WARREN COUNTY ⬤ MUNICIPAL CENTER

LAKE GEORGE, NEW YORK 12845

**PLANNING & COMMUNITY DEVELOPMENT
DEPARTMENT**
Telephone: (518) 761-6410

Planning and Community Development
Committee Meeting Agenda
May 2014

A. Pending Items:

- Resolution No. 84 of 2010 and 388 of 2012 both urged Senator Little to request Legislation be introduced in the State Legislature to include Schroon River as part of the Intercoastal Waterway System so that communities along the Schroon River would be eligible for funding under the Local Waterfront Revitalization Program.

B. Committee Actions Requested:

- Request for resolution establishing Capital Fund to administer grant award under the NYS Local Waterfront Revitalization Program

- Request to establish temporary employee position within the GIS budget

- Request to amend budget to fund GIS temporary position.

C. Program Updates and Discussion:

- Discussion of Enhanced E911 system and impacts of GIS staffing.

RESOLUTION REQUEST FORM NO. 8

Request to _Establish_ Capital Project or Capital _Reserve_ Project*

*If this is the result of a grant award, also complete and submit Form No. 5 or 6

DEPARTMENT NAME: Planning and Community Development

DATE: 30 May 2014

    (a)   Exact Title* and Number of Project **(must be obtained from Treasurer's Office):**
        H349 – First Wilderness 2013

    (b)   Is this a Capital Project?

    (c)   Is this a Capital Reserve Project?
        No

    (d)   Amount of Project:
        H349.9550 280 - $1,107,000,

    (e)   Source of Funding (including name & title of codes, etc.):
        H349.9550 2790 - $553,500 – Share of Joint Activity, Local, H349.9550 3897 - $553,500 – Culture & Recreation

    (f)   Purpose of Establishment:
        Administer grant award from Local Waterfront Revitalization Program

*Title should reflect department if possible:

i.e. Capital Project No. H274.9550 280 _Replace VASI with PAPI_ would be clearer if name was listed as _Airport Replace VASI with PAPI._

RESOLUTION REQUEST FORM NO. 11

Request to Create <u>New</u> Position

DEPARTMENT NAME: **Planning and Community Development**

DATE: **30 May 2014**

(a) Title of Requested Position: **Temporary help - GIS Technican**

(b) Annual **Base** Salary (and Grade if Applicable): **$15/hour for 200 hours**

(c) Effective Date for New Position:* **1 July 2014**
*Please do not backdate unless the purpose is to correct an error.

(d) List Any Position in the Department's Table of Organization Being Deleted as a Result of this Request: (Include annual salary and grade if applicable):

N/A

(e) Where are Funds in the Budget for this Position? List Budget Code, Object Code, Full Title and Amount:

To be determined

(f) Has Personnel Officer Reviewed and Approved of the New Position Title? (This is necessary **BEFORE** bringing the request to committees.)

Yes

(g) Is this a mandated position? If so, please explain:
No

(h) Is there expected revenue from this position? If so, please explain:

NO, the purpose is to quality control check point data received from the State for use in the E911 operations.

RESOLUTION REQUEST FORM NO. 7

*Request to Amend County Budget**

**If this is the result of a grant award, also complete and submit Form No. 5 or 6*

DEPARTMENT NAME: Planning and Community Development

DATE: 30 May 2014

    (a)   Purpose of Amendment:

        Provide funding for temporary GIS Technican employee

    (b)   Appropriation Code, Object Code, Full Title and Amount:

        A8022 120 $3,000
        A8022 830 $186
        A8022 831 $44
        A8022 810 $324
                   $3,554

    (c)   Revenue Code (<u>with title</u>), and Amount:

        To be determined

GIS Data Preparation for
Next Generation e-911

Current e-911

- Uses analog technology developed in the 1960's
- Has not been substantially updated since then, despite significant changes in technology and the advent of cell phones and GPS
- 85% of calls today are downgraded to analog voice to work with e-911
- 73% of today's e-911 calls are wireless (60%+ in Warren County)
- Calls are located using an address database maintained by Verizon (coordinated with GIS in our office and in the dispatch center) for landlines, and sectors of cell towers for wireless calls

What is Next-Gen 911?

- An Internet Protocol (IP) based system that allows digital information (voice, photos, videos, text messages) to flow from the public through the 911 network to emergency responders
- Greatly improved capabilities for meeting the needs of people with disabilities
- 911 will be regional, interconnected and ultimately will be seamless nationwide
- Long-term cost savings through increased efficiency and shared services and information
- Locations will be routed to call centers based entirely through a GIS server, called the Location Information Server, or LIS

Time frame: 3-5 years+

Requirements for Next-Gen 911

- Coordination with regional partners (Warren County has partnered already with Washington County for a "geodiverse solution")
- Investment in next-gen 911 compatible hardware (Sheriff's department is taking delivery of new compatible equipment this week, but much more equipment still needs to be put into place)
- Revised roles, sharing and authority for putting the system in place – IT and Sheriff's department can provide more details on the sharing and hardware end of things
- Funding for initial costs and continued funding for maintenance
- Cooperation from phone companies (lawsuits are underway in several states)
- Major GIS data improvement efforts: this is where we come in. ALL GIS DATA must be accurate and up-to-date before a vendor will consider setting up the system. There must be a **98% match** between the various databases used for call location.

GIS Data Improvement for next-gen 911

- Five critical datasets:
  - **MSAG:** spreadsheet listing of streets and address ranges maintained by Verizon (can be maintained in-house or by a vendor of our choosing with next-gen)
  - **ALI:** spreadsheet location of individual residences, with addresses and phone numbers, maintained by Verizon (same as above)
  - **ESZ:** GIS layer of Emergency service zones (combination of fire, ambulance, and law enforcement), maintained by Planning Department
  - **Road Centerlines:** GIS database of all roads within the county with associated address ranges, maintained by Planning Department
  - **Address Points:** GIS layer of location of every structure (or unit within apartment buildings, offices, etc) with 911 address, within the County. We do not yet have this dataset – the state is developing a preliminary dataset which will be delivered in June, but which will require much review and field work to update and verify before it can be incorporated into system
- **Datasets must have a 98% match rate before next-gen E-911 can be implemented. This will entail a large amount of work**
  - **MSAG:** contains 3,364 records. Must be compared line by line to Road Centerline database. Any errors identified on Verizon's end must be communicated to Verizon via a form to be corrected. Any errors on our end must be corrected in the Road Centerline database. May require some field work, but most time will be in office.
    - Estimated time to complete: 200hrs
    - Suggested personnel: Marty and Sara
  - **ALI:** contains ~48,000 records. We currently have a 92% match, with 3800 unmatched records. Of these, nearly 1600 have a "0" address. Every single record needs to be gone through individually to determine the reason for mismatch and all of the 0 addresses need to be either assigned an address or the correct existing address needs to be determined. After corrections are determined, updates to the database need to be communicated to Verizon. This will require coordination with local towns and extensive field work.
    - Estimated time to complete: ~300hrs
    - Suggested personnel: Marty, Sara, temp worker, some assistance from town assessors
  - **ESZ:** this database needs to be checked for accuracy and compared to the Road Centerline and MSAG databases to ensure a match.
    - Estimated time to complete: ~20 hours
    - Suggested personnel: Sara
  - **Road Centerlines:** contains 6,813 records. This is the primary dataset currently used in the CAD and will be the primary dataset used in next-gen e-911. It is critical that this dataset be as close to 100% accurate as

possible. In addition to comparing with the MSAG, we need to perform the following checks:

- All roads named and spelled correctly, with correct prefixes and suffixes, and match other databases
- All roads have address ranges
- Address ranges are correct
- No overlapping address ranges
- Address ranges are consistent with other databases (ALI, MSAG, address points)
- Roads are split at intersections, muni boundaries and ESZ boundaries
- No overlaps or undershoots
- Alias table fully populated and correct
- No duplicate centerlines

Marty and Sara consistently work with the Sheriff's department on improving this dataset, and improvements and updates happen on a near daily basis. However, we need to have time to do a complete, thorough review and update of this data record by record, rather than correcting errors as we come across them or as they are brought to our attention by the dispatch center due to a problem when a call comes in.

- Estimated time to complete: ~200 hrs
- Suggested personnel: Marty and Sara
- **Address Points:** anticipated ~50,000-60,000 records. This dataset is being generated by the state, using data that we've provided to them (parcels, road centerlines) as well as data they've procured (aerial photography, postal databases). We do not have a great sense of how accurate the data will be yet, but based on discussions with the state, we know that we will have a fair amount of QA/QC
  - No addresses will be assigned for units in condos, office buildings, apartments, trailer parks, etc. We will need to place and populate all of these address points, which we anticipate will number in the thousands
  - No field work is being done by the state. We anticipate that this will require extensive time in the field with the GPS so that we can locate structures that can't be seen on the aerials due to tree cover and other factors
  - Estimated time to complete: ~300 hrs
  - Suggested personnel: mostly temp worker with some assistance from Marty and Sara

TOTAL ESTIMATED TIME FOR ALL TASKS: ~1020 hours

Work element		Sara	Martin	Temp	Total
MSAG		75	125	0	$8,485.75
ALI		40	60	200	$7,483.00
ESZ		20	0	0	$899.20
Road centerlines		60	140		$8,425.00
Address points		75	25	200	$7,624.75
		270	350	400	$32,917.70
Alternate					
Work element		Sara	Martin	Temp	Total
MSAG		75	125	0	$8,485.75
ALI		140	160	0	$12,840.00
ESZ		20	0	0	$899.20
Road centerlines		60	140	0	$8,425.00
Address points		175	125	0	$12,981.75
		470	550	0	$43,631.70