends conducting a neighborhood traffic calming survey and receiving a 50-70% approval prior to installation.
4. Install sidewalks on both sides of Cushmore Road. This will improve public safety as it has been observed that parents either drive their children to the school bus and tie up the intersection or

allow their children walk in the street to get to the school bus. Busy residential streets should have sidewalks. Property owners are normally responsible for the cost of construction and maintenance of sidewalks, although the Township may pay for the construction.

5. Allow parking on Rozel Avenue and remove the "No parking" signs. Prohibiting parking on Rozel Avenue makes it easier for cut-through traffic.
6. Install some type of street restrictions on Cushmore Road and other streets in the neighborhood, such as "Do not Enter during morning or afternoon rush hours" or "No Left Turn" or "No Right Turns" at selected intersections.

Chief MacPherson conducted a traffic study on the 500-600 block of Cushmore Road and presented a report to the Board with his findings. His report is dated November 29, 2017. The study was done with a traffic box that uses radar and monitors traffic and speed without an officer being present. He also stationed a police officer and vehicle at the school bus stop intersection. Even with police presence, the behaviors of parking illegally within the bus stop intersection continued. He stated the police department met with and educated the residents of this problem and he has since noticed compliance.

Chief MacPherson did not feel there was an issue with the bus drivers as they allow the intersection to clear before putting their lights on.

Chief MacPherson stated additional speed limit signs and Children at Play signs have been installed. He is not in favor of speed humps because response time is reduced.

Todd Hanefeld, 580 Cushmore Road, stated that he and his neighbors are not in favor of sidewalks.

Erica Bradley, 517 Cushmore Road, said there is a lot of traffic. She requested more street lights. She also suggested limiting access to Cushmore Road during school bus hours to permit holders only and posting signs showing times for school buses, etc. Mr. Grossmuller asked if she felt it was a volume or speed issue and she said a volume issue.

Ms. Biuckians asked about more street lights. Mr. Golden stated that normally property owners are responsible for the cost of adding street lights, although the Township may pay for this. The Township is then responsible for maintenance once installed. Normally, the developer installs the streets lights at the time of development.

Jen Suchan, 905 Jeffrey Drive, said that she does not want sidewalks although she does not like it when children have to walk in the street; that children must be kept educated about the safety of walking in the street.

Ms. Genesio suggested a town meeting to get reactions from residents and for the Police Department to educate the people on the rules and to ask for suggestions and to present Mr. Golden's and the Chief's Memorandums to the residents for their reactions.

Mr. Wallin stated that installing signs per Mr. Golden's Memorandum item #6 and putting them on all the streets involved makes the most sense to him.

Julius Maurer, 247 Williams Drive, suggested the Township contact Lower Southampton Township which uses signage to curtail cut through traffic and ask them how that works for them.

Mr. Grossmuller stated that outside his house on New Road, volume and speed are a problem and the street is used as a cut through, and that most of the people cutting through are residents of that neighborhood so giving them a permit will not help with that.

Ch. Froggatt stated that he does not believe any action should be taken until the whole area is studied, not just Cushmore Road. He would like the Board to forward Mr. Golden's Memorandum of November 30, 2017 to the Traffic Engineer, Pennoni, and get their recommendations.

A MOTION WAS MADE BY MS. GENESIO TO HAVE PENNONI ASSOCIATES, THE TOWNSHIP TRAFFIC ENGINEER, REVIEW THE MEMORANDUM OF JOSEPH W. GOLDEN DATED NOVEMBER 30, 2017 AND RECEIVE THEIR RECOMMENDATIONS; SECONDED BY MR. WALLIN; CARRIED WITH A VOTE OF 5-0-0.

CONSIDERATION OF ADOPTING RESOLUTION #2017-21, APPROVING THE 2018 BUDGET OF ALL FUNDS:

A MOTION WAS MADE BY MR. GROSSMULLER TO ADOPT RESOLUTION #2017-21, APPROVING THE 2018 BUDGET OF ALL FUNDS; SECONDED BY MS. BIUCKIANS; CARRIED WITH A VOTE OF 5-0-0.

CONSIDERATION OF ADOPTING RESOLUTION #2017-22, FIXING THE TAX RATES FOR THE YEAR 2018:

A MOTION WAS MADE BY MS. BIUCKIANS TO ADOPT RESOLUTION #2017-22, FIXING THE TAX RATES FOR THE YEAR 2018; SECONDED BY MS. GENESIO; CARRIED WITH A VOTE OF 5-0-0.

CONSIDERATION OF ADOPTING RESOLUTION #2017-23, ESTABLISHING THE 2018 ASSESSMENT FOR THE COLLECTION, REMOVAL AND DISPOSAL OF RESIDENTIAL SOLID WASTE, YARD WASTE AND RECYCLABLES:

A MOTION WAS MADE BY MR. GROSSMULLER TO ADOPT RESOLUTION #2017-23, ESTABLISHING THE 2018 ASSESSMENT FOR THE COLLECTION, REMOVAL AND DISPOSAL OF RESIDENTIAL SOLID WASTE, YARD WASTE AND RECYCLABLES; SECONDED BY MS. BIUCKIANS, CARRIED WITH A VOTE OF 5-0-0.

PRESENTATION OF THE TAMANEND PARK MASTER SITE PLAN:

Ms. Gilbert gave a brief summary of the progress of the public participation of the Tamanend Park Master Site Plan to date. She said the Master Site Plan Study Committee met several times and have been very active in the development of the plan. She explained that they looked at the existing conditions, accessibility, parking, signage and lighting at Tamanend Park. A resident survey was prepared and mailed to over 7,000 households in the Township as part of the Park and Recreation Newsletter. The survey was also available online through "Survey Monkey". In all, 160 responses were received in favor of improving the trails, lighting, parking and signage. The Committee met with the Friends of Tamanend to review the proposed improvements. The Friends supported the plan and expressed a willingness to provide funds for an aerial survey and property boundary map of Tamanend Park to assist in the plan development. Ms. Gilbert also conducted key person interviews.

Mr. Bryson presented a Master Site Development Plan – Tamanend Park Concept Trail Plan and a Preliminary Opinion of Probable Costs in the amount \$3,968,250, both dated December 1, 2017. The probable costs include trail and parking lot improvements, storm water management, erosion and sedimentation control, handrails and fencing, retaining wall, parking lot lighting, and design and

engineering. He stated that the trail was designed to align to topography and connect to the parking lots and other facilities within the park.

Mr. Bryson identified some of key features on the plan. He showed the proposed looped trail system on the plan. It is a paved 10 feet wide trail, a little over a mile in length, to be shared by pedestrians and bicyclists. He also explained that the three existing parking lots will be expanded and improved: there will be a 100 space parking lot, an 88 space parking lot, and an 80 space parking lot with lights and storm water management. The trails will be connected to the parking lots and to the proposed rails to trail project. Also included on the plan is a picnic area on the northern side of parking lot F (the 100 space parking lot). He said this could be the site for an amphitheater. He also identified area L as a concert/bandstand area.

Mr. Bryson emphasized that the trails in Tamanend Park will be connected to the proposed rails to trails project that the Bucks County Planning Commission is working on in cooperation with the Township. The rails to trails project will connect to the Pennypack Trail in Montgomery County.

Lou Sherman, 875 Sycamore Drive, questioned how the project will be funded. Mr. Golden said this project will likely be constructed in phases and is dependent upon receiving grant funds. Mr. Bryson stated that the Township will submit a grant application to the PA Department of Conservation and Natural Resources next spring and explained there are other grant programs available as well. Mr. Sherman thinks the plan sounds good.

Glenn McKenney, Southampton Fire Chief, asked if there were plans for another access road into the Park. He noted there is an emergency access to the Park via a church parking lot. Mr. Bryson stated this could be included in the plan. Ms. Genesio stated that the second access road is important.

Mr. Froggatt questioned why the rails to trails project will have gravel trails and the Tamanend Park trails will be asphalt. Mr. Bryson explained that Tamanend Park trails have steeper slopes than the rails to trails and that asphalt will hold up better and require less annual maintenance.

Mr. Grossmuller asked about parking for Southampton Days. Mr. Bryson stated there are no plans to pave the overflow parking area that Southampton Days uses due to its propensity for flooding.

Ms. Genesio questioned whether the trails will be lighted. Mr. Froggatt stated that the park closes at night.

The Board thanked Mr. Bryson and Ms. Gilbert for their presentations.

CONSIDERATION OF ADOPTING RESOLUTION #2017-24 OPPOSING HOUSE BILL 1620, ENTITLED THE "WIRELESS INFRASTRUCTURE DEPLOYMENT BILL":

A MOTION WAS MADE BY MS. BIUCKIANS TO ADOPT RESOLUTION #2017-24, OPPOSING HOUSE BILL 1620, ENTITLED THE "WIRELESS INFRASTRUCTURE DEPLOYMENT BILL"; SECONDED BY MR. GROSSMULLER; CARRIED WITH A VOTE OF 5-0-0.

CONSIDERATION OF ADOPTING A RESOLUTION ACCEPTING A ROAD KNOWN AS SCHOOL LANE AS SHOWN ON THE FINAL PLAN TITLED "MILL CREEK ESTATES" AS A PUBLIC ROAD OF THE TOWNSHIP OF UPPER SOUTHAMPTON AND TO ACCEPT A DEED OF DEDICATION OF SCHOOL LANE:

Mr. Williams stated that the Township Engineer certified that the road is completed; the Water and Sewer Authority improvements are finished; and the developer provided a Deed of Dedication, title report, and maintenance bond to the Township.

A MOTION WAS MADE BY MR. GROSSMULLER TO ADOPT RESOLUTION #2017-25, ACCEPTING A ROAD KNOWN AS SCHOOL LANE AS SHOWN ON THE FINAL PLAN TITLED "MILL CREEK ESTATES" AS A PUBLIC ROAD OF THE TOWNSHIP OF UPPER SOUTHAMPTON AND TO ACCEPT A DEED OF DEDICATION OF SCHOOL LANE; SECONDED BY MS. BIUCKIANS; CARRIED WITH A VOTE OF 3-0-2; MR. FROGGATT AND MR. WALLIN ABSTAINED.

CONSIDERATION OF MAKING AN APPOINTMENT TO THE ZONING HEARING BOARD:

A MOTION WAS MADE BY MR. GROSSMULLER TO APPOINT WILLIAM McGOWAN TO THE ZONING HEARING BOARD FOR THE UNEXPIRED TERM OF FLEMMING GODIKSEN TO EXPIRE 2021; SECONDED BY MS. BIUCKIANS; CARRIED WITH A VOTE OF 5-0-0.

CONSIDERATION OF ENTERING INTO A COMMERCIAL LEASE OF THE UPPER SOUTHAMPTON TAX COLLECTOR'S OFFICE WITH JAMES M. FLUEHR, SR.:

A MOTION WAS MADE BY MS. GENESIO TO ENTER INTO A COMMERCIAL LEASE OF THE UPPER SOUTHAMPTON TAX COLLECTOR'S OFFICE WITH JAMES M. FLUEHR, SR.; SECONDED BY MR. GROSSMULLER; CARRIED WITH A VOTE OF 5-0-0.

SOLICITOR'S REPORT:

Mr. Williams' report was submitted previously.

Mr. Grossmuller asked Mr. Williams if there has been an update on the Rails to Trails Program and Mr. Williams stated he has not seen anything recently but he knows the County is proceeding with it.

OTHER BUSINESS:

A MOTION WAS MADE BE MS. GENESIO TO ENTER INTO A LABOR AGREEMENT WITH THE INTERNATIONAL UNION OF OPERATING ENGINEERS LOCAL 542-C FOR THE PERIOD OF JANUARY 1, 2018 THROUGH DECEMBER 31, 2020; SECONDED BY MR. GROSSMULLER; CARRIED WITH A VOTE OF 5-0-0.

ADJOURNMENT:

Being no further business to come before the Board, A MOTION WAS MADE BY MR. WALLIN TO ADJOURN AT 8:15 PM; SECONDED BY MS. GENESIO; CARRIED WITH A VOTE OF 5-0-0.

Respectfully submitted,

Lola G. Biuckians, Secretary/Treasurer

AGENDA

UPPER SOUTHAMPTON TOWNSHIP - BOARD OF SUPERVISORS

Tuesday, April 3, 2018

7:00 PM

REGULAR MEETING

Call to Order, Pledge of Allegiance

Announcements, Awards, Correspondence and Reports

Community Concerns: Members of the community may comment on any non-agenda item at this time

AGENDA ITEMS:

- A. Consideration of approving the following minutes:
 1. March 6, 2018 – Regular Meeting
- B. Consideration of approving for payment, the following invoices:
 1. March 20, 2018
 2. April 3, 2018
- C. Discussion and consideration of adopting the #2018-9 adopting the 2018 Tamanend Park Master Site Plan Update.
- D. Consideration of adopting Resolution #2018-10, authorizing the submission of a grant application to the PA Department of Conservation and Natural Resources for the purpose of partially funding a project entitled “Tamanend Park – Initial Improvements”.
- E. Presentation by Mr. Phillips and consideration of approving a proposal from Phillips & Donovan Architects, LLC for professional services regarding a new heating system for the administration offices and public works garage.
- F. Consideration of purchasing two vehicles for the Police Department.
- G. Consideration of appointing a Sergeant in the Police Department.
- H. Consideration of adopting Resolution #2018-11 ratifying the declaration of snow and ice emergency by the Board of Supervisors pursuant to 35 P.A.C.S. Section 7501-7515.
- I. Consideration of adopting Resolution 2018-12, amending the Parks and Recreation Facilities Use Policy.
- J. Consideration of adopting Resolution 2018-13, amending the Park and Recreation Fee Schedule.
- K. Consideration of awarding a contract for road materials.
- L. Consideration of approving a proposal from Tri-State Engineers for aerial mapping, digital map compilation and boundary survey of Tamanend Park.

M. Consideration of approving a proposal from Pennoni Associates for engineering services for the Green Light Go Grant Project.

N. Solicitor's Report

O. Other Business

Adjournment

Resolution # 2018-9

**A RESOLUTION OF THE TOWNSHIP OF UPPER SOUTHAMPTON, COUNTY OF BUCKS,
COMMONWEALTH OF PENNSYLVANIA ADOPTING THE 2018 TAMANEND PARK
MASTER SITE PLAN UPDATE**

Whereas, the original Master Site Development Plan for Tamanend Park was adopted in 1977;

Whereas, the Board of Supervisors has determined it is in the best interest of the Township to update the 1977 Master Site Development Plan.

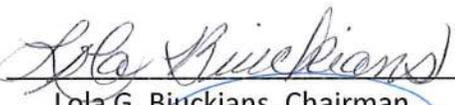
Now therefore, the Board of Supervisors of the Township of Upper Southampton, County of Bucks, Commonwealth of Pennsylvania does hereby resolve as follows:

The 1977 Tamanend Park Master Site Plan is hereby updated by the adoption of the 2018 Master Site Plan Update, as attached hereto and incorporated herein.

BE IT RESOLVED this 3rd day of April, 2018.

**UPPER SOUTHAMPTON TOWNSHIP
BOARD OF SUPERVISORS**

BY: _____


Lola G. Biuckians, Chairman

ATTEST: _____


Marguerite C. Genesio, Secretary/Treasurer

APPENDIX C

OPINION OF PROBABLE CONSTRUCTION COST

Tamanend Park Master Site Development Plan - Trails

Preliminary Opinion of Probable Costs - February 16, 2018

PLAN KEY	ITEM	QTY.	UNIT	UNIT COST	ESTIMATED COST	PRIORITY
Provide Multi-Use Trail Loop						
	TRAIL - 10' wide, bituminous pavement	7,755	LF			
A.	Outer Loop, southern trail	2,415	LF	\$90.00	\$217,400.00	A
E.	Outer Loop, northern trail	3,770	LF	\$90.00	\$339,300.00	B
D.	Parking lots to Park Office	900	LF	\$90.00	\$81,000.00	A
Provide Connection to Newtown Rail Trail						
B.	Outer Loop connection to Rail Trail	220	LF	\$90.00	\$19,800.00	A
C.	Park Office to Trail Loop	450	LF	\$90.00	\$40,500.00	A
Provide Wayfinding and Interpretive Signage						
A., E., D.	Educational Kiosk (Allowance)	3	EA	\$8,000.00	\$24,000.00	A/B/C
A., E., D.	Interpretive Signage (Allowance)	1	LS	\$15,000.00	\$15,000.00	A/B/C
Renovate Children's Play Area						
M.	Playground Equipment	1	LS	\$80,000.00	\$80,000.00	B
	Surfacing, play mulch	1	LS	\$20,000.00	\$20,000.00	B
	Underdrain system (allowance)	1	LS	\$15,000.00	\$15,000.00	B
Expand Existing Tennis Courts						
K.	Tennis Court, Fencing & Lighting	1	LS	\$150,000.00	\$150,000.00	C
L.	Concert Area	1	LS	\$65,000.00	\$65,000.00	C
Improve Park Access and Vehicular Circulation						
I.	Main Entrance Improvements (mill & overlay)	6,568	SY	\$50.00	\$328,400.00	C
J.	Access Drive Bridge Replacement				To be determined	C
Q.	Emergency Access Drive				To be determined	C
Increase Parking / Enlarge the existing Parking Areas and ADA Compliant Access						
	PARKING - bituminous pavement	7,916	SY			
F.	100+/- Space Parking Lot Paving - Full depth	3,832	SY	\$80.00	\$306,600.00	C
G.	85 +/- Space Parking Lot Paving - Full depth	4,528	SY	\$80.00	\$362,300.00	B
H.	80 +/- Space Parking Lot Paving - Full depth	3,388	SY	\$80.00	\$271,100.00	A
Provide Limited Lighting for Park Security						
F., G., H.	Light poles, foundations, conduit and wiring	30	EA	\$5,000.00	\$150,000.00	A/B/C
Renovate and Expand Restroom Existing Facilities						
N.	Expand Existing Restroom (Allowance)	1	LS	\$100,000.00	\$100,000.00	B
R.	New Restroom Facilities (Allowance)	1	LS	\$175,000.00	\$175,000.00	C
Preserve the Natural Area / Manage Plantings						
O.	Upland Reforestation (Allowance)	1	LS	\$80,000.00	\$80,000.00	A/B/C
O.	Meadow Restoration (Allowance)	1	LS	\$20,000.00	\$20,000.00	A/B/C
Provide Stormwater BMPs						
S.	Stormwater Management (Allowance)	1	LS	\$100,000.00	\$100,000.00	A/B/C
Stabilize the Stream Bank and Establish Riparian Forested Buffer						
P.	Riparian Buffer Restoration (Allowance)	1	LS	\$50,000.00	\$50,000.00	A/B/C

Sub Total (Construction)	\$3,010,400.00
Contingency (20%)	\$602,100.00
General conditions, Contractor Mobilization, Insurance, etc. (15%)	\$451,600.00
Soft Costs - Design and Engineering (8%)	\$240,900.00
ESTIMATED TOTAL	\$4,305,000.00

Notes:

- 1. This estimate is provided for planning purposes only and is based on prices current at the time this opinion of probable cost was prepared. Actual costs and quantities may vary due to a number of circumstances.*
- 2. No cost guarantee is expressed or implied.*
- 3. The total cost does not factor in union or prevailing wages for the improvements.*
- 4. Rock removal not included.*
- 5. Bridges or structural improvements not included.*
- 6. Parking lot curb not included.*

*DISCLAIMER: Pennoni Associates, Inc. prepared this cost estimate based planning level backgrounds and in no way should this estimate be considered a final cost estimate. The estimated costs are subject to change based on field conditions, local or regional differences, changes to the plans and/or changes to the unit costs. Final costs are dependent on actual bids from contractors.
Pennoni Associates, Inc. will not be held responsible for any discrepancies between this cost estimate and bid costs.*