

# Creating Sustainable Community Parks Conference

October 29, 2008

## Management Plan Development

Judith Stern Goldstein, ASLA, R.L.A.

Director of Landscape Architecture / Planning Services

**Boucher & James, Inc.**



# Design Process to Create A Sustainable Community Park

- Existing Features Mapping
- Site Analysis Plan
- Community Visioning
- Park Masterplan
- Soils Testing
- Landscape Plan
- Natural Resource Management Plan
- Park Management Plan

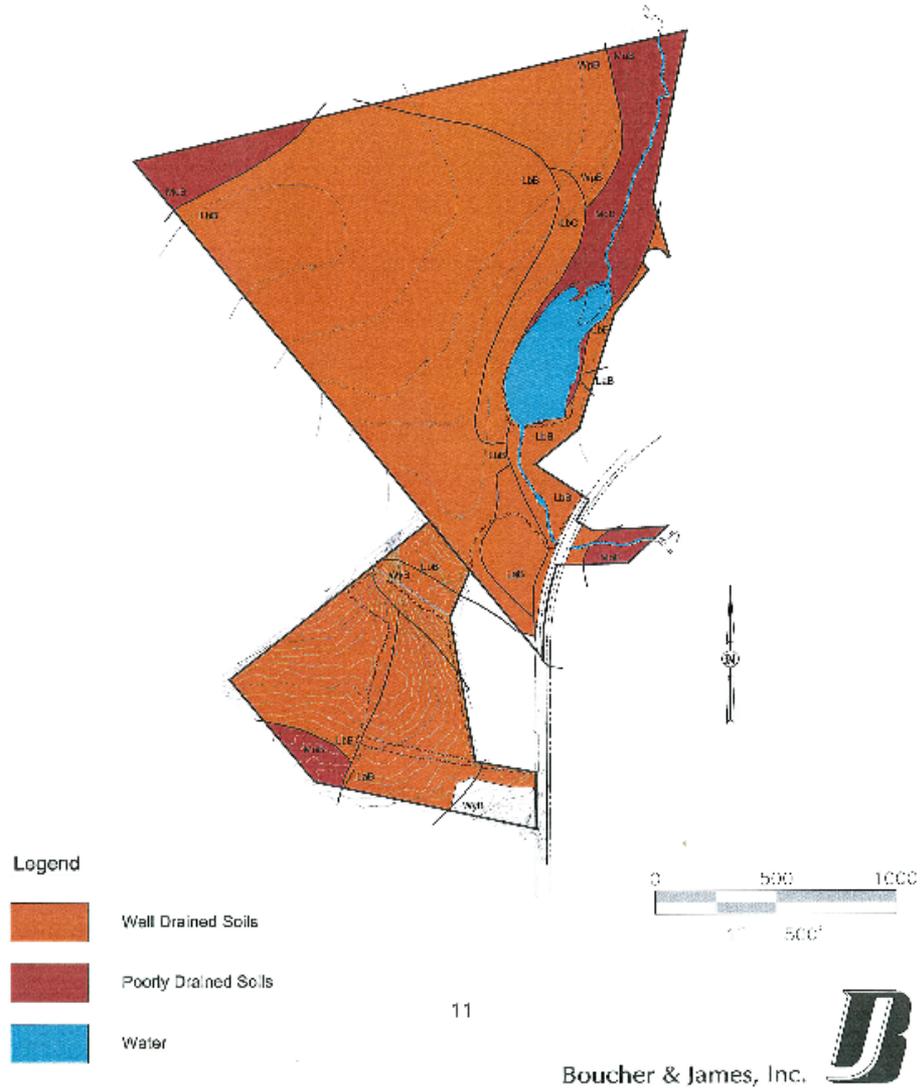
# Existing Features Mapping

- Survey Plan
- Natural Resources Inventory
- Scenic Areas and Viewsheds
- Historical and Cultural Resources
- Existing Circulation
- Adjacent Land Uses

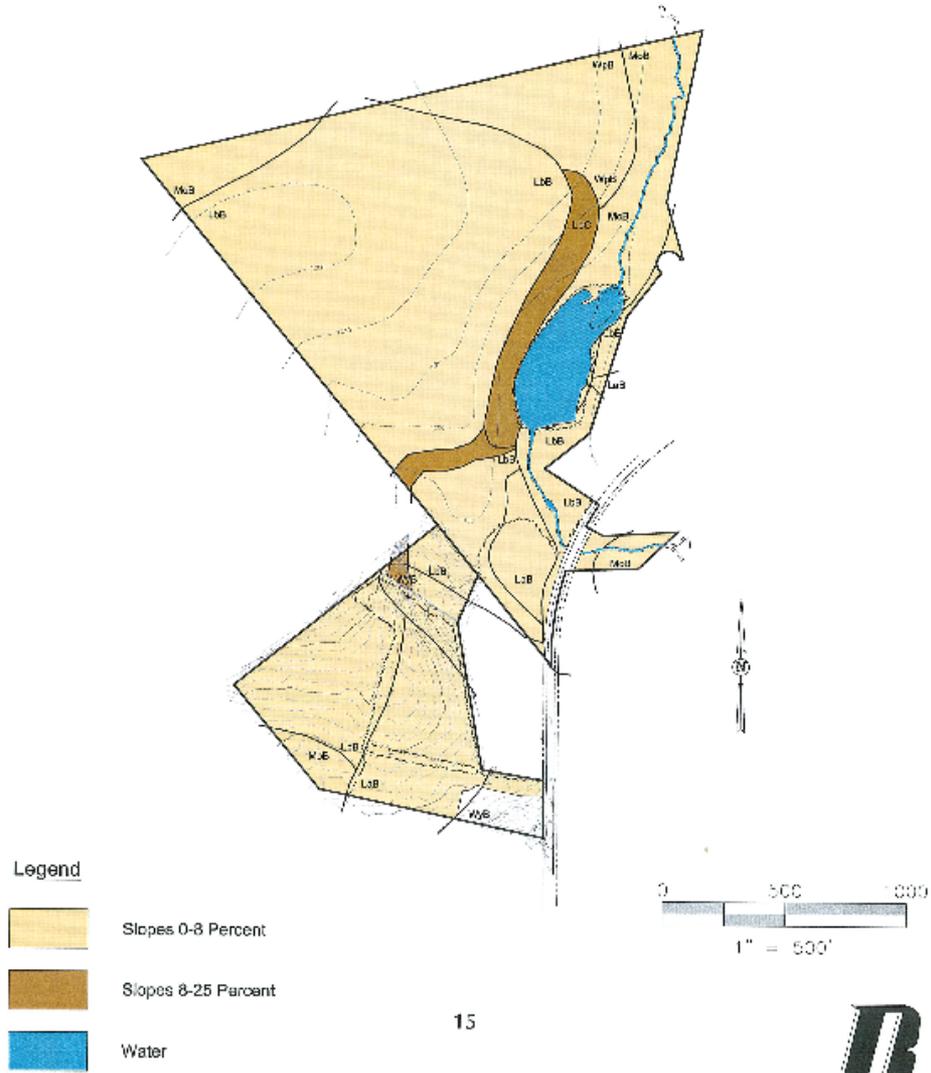
# Natural Resources Inventory

- Soils
- Slopes
- Ridge Lines / Watershed Boundaries
- Hydrology
- Wetlands
- Floodplains
- Riparian Corridors
- Geology
- Wildlife Habitat
- Vegetation
  - Types of forest or woodlands
  - Vulnerable landscapes
  - Invasive landscapes

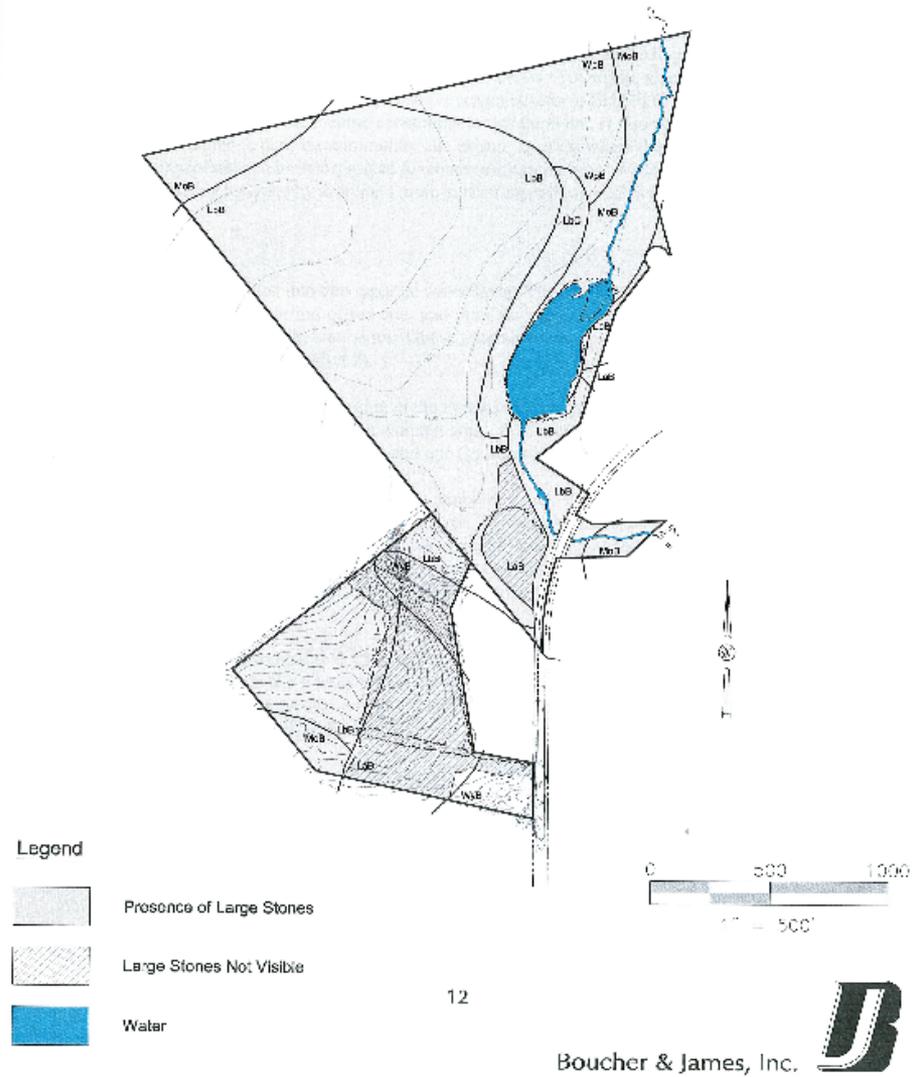
### Limitations on Use - Drainage



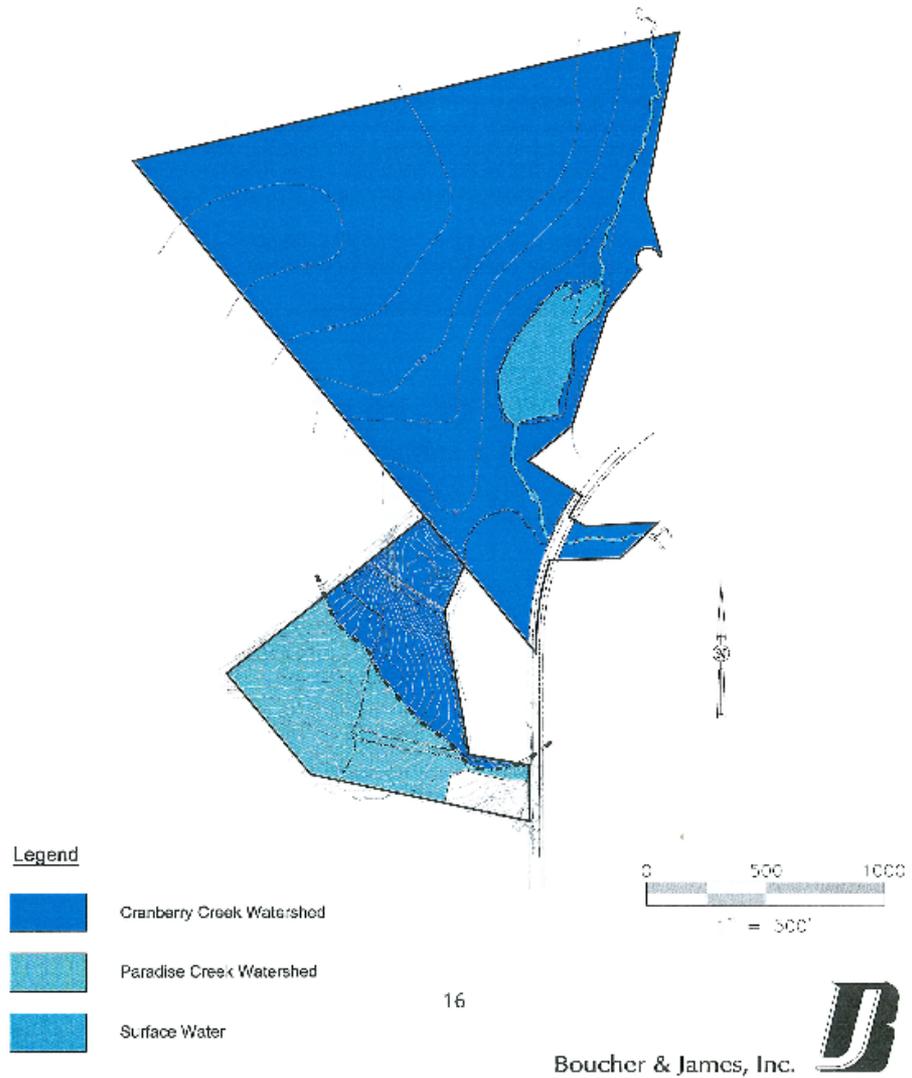
### Limitation on Use - Slope Analysis



### Limitations on Use - Presence of Large Stones



### Hydrology Map



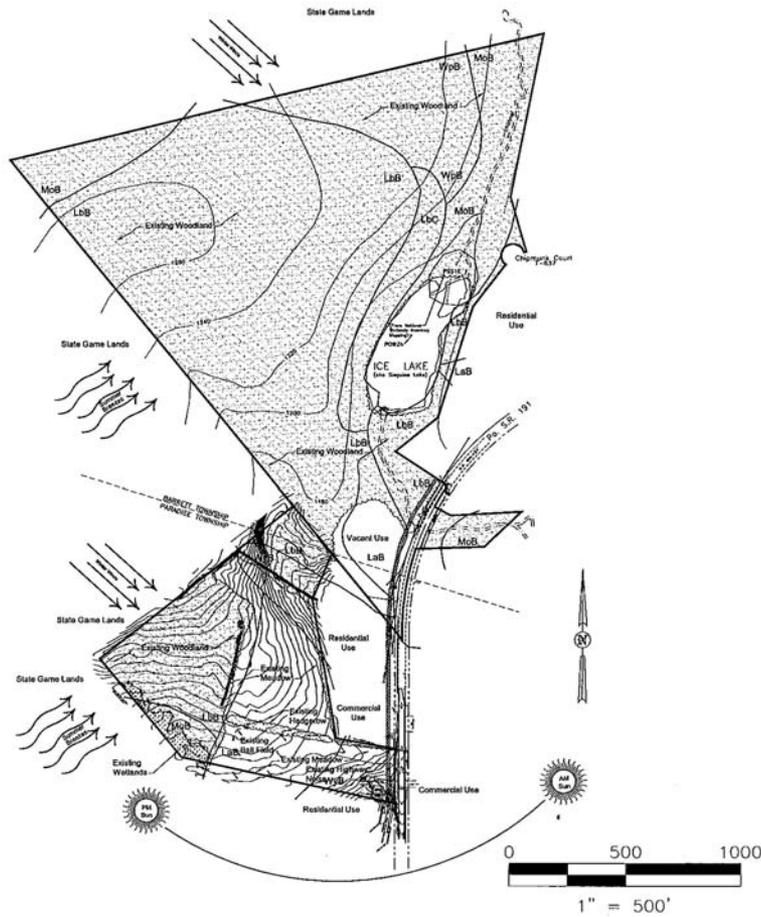
### Vegetation / Habitat Map

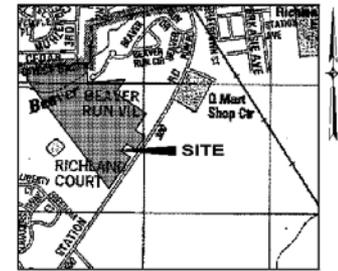
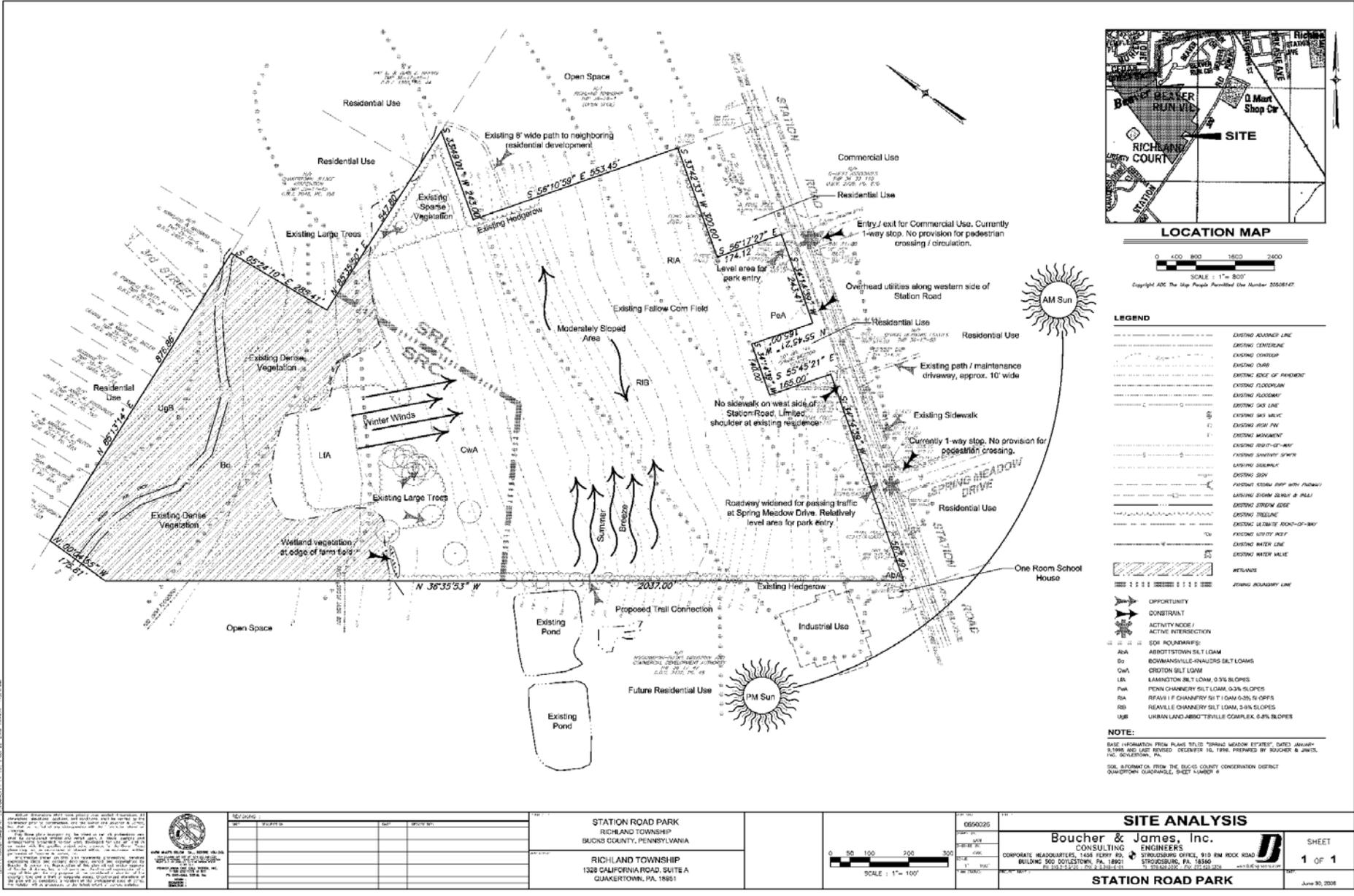


# Site Analysis Plan

- Use Existing Features Mapping
- Identify Opportunities
- Identify Constraints
- Establish the “Ground Rules” for the rest of the project

# Site Analysis





**LEGEND**

|          |   |
|----------|---|
| [Symbol] | EXISTING ADJACENT LINE                          |
| [Symbol] | EXISTING CONTOUR                                |
| [Symbol] | EXISTING CURB                                   |
| [Symbol] | EXISTING EDGE OF PAVEMENT                       |
| [Symbol] | EXISTING FLOODPLAIN                             |
| [Symbol] | EXISTING FLOODWAY                               |
| [Symbol] | EXISTING GAS LINE                               |
| [Symbol] | EXISTING GAS METER                              |
| [Symbol] | EXISTING HIGH PAV                               |
| [Symbol] | EXISTING MANAGEMENT                             |
| [Symbol] | EXISTING RIGHT-OF-WAY                           |
| [Symbol] | EXISTING SANITARY SEWER                         |
| [Symbol] | EXISTING SIDEWALK                               |
| [Symbol] | EXISTING SIGN                                   |
| [Symbol] | EXISTING SIGNAGE WITH PAVEMENT                  |
| [Symbol] | EXISTING SIGN (WALL & PILL)                     |
| [Symbol] | EXISTING STREAM EDGE                            |
| [Symbol] | EXISTING TREELINE                               |
| [Symbol] | EXISTING ULTIMATE RIGHT-OF-WAY                  |
| [Symbol] | EXISTING UTILITY POLE                           |
| [Symbol] | EXISTING WATER LINE                             |
| [Symbol] | EXISTING WATER MILE                             |
| [Symbol] | RETAINMENT                                      |
| [Symbol] | STATION BOUNDARY LINE                           |
| [Symbol] | OPPORTUNITY                                     |
| [Symbol] | CONSTRAINT                                      |
| [Symbol] | ACTIVITY NODE / ACTIVE INTERSECTION             |
| [Symbol] | SOI BOUNDARIES:                                 |
| ADA      | ABBOTTSTOWN SILT LOAM                           |
| Bo       | BOWMANVILLE-PAULERS SILT LOAMS                  |
| CWA      | CRIFTON SILT LOAM                               |
| LIA      | LEAMINGTON SILT LOAM, 0.3% SLOPES               |
| PaA      | PENN CHANNERY SILT LOAM, 0.3% SLOPES            |
| RA       | REAVIS / CHANNERY SILT LOAM, 0.3% SLOPES        |
| RB       | REAVIS / CHANNERY SILT LOAM, 0.4% SLOPES        |
| URB      | URBAN LAND AROUND 'STVILLE COMPLEX, 0.4% SLOPES |

**NOTE:**  
 BASE INFORMATION FROM PLANS TITLED "SPRING MEADOW ESTATES", DATED JANUARY 8, 1998 AND LATEST REVISION, DECEMBER 10, 1998, PREPARED BY BOUCHER & JAMES, INC., SCHLESBURG, PA.  
 SOI INFORMATION FROM THE BEACON COUNTY CONSERVATION DISTRICT QUAKERTOWN QUADRANGLE, SHEET #44007 #

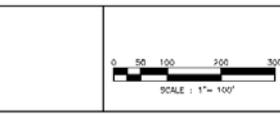
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**STATION ROAD PARK**  
 RICHLAND TOWNSHIP  
 BRUNSWICK COUNTY, PENNSYLVANIA

**RICHLAND TOWNSHIP**  
 1328 CALIFORNIA ROAD, SUITE A  
 QUAKERTOWN, PA, 18951



**0850025**

**Boucher & James, Inc.**  
 CONSULTING ENGINEERS  
 CORPORATE HEADQUARTERS, 1408 FERRY RD.,  
 BUILDING 500 DOWNTOWN, PA, 18901  
 STRUBENBURG OFFICE, 913 FM ROCK ROAD,  
 STRUBENBURG, PA, 18360  
 TEL: 717-233-1234 FAX: 717-233-1234

**SITE ANALYSIS**

**STATION ROAD PARK**

SHEET  
 1 OF 1

June 30, 2008

**Site Analysis Report  
New Galena and Walters Roads Park**

Prepared for  
**New Britain Township**

April 1, 2002

This Site Analysis Report has been prepared to accompany the Site Analysis Plan and Conceptual Sketch Plan, both of which are dated April 1, 2002. The documents have been prepared for New Britain Township to assist in their evaluation of the subject site and to determine the feasibility of providing active recreational uses at the site.

**Site Analysis Plan Narrative**

**1. Site Location**

The subject site consists of approximately 60.631 acres, with frontage on both New Galena Road and Walters Road, and is irregular in shape. The site includes Tax Map Parcel 26-1-51-1 and 26-1-49 and is located within the CR (Conservation and Recreation) Zoning District.

**2. Existing Resource Inventory**

**A. Topography**

The site is located within the Piedmont region of southeastern Pennsylvania and contains the gently rolling hills for which this region is known. Slopes on the site are generally moderate and range from nearly flat to greater than 25%, with the more steeply sloped areas found along New Galena Road and along the stream corridors. The majority of the site falls within the 0-8% and 8-15% slope categories.

**B. Floodplains**

The site contains approximately 15.66 acres of land within the 100 year floodplain. The floodplain was delineated from FEMA's Flood Insurance Rate Map Panel # 280. The 100 year floodplain extends along the Reading Creek, the Railroad Creek, and along a tributary that flows from the north side of Walters Road into Railroad Creek at the southern portion of the site. In addition, areas of Bowersville silt loam, which are alluvial soils and identified as floodplain soils in the New Britain Township Zoning Ordinance, are located on the subject site and extend beyond the delineated 100 year floodplain.

- 1 -

ity large, somewhat open, parcel is may indicate that the site would and analysis indicates that the site ext velopment of this site for active re

litt include the presence of a base neas of rocky soil. Poor drainage i rad of settling it percolate into the gr out with the lower portions of the s by sensitive areas. These low-lying, for wetlands to exist. Wetlands are create a "soggy field" in the spring presents a hazard to people using site does not appear to be suitable f

constraint, there is also a site oppo for preservation and recreational u nation. Some of the opportunities ways and trails, a nature trail, and

occur on portions of the site, creating the opportunity to leave portions of the site in its current agricultural use and other portions of the site in a natural, preserved condition, providing much needed habitat areas for our native species.

In addition, as a passive, naturalized park, this site can be used as an educational tool for local school children and the community. A nature trail could provide the opportunity to teach the community more about the natural environment and the different successional stages of vegetation (agricultural field through to mature forest) that exist on the site. For example:

- Ecology classes could perform restoration projects by removing some of the invasive species and replacing them with desired native species.
- Visitors to the park can walk the perimeter of the agricultural fields, mature forested areas, woody old field meadows and stream corridors, to learn about the different types of habitats.
- The Township, a group within the Township, Boy Scouts / Girl Scouts or a service organization could "adopt" a trail and create an educational pamphlet identifying the various eco-systems, plant communities and habitats found along the trail.

The attached Conceptual Sketch Plan identifies a number of these opportunities and shows where the different passive elements could be located.

4

**C. Wetlands**

A detailed wetlands study has not been performed on the site. However, the soils map shows areas of floodplain, alluvial, and/or hydric soils which could potentially contain areas of wetlands. The site contains approximately 13.35 acres of hydric and/or alluvial soils which could potentially be wetlands.

**D. Ponds, Streams, and Natural Drainage Areas**

Three (3) perennial streams, one (1) intermittent stream, and two (2) ephemeral streams are located on the subject site. One of the perennial streams, the Reading Creek, is located along the southwestern boundary and flows into another perennial stream, the Railroad Creek. The Railroad Creek exits the site under New Galena Road at the southern end of the site. The third perennial stream is located along the southeastern boundary of the site. This perennial stream is a tributary to Railroad Creek, and flows from the north side of Walters Road into Railroad Creek. An intermittent stream is located along the southeastern boundary of the site, below the perennial tributary of the Railroad Creek, and flows from the north side of Walters Road into the perennial tributary of the Railroad Creek. One of the ephemeral streams is located in the forested areas at the southern portion of the site and flows into the Railroad Creek. The other ephemeral stream is located in the woody old field and flows into the Railroad Creek. In general, all of the stream corridors on the site provide excellent opportunities for diverse habitats and are worthy of preservation.

**E. Vegetative Cover**

Existing vegetation on the subject site consists mainly of lowland forest communities, tallow fields and agricultural fields.

The forest areas contain a mixture of mature Ash, Black Walnut, Cherry, Hicory, Maple, Oak and Willow, as well as several Spruce trees. The understorey contains a mixture of Cedar, Dogwood and several invasive species such as Honeylocust, Grape Vine, Multiflora Rose and Poison Ivy.

The health of the mature trees in the forested areas appears to be in fair condition. However, the establishment of exotic, invasive plant species within the understorey, and along the edges of the forest (such as honeysuckle and multiflora rose) may undermine the future health and integrity of these forested areas.

The woody old fields contain a mixture of cedar, catnip, dogwood, multiflora rose and meadow species consisting of Aster, Canada Thistle, Goldenrod, Jewelweed, Pokeweed, Queen Ann's Lace, and Teasel.

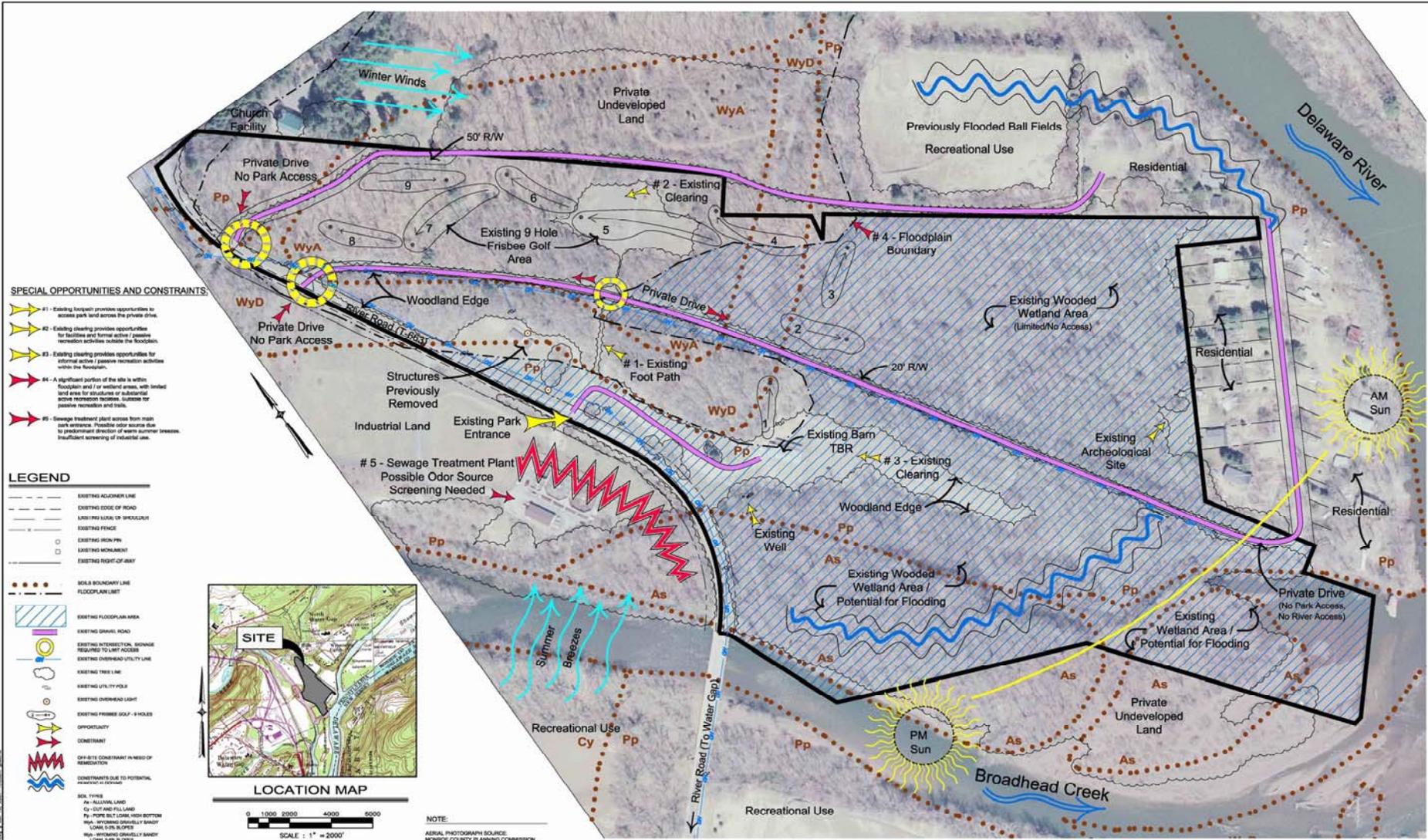
and that a property management procedure be established for this to indicate the soil symbols, names, depth to seasonal high water capability units (indicating Class I-IV agricultural soils), drainage one for recreational uses and suitability for natural uses.

n the subject site are mapped on the Site Analysis Plan. The indicating the soil symbols, names, depth to seasonal high water capability units (indicating Class I-IV agricultural soils), drainage one for recreational uses and suitability for natural uses.

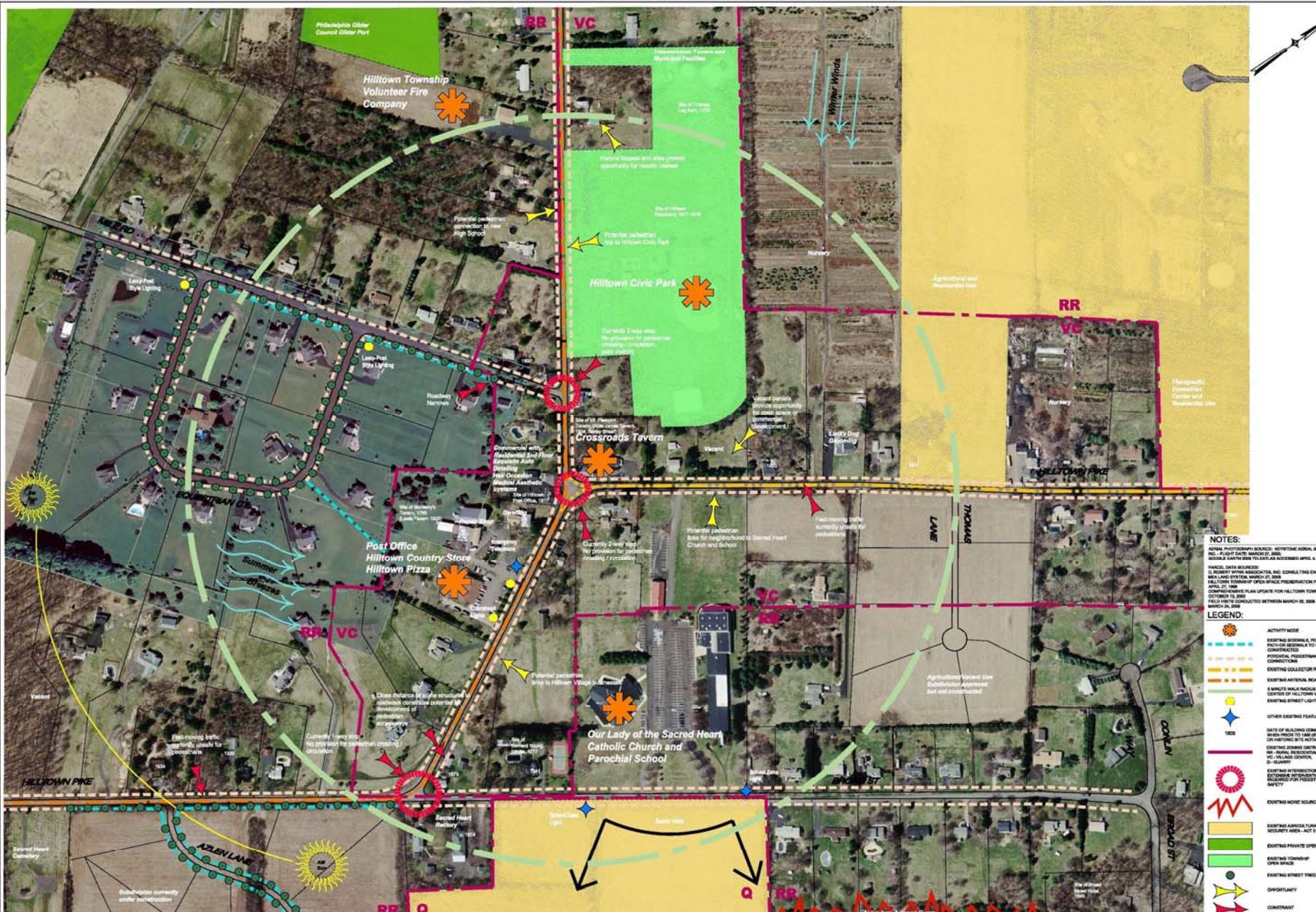
soils found within the study area are Do (Bowersville Silt Loam).

| Soil | Symbol                | Area (Acres) | Use | Soil Characteristics                | Drainage         | Water Table      | Soil Depth to High Water Table | Soil Capability  | Soil Use         | Soil Use         | Soil Use         |
|------|-----------------------|--------------|-----|-------------------------------------|------------------|------------------|--------------------------------|------------------|------------------|------------------|------------------|
| Do   | Bowersville Silt Loam | 0.15%        | W-1 | High water table, slow permeability | High water table | High water table | High water table               | High water table | High water table | High water table | High water table |
| Dak  | Dakota Silt Loam      | 0.1%         | W-2 | High water table, slow permeability | High water table | High water table | High water table               | High water table | High water table | High water table | High water table |
| Dca  | Dawson Silt Loam      | 1.2          | W-3 | High water table, slow permeability | High water table | High water table | High water table               | High water table | High water table | High water table | High water table |
| DcaB | Dawson Silt Loam      | 1.2          | W-3 | High water table, slow permeability | High water table | High water table | High water table               | High water table | High water table | High water table | High water table |
| DcaC | Dawson Silt Loam      | 1.4          | W-3 | High water table, slow permeability | High water table | High water table | High water table               | High water table | High water table | High water table | High water table |
| DcaD | Dawson Silt Loam      | 1.4          | W-3 | High water table, slow permeability | High water table | High water table | High water table               | High water table | High water table | High water table | High water table |

- 2 -



|  |  |  |  |   |  |
|--|--|--|--|---|--|
| REVISIONS<br>DATE DESCRIPTION DATE DESCRIPTION |  | PROJECT: RIVERS EDGE REGIONAL PARK MASTER PLAN<br>SMITHFIELD TOWNSHIP<br>MONROE COUNTY, PENNSYLVANIA |  | SHEET: 06/10/08<br>DRAWN BY: JMK<br>CHECKED BY: JMK<br>SCALE: 1" = 100'<br>DATE: 06/10/08   |  |
|  |  | PROJECT: SMITHFIELD TOWNSHIP<br>RD # 5, BOX 5229<br>EAST STROUDSBURG, PA 18301                       |  | <b>EXISTING FEATURES / SITE ANALYSIS PLAN</b><br><b>Boucher &amp; James, Inc.</b><br>CONSULTING ENGINEERS<br>CORPORATE HEADQUARTERS, 1456 FERRY RD., STROUDSBURG OFFICE, 910 BIRCH ROAD<br>BUILDING 500 DOWLESTOWN, PA 18507 STROUDSBURG, PA 18350<br>TEL: 717-526-8500 • FAX: 717-526-8501<br>WWW.B&JENGINEERS.COM |  |
| SHEET 1 OF 1                                   |  | SCALE: 1" = 100'   |  | RIVERS EDGE PARK  |  |

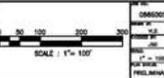


- NOTES:**
- AERIAL PHOTOGRAPHY SOURCE: KEYSTONE AERIAL SURVEYS, INC. - FLIGHT DATE: MARCH 2012; SOURCE: ESRI/ARC GIS TO GIS/ARC/INFO
  - FIELD DATA SOURCE: BUCKLE UP! ASSOCIATES, INC. CONSULTING ENGINEERS
  - FIELD DATA SOURCE: HILLTOWN TOWNSHIP OPEN SPACE PRESERVATION PLAN, APRIL 2010
  - COMPREHENSIVE PLAN UPDATE FOR HILLTOWN TOWNSHIP, OCTOBER 10, 2008
  - FIELD VISITS CONDUCTED BETWEEN MARCH 16, 2008 AND MARCH 18, 2008
- LEGEND:**
- ACTIVITY NODE
  - EXISTING BIOMASS, PEDESTRIAN PATH OR BIWAY TO BE CONTRACTED
  - POTENTIAL PEDESTRIAN CONNECTIONS
  - EXISTING COLLECTOR ROAD
  - EXISTING ARTERIAL ROAD
  - EXISTING PUBLIC NODES FROM CENTER OF HILLTOWN VILLAGE
  - EXISTING STREET LIGHTING
  - OTHER EXISTING FEATURES
  - DATE OF BUILDING CONSTRUCTION WITHIN 100' RADIUS OF NODES ON HISTORIC SITE NOTATION
  - EXISTING ZONING DISTRICT: RR - RURAL, RESIDENTIAL; VC - VILLAGE CENTER; Q - QUARTZ
  - EXISTING INTERSECTION, EIGHTH AND TENTH, SECURITY AREA - ACT #18
  - EXISTING WATER SOURCE
  - EXISTING AGRICULTURAL SECURITY AREA - ACT #18
  - EXISTING PRIVATE OPEN SPACE
  - EXISTING OPEN SPACE
  - EXISTING STREET LIGHTS
  - OPPORTUNITY
  - CONTINUED

**DRAFT**

| ENGINEER | DATE | REVISION | BY | REASON |
|----------|------|----------|----|--------|
|          |      |          |    |        |

HILLTOWN VILLAGE STUDY  
 HILLTOWN TOWNSHIP  
 BUCKS COUNTY, PENNSYLVANIA  
 HILLTOWN TOWNSHIP  
 13 W. CREMERY ROAD, PO BOX 260  
 HILLTOWN, PA 19027



086003  
 Boucher & James, Inc.  
 CONSULTING ENGINEERS  
 13 W. CREMERY ROAD, PO BOX 260  
 HILLTOWN, PA 19027

**EXISTING FEATURES AND SITE ANALYSIS**

SHEET 1 of 1  
 HILLTOWN VILLAGE STUDY  
 APRIL 4, 2008

# Community Visioning

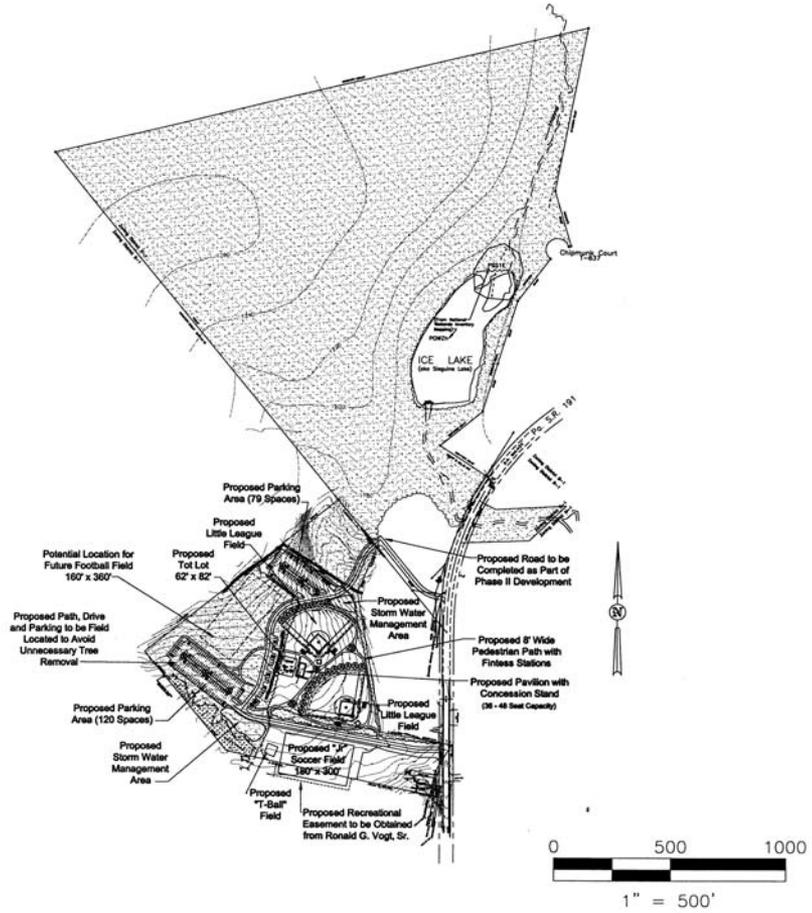
- Stakeholders
- Programming
- Function
- Investment



# Park Masterplan

- Protect / maintain natural systems
- Balance the “needs” and “wants” of the community / client with the opportunities and constraints of the site
- Create opportunities for “teaching moments”
- Minimize impervious surfaces and turf grasses
- Utilize Stormwater management BMP's
- Provide adequate facilities for intended users
  - Parking
  - Restrooms
  - Water
  - Shelter
  - Trails / Pathways
  - Signage

# Master Plan Phase I



# Master Plan



Refer to Exhibits 11 and 12 For  
More Detailed Information

25

Boucher & James, Inc.





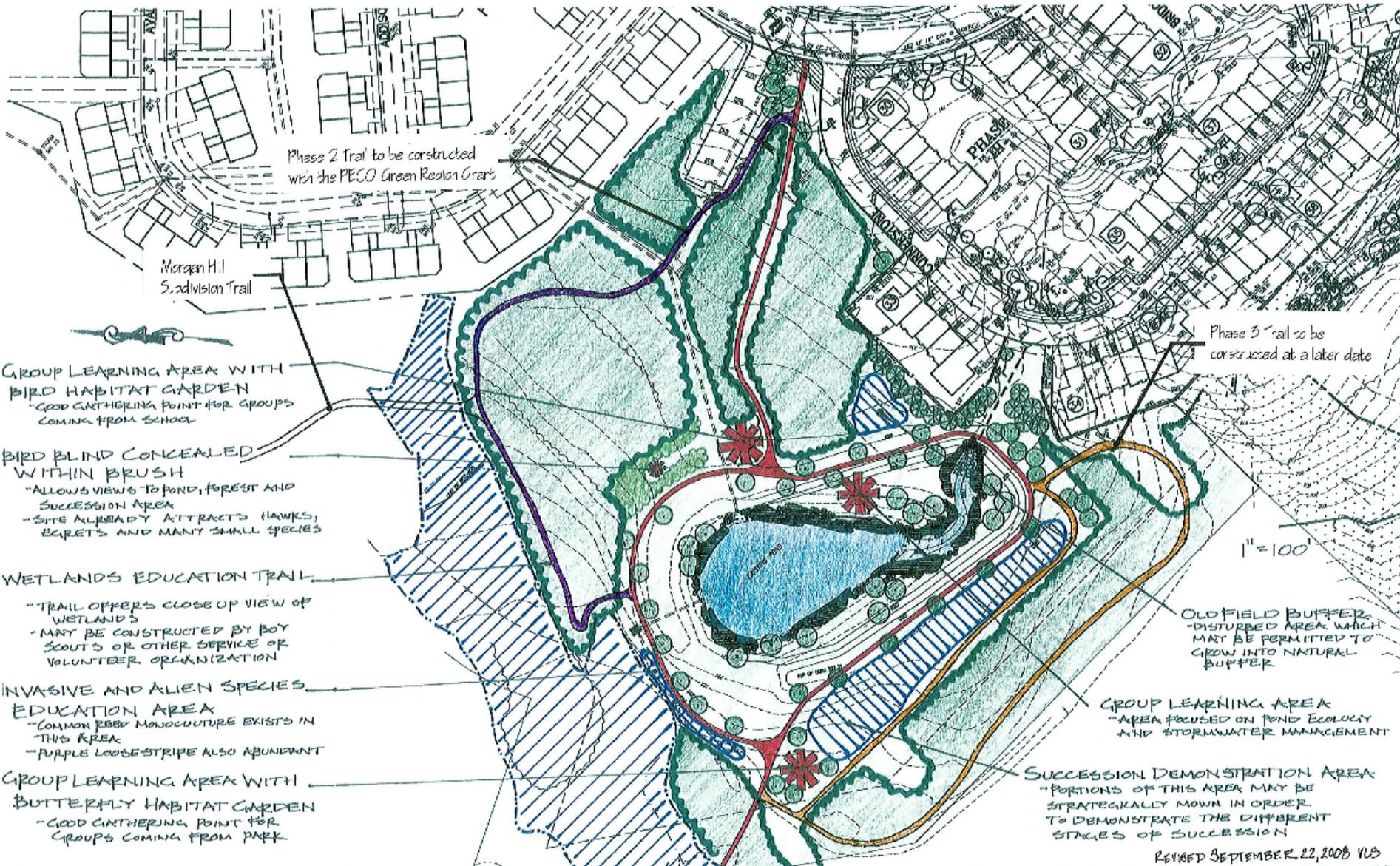




Environmental  
Education Area

Existing 108 Acre Park





Phase 2 Trail to be constructed with the PECO Green Region Grant

Morgan Hill Subdivision Trail

Phase 3 trail to be constructed at a later date

1"=100'

**BIRD LEARNING AREA WITH BIRD HABITAT GARDEN**  
 -GOOD GATHERING POINT FOR GROUPS COMING FROM SCHOOL

**BIRD BLIND CONCEALED WITHIN BRUSH**  
 -ALLOWS VIEWS TO POND, FOREST AND SUCCESSION AREA  
 -SITE ALREADY ATTRACTS HAWKS, EGRETS AND MANY SMALL SPECIES

**WETLANDS EDUCATION TRAIL**  
 -TRAIL OFFERS CLOSE UP VIEW OF WETLANDS  
 -MAY BE CONSTRUCTED BY BOY SCOUTS OR OTHER SERVICE OR VOLUNTEER ORGANIZATION

**INVASIVE AND ALIEN SPECIES EDUCATION AREA**  
 -COMMON REED MONOCULTURE EXISTS IN THIS AREA  
 -PURPLE LOOSESTRIFE ALSO ABUNDANT

**GROUP LEARNING AREA WITH BUTTERFLY HABITAT GARDEN**  
 -GOOD GATHERING POINT FOR GROUPS COMING FROM PARK

**OLD FIELD BUFFER**  
 -DISTURBED AREA WHICH MAY BE PERMITTED TO GROW INTO NATURAL BUFFER

**GROUP LEARNING AREA**  
 -AREA FOCUSED ON POND ECOLOGY AND STORMWATER MANAGEMENT

**SUCCESSION DEMONSTRATION AREA**  
 -PORTIONS OF THIS AREA MAY BE STRATEGICALLY MOWN IN ORDER TO DEMONSTRATE THE DIFFERENT STAGES OF SUCCESSION

**ENVIRONMENTAL EDUCATION GROVE • DOYLESTOWN TOWNSHIP**

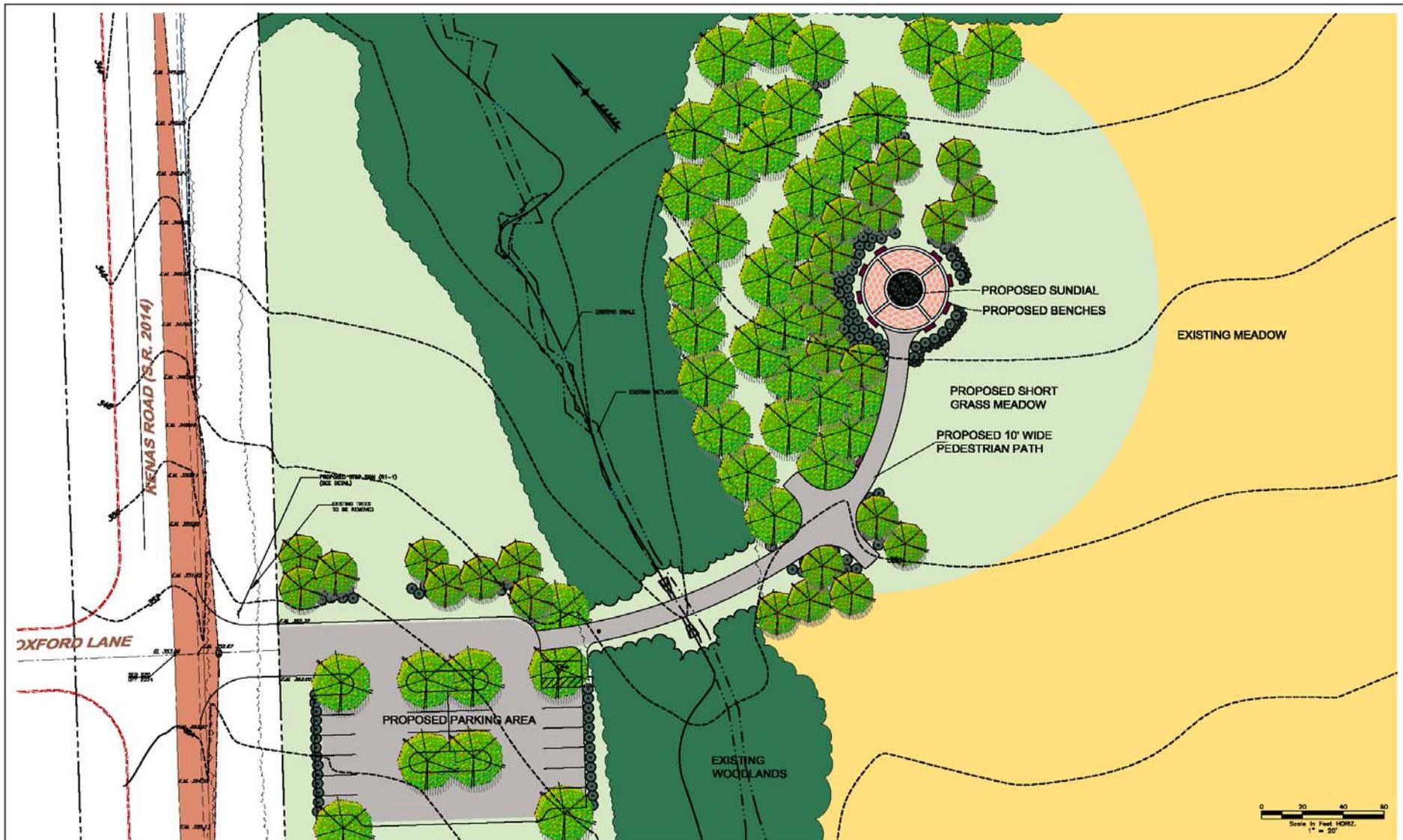
REVISED SEPTEMBER 22, 2008 VLS  
 PREPARED BY BOUCHER-JAMES, INC.  
 SEPTEMBER 9, 2004 DRAWN BY: RMT











Other features that may affect your work (direction of flow, depth, velocity, etc.) should be noted on drawings. If you are not a professional engineer, you should not be responsible for the design of any structure or work that may be affected by the work of a professional engineer. If you are a professional engineer, you should be responsible for the design of any structure or work that may be affected by the work of a professional engineer. If you are a professional engineer, you should be responsible for the design of any structure or work that may be affected by the work of a professional engineer.

CALL BEFORE YOU DIG  
 PENNSYLVANIA LAW REQUIRES  
 A MESSAGE ONE HOUR  
 BEFORE CONSTRUCTION BEGINS  
 AND TO RECORD ONE HOUR  
 BEFORE DIGGING BEGINS IN  
 ORDER TO CALL - 800-441-3937  
 Pennsylvania One Call  
 System, Inc.  
 1-800-242-1776

| Revision | Date | Description | Job | Description |
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Project : **MEMORIAL GROVE  
 HORVATH TRACT  
 MONTGOMERY TOWNSHIP**

Owner : **SHADE TREE COMMISSION  
 1001 STUMP ROAD  
 MONTGOMERYVILLE, PA, 18936**

Job No.: 0185003  
 Drawn by: JES  
 Checked by: JES  
 Scale: 1" = 20'  
 Plot/Make: Prolimbury

Title: **RENDERED SKETCH**

**Boucher & James, Inc.**  
 CONSULTING ENGINEERS  
 Doylestown, PA | Stroudsburg, PA  
 1400 Perry Road, Suite 200, Doylestown, PA 19340 | Tel: 215-335-4100 | Fax: 215-335-4101 | www.bjeng.com

Sheet **1 of 1**  
 Date: **March 13, 2008**

Project Name: **STC Memorial Grove**







**PLAN CONCEPT**

THIS PLAN PROPOSES TO USE THE RENOVATED SCHOOLHOUSE AS THE CENTERPIECE OF A PARK INTENDED FOR PASSIVE RECREATION AND EDUCATIONAL USE. PROPOSED AMENITIES INCLUDE A PAVILION WHICH MAY BE USED FOR RECREATIONAL ACTIVITIES OR AS AN OUTDOOR CLASSROOM, A WALKING TRAIL WITH POTENTIAL TO BE DEVELOPED INTO A NATURE OR EDUCATIONAL TRAIL, RESTROOM FACILITIES AND PARKING FACILITIES WHICH CAN ACCOMMODATE LARGE VEHICLES SUCH AS SCHOOL BUSES THROUGH THE PROPOSED RELOCATION OF THE HISTORIC WEIGH STATION TO THIS SITE. IT CAN BE RENOVATED TO ITS ORIGINAL CONDITION AND PROTECTED FROM FURTHER NEGLECT. IT ALSO PROVIDES AN ADDITIONAL HISTORIC RESOURCE FOR PARK VISITORS. ADDITIONAL LANDSCAPING THROUGHOUT THE PARK, INCLUDING THE CREATION OF ELLA'S GARDEN, WILL BEAUTIFY THE SITE AND PROVIDE OPPORTUNITIES FOR COMMUNITY INVOLVEMENT THROUGH GARDENING CLUBS OR THE HISTORICAL SOCIETY.

**EXISTING FEATURES**

THE APPROXIMATELY 2.5 ACRE SITE IS LOCATED NORTH OF THE INTERSECTION OF LIMPAR AND COUNTRY SIDE LANES. APPLEBUTTER ROAD BORDERS THE SITE TO THE NORTH. THE PROPERTY CONTAINS THE RECENTLY RENOVATED HISTORIC LUTZ-FRANKLIN SCHOOLHOUSE, WHICH HAS BEEN ESTIMATED TO HAVE BEEN CONSTRUCTED IN 1880. REMAINS OF THE OUTHOUSE EXIST BEHIND THE SCHOOLHOUSE. AN EXISTING HEDGEROW RUNS THROUGH THE MIDDLE OF THE SITE, AND CONTAINS THE REMAINS OF AN HISTORIC COOKING AREA AND STONE PILLAR. AN ADDITIONAL HEDGEROW PROVIDES SCREENING ALONG LIMPAR LANE. A ROW OF EVENLY SPACED STREET TREES LINE COUNTRY SIDE LANE. NO IMPROVEMENTS OR UTILITIES ARE PRESENT ON THE SITE.

**PARKING AREA**

THE SITE CURRENTLY HAS NO FORMAL PARKING AREA, WITH VISITORS PULLING ONTO THE FRONT LAWN OF THE SCHOOL HOUSE. THE PROPOSED PARKING AREA WOULD TAKE ACCESS FROM LIMPAR LANE AND COULD ACCOMMODATE TWO HANDICAPPED VISITORS VEHICLES AND EIGHT TYPICAL VEHICLES AT ONCE THROUGH THE USE OF A TWO-WAY DRIVEWAY, BUS LOADING AND UNLOADING AREAS, UTILITY TURNAROUNDS AND A SINGLE ROW OF PARKING SPACES. THE PARKING AREA MAY ACCOMMODATE UP TO AN ADDITIONAL SIX PARKING SPACES IF THEY ARE NEEDED IN THE FUTURE. THE PARKING AREA WOULD BE CONSTRUCTED WITH POROUS PAVING, IN ORDER TO KEEP IMPERVIOUS SURFACES AND STORMWATER RUNOFF TO A MINIMUM.



**LUTZ-FRANKLIN SCHOOLHOUSE**

THE SCHOOL HOUSE IS THE CENTER PIECE OF THE PARK. MANY OF THE DESIGN DETAILS ARE DIRECTLY RELATED TO THE CHARACTER AND LOCATION OF THE SCHOOL HOUSE. THE AREA IMMEDIATELY SURROUNDING THE SCHOOL HOUSE IS INTENDED TO REMAIN RELATIVELY UNDISTURBED. IN ORDER FOR THE SCHOOL HOUSE TO REMAIN AS THE FOCAL POINT OF THIS AREA, ONLY TRAILS AND LANDSCAPING ARE PROPOSED IN THIS AREA. THE PARKING AND PAVILION AREAS ARE PURPOSEFULLY DISTANCED FROM THE SCHOOL HOUSE SO AS NOT TO COMPETE WITH IT FOR ATTENTION OR MAKE THIS AREA FEEL TOO BUSY. THE GENERAL LAYOUT OF THE PARK AND ADDITIONAL LANDSCAPING PERMIT THE SCHOOL HOUSE TO BE SEPARATED FROM THE OTHER USES IN THE PARK IN ORDER TO PRESERVE SOME OF THE CHARACTER OF THIS HISTORIC SITE AND TO EMPHASIZE ITS IMPORTANCE.

**PAVILION AREA**

THE PROPOSED PAVILION MAY BE USED AS AN OUTDOOR CLASSROOM, A PLACE FOR RECREATIONAL ACTIVITIES OR A SIMPLE GATHERING SPACE. THE PAVILION STRUCTURE AND LOCATION ARE INTENDED TO MIMIC OR GESTURE TOWARDS MANY ASPECTS OF THE LUTZ-FRANKLIN SCHOOLHOUSE. THE PAVILION IS PROPOSED ON AXIS WITH THE SCHOOLHOUSE IN ORDER TO SYMBOLICALLY TIE THE NEW OUTDOOR CLASSROOM WITH THE HISTORIC CLASSROOM. THE ARCHITECTURE AND STRUCTURAL MATERIALS USED IN DETAILED DESIGN OF THE PAVILION SHOULD MIMIC ASPECTS OF THE SCHOOL HOUSE. STONE AND VICTORIAN STYLE WOODWORK COULD BE USED IN COMBINATION TO FORM THE PILLARS, THE ANGLE AND HEIGHT OF THE SCHOOL HOUSE'S GABLE COULD BE COPIED AND THE SIZE AND SHAPE OF THE PAVILION COULD BE PROPORTIONAL TO THAT OF THE EXISTING BUILDING.

**ELLA'S GARDEN AND ADDITIONAL LANDSCAPING**

WHILE A DETAILED LANDSCAPE PLAN HAS NOT BEEN PREPARED, IT IS CLEAR THAT THERE ARE GREAT OPPORTUNITIES FOR LANDSCAPING WITHIN THE SITE IN ORDER TO IMPROVE THE PARK AESTHETICALLY AND FUNCTIONALLY. A GARDEN HAS BEEN PROPOSED IN MEMORY OF ELLA MARY KINGSTON, A FORMER STUDENT AT THE LUTZ-FRANKLIN SCHOOLHOUSE. THE GARDEN IS PROPOSED TO BE AN INTIMATE AND SERENE SPACE WITHIN THE PARK. THE PAVILION MAY BE SURROUNDED BY PLANTINGS IN ORDER TO ADD INTEREST TO THE STRUCTURE. THE PARKING AREA ALSO MAY NEED LANDSCAPING IN ORDER TO SOFTEN THE LOOK OF THE PAVING. SHADE TREES COULD BORDER THE PARKING AREA TO REDUCE THE HEAT ISLAND EFFECT. THE WALKING TRAILS SHOULD BE LINED WITH TREES IN ORDER TO PROVIDE SHADE FOR PEDESTRIANS. OTHER AREAS SUCH AS THE PROPOSED RESTROOM AREA AND PROPERTY PERIMETERS ABUTTING ROADS MAY NEED ADDITIONAL LANDSCAPING TO PROVIDE SCREENING AND BUFFERING.



**RELOCATED WEIGH STATION**

THE WEIGH STATION IS PROPOSED TO BE RELOCATED AS A PART OF THE PROPOSED PATHWAY SYSTEM AND INTEGRATED INTO ELLA'S GARDEN. THIS IS A GESTURE TOWARDS THE STRUCTURE'S HISTORIC USE. NOW PARK VISITORS MAY STOP AT THE WEIGH STATION DURING THEIR JOURNEY THROUGH THE GARDEN AS VEHICLES ONCE DID. THIS LOCATION ALSO STRENGTHENS THE PARK'S ENTRY SEQUENCE. VEHICLES ENTERING THE PARK WILL DRIVE PAST THE BUILDING AND GARDEN. THE VISITORS CAN THEN VISIT THE WEIGH STATION AND GARDEN ON FOOT AFTER PARKING, BY SEPARATING THE WEIGH STATION FROM THE OTHER ELEMENTS OF THE PARK, THEY EACH WILL HAVE THEIR OWN SPACE, WHICH PERMITS VISITORS TO SLOWLY TAKE IN THE SIGHTS AND EXPERIENCE THE PARK AT THEIR OWN PACE. THE WEIGH STATION COULD ALSO POTENTIALLY BE DEVELOPED INTO A GIFT SHOP OR EDUCATIONAL EXHIBIT IN THE FUTURE.



**RESTROOMS**  
REMAINS OF THE HISTORIC OUTHOUSE EXIST TO THE REAR OF THE SCHOOL HOUSE. HOWEVER, THE PROPOSED RESTROOM FACILITIES ARE PROPOSED ADJACENT TO THE PARKING AREA, IN ORDER TO PROVIDE ACCESS WHEN ARRIVING AT THE SITE AND BEFORE LEAVING. THE RESTROOMS ARE PROPOSED AWAY FROM THE SCHOOL, BUS LOADING AND UNLOADING AREAS IN ORDER TO AVOID CONFLICTS BETWEEN STUDENTS AND BUSES. ADDITIONALLY, THEY ARE TUCKED UNDER THE EXISTING CANOPY TO KEEP THE STRUCTURE SHADDED AND SCREENED, ALTHOUGH ADDITIONAL LANDSCAPING MAY BE DESIRABLE. A SHELTER MAY ALSO BE PROPOSED OVER THE RESTROOM STRUCTURES WHICH MAY MIMIC THE CHARACTER OF THE SCHOOLHOUSE, SIMILAR TO THE PROPOSED PAVILION, IN ORDER TO BETTER INTEGRATE THEM INTO THE SURROUNDING LANDSCAPE. THIS LOCATION IS ALSO UTILITARIAN, AS A PUMPER TRUCK OR OTHER MAINTENANCE VEHICLE MAY GAIN ACCESS THROUGH THE ADJACENT PARKING AREA.

**WALKING TRAILS**  
THE PURPOSE OF THE PROPOSED TRAILS MAY BE MANY FOLD. AS THEY ARE PROPOSED, THEY WILL PROVIDE CIRCULATION THROUGHOUT THE PARK AND ACCESS TO THE FEATURES. THEY ALSO PROVIDE EMERGENCY AND UTILITY ACCESS TO THE SCHOOL HOUSE AND RESTROOMS. THE TRAILS ARE PROPOSED TO BE SIX FEET WIDE, FLANKED BY EIGHT FEET WIDE IN THE AREA ADJACENT TO THE PARKING AREA, WHERE THE FRONT OF A CAR MAY HANG OVER THE TRAIL. THE TRAILS ALSO HAVE GREATER POTENTIAL THAN SIMPLY SERVING AS CIRCULATION. THEY COULD BE FURTHER DEVELOPED TO BECOME EDUCATIONAL TRAILS, WITH EXHIBITS SUCH AS SIGNS OR STRUCTURES WHICH CONTAIN INFORMATION ABOUT HISTORY. THE ENVIRONMENT OR OTHER SUBJECTS PLACED ALONG THE TRAIL. THE OUTER LOOP IS APPROXIMATELY 200' LONG, AND CAN BE USED FOR CASUAL WALKING OR JOGGING WHEN THE SCHOOL HOUSE IS NOT IN USE.

**NOTE**  
IT SHOULD BE NOTED THAT NO ON-SITE SURVEY HAS BEEN CONDUCTED. LOCATIONS OF ALL EXISTING FEATURES ARE APPROXIMATE AND HAVE BEEN ASCERTAINED FROM PUBLISHED DATA INCLUDING, BUT NOT LIMITED TO, NORTHAMPTON COUNTY TAX MAPS, FEMA FLOODPLAIN MAPS AND AN UNDATED AERIAL PHOTOGRAPH.

| NO. | REVISIONS                                | DATE | REVISION |
|-----|--|------|----------|
| 1   | ISSUED FOR PERMIT                        |      |          |
| 2   | REVISED TO ADD AREA AS SHOWN GREEN LOCAL |      |          |
| 3   | REVISED TO ADD AREA AS SHOWN GREEN LOCAL |      |          |
| 4   | REVISED TO ADD AREA AS SHOWN GREEN LOCAL |      |          |
| 5   | REVISED TO ADD AREA AS SHOWN GREEN LOCAL |      |          |
| 6   | REVISED TO ADD AREA AS SHOWN GREEN LOCAL |      |          |



|          |   |
|----------|---|
| PROJECT: | Kingston Park<br>Lower Saucon Township<br>Northampton County                              |
| CLIENT:  | Lower Saucon Township & Historical Society<br>Lower Saucon Township<br>Northampton County |

|              |           |
|--------------|-----------|
| DATE:        | 06-25-007 |
| SCALE:       | 1" = 20'  |
| PROJECT NO.: | 06-25-007 |
| DRAWN BY:    | Blair     |

**CONCEPTUAL SKETCH PLAN**  
**Boucher & James, Inc.**  
 CONSULTING ENGINEER  
 2000 W. 10TH STREET, SUITE 100  
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 TEL: 215-381-1234 FAX: 215-381-1235  
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SHEET 1 OF 1  
 June 22, 2008

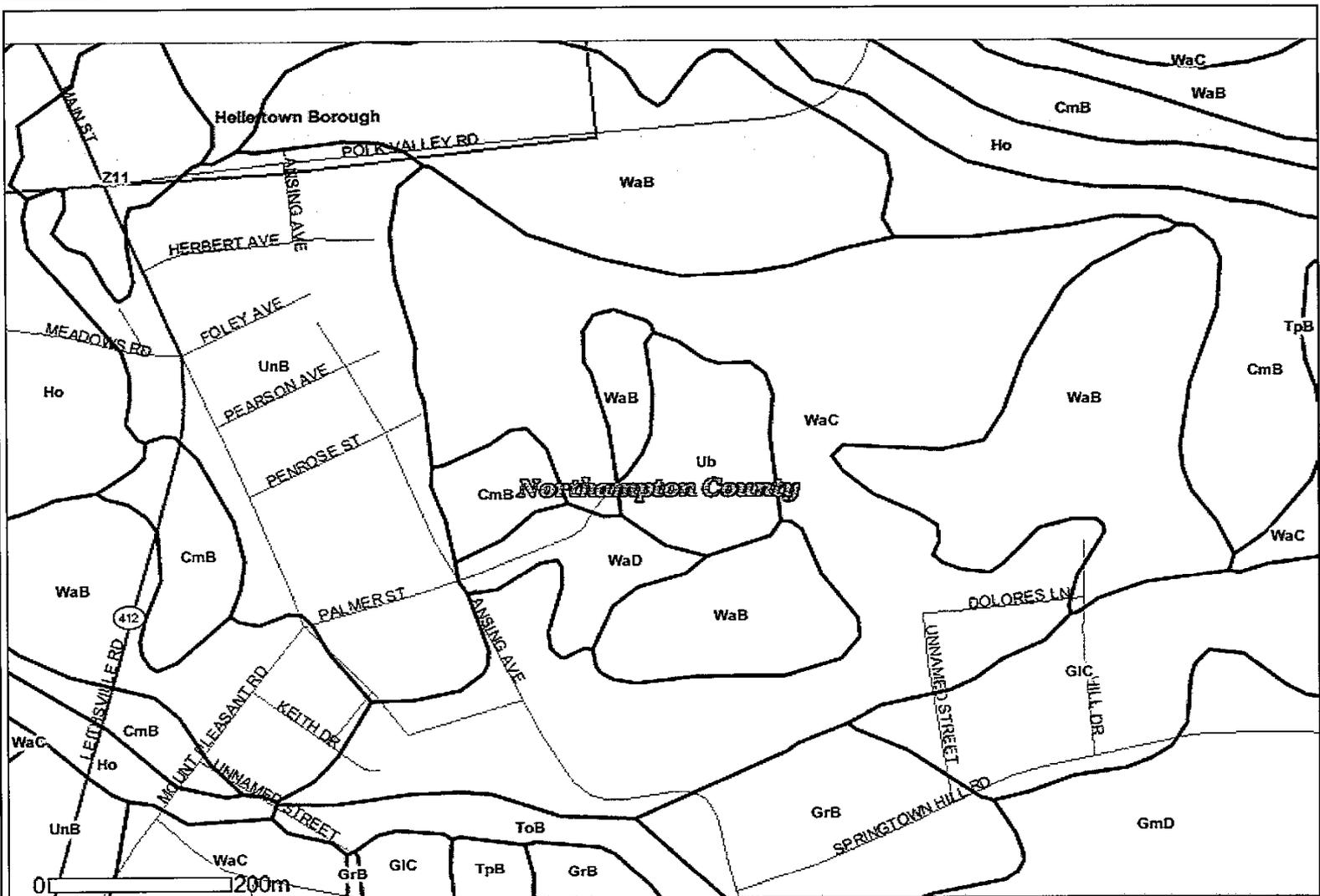
# Soils Testing

- Permeability
- Suitability for stormwater management BMP's
- Depth of topsoil
- Quality
- Content / Suitability to meet plan objectives



# SoilMap

-  Soils
-  Roads
-  Interstate
-  US Route
-  State Route
-  Local Roads
-  Access Ramps
-  Other
-  Water
-  Counties
-  Boroughs



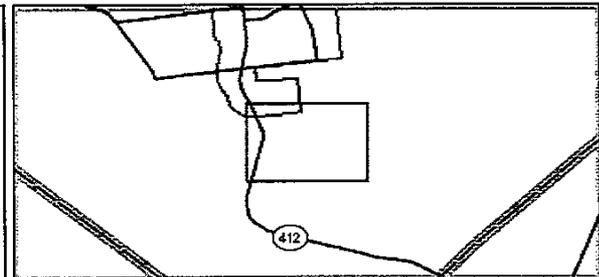
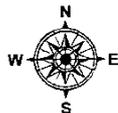
0 1200m

Map Scale 1:6041, 1 inch = 503 feet  
 Created by SoilMap, 4/5/2007 10:27:07 AM

The information on SoilMap is provided 'as is' and the User assumes the entire risk as to its quality and performance. Soil maps are subject to change and may be copied without permission. Enlarging the maps may cause misunderstanding of the detail of mapping. Help in using soil surveys is available from the local office of the NRCS.



Cooperative Extension  
 Geospatial Technology Program



# Landscape Plan

- Retain existing vegetation where possible
- Utilize native plant species
- Connect to and expand existing plant communities
- Create natural stormwater management systems / created wetlands
- Minimize use of turf grasses
- Identify and remove invasive plant species











150





















# Natural Resource Management Plan

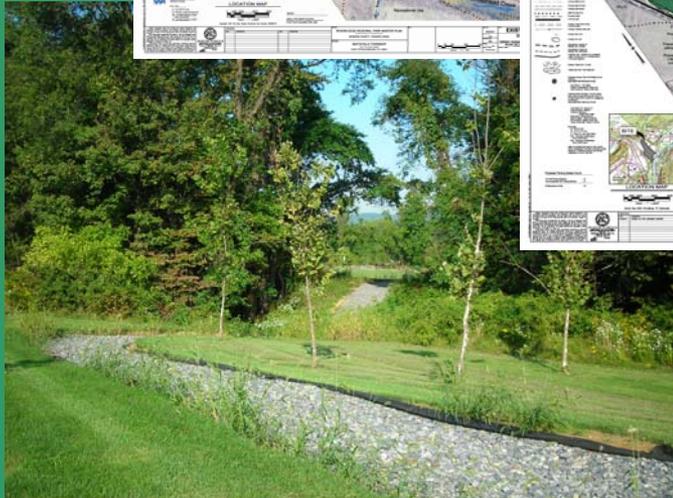
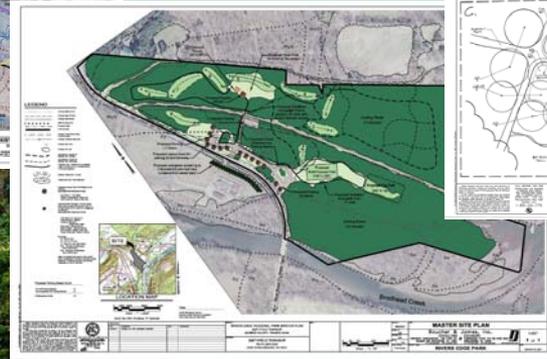
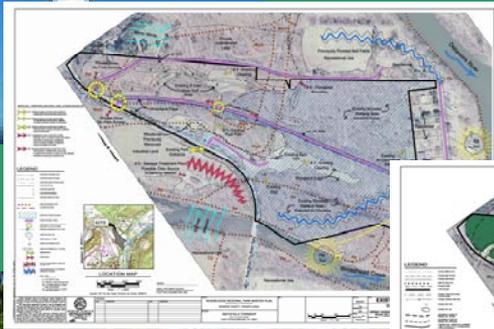
- A document that outlines objectives for park management
- Includes actions to meet those objectives
- Use the Natural Resources Inventory and Site Analysis to develop this plan in conjunction with the Masterplan and Landscape Plan
- Specific to each individual park – not a general to be used for all parks or open space areas

# Natural Resource Management Plan

- Sample Objectives:
  - Limit disturbance to natural areas
  - Maintain soils
  - Maintain woodlands and forests
  - Maintain agricultural soils / uses
  - Enhance wildlife habitat
  - Conserve and protect water resources
  - Promote native plant species
  - Promote conservation of energy and use of alternative energy sources

# Park Management Plan

- The final document prepared for your sustainable community park
- It will be an evolving document and will need to be updated as conditions and objectives evolve
  - Will the meadow stay in an arrested state of succession or will it evolve through the successional stages?
  - Will the large meadow be mowed?
  - An ornithologist joined your EAC – do you now add a bird blind?





# Creating Sustainable Community Parks Conference

October 29, 2008

## Management Plan Development

Judith Stern Goldstein, ASLA, R.L.A.

Director of Landscape Architecture / Planning Services

**Boucher & James, Inc.**

