

ADDRESS OF SUCCESS: USING WEB-BASED TOOLS TO MAINTAIN ADDRESSES

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Presented to:

PA GIS Conference

INTRODUCTION – JMT Technology Group



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- Director of GIS, over 20 years of experience in GIS
- Member of the NENA GIS Model V2 Working Group
- Volunteer fire fighter of over 20 years and president of current department (Mt. Ephraim, NJ)
- NG911 Institute 2022 911 Outstanding Industry Professional Award



AGENDA

- Address Protocol Purpose
- Challenges/Authority
- Stakeholder Engagement/Needs
- Best Practices Toolkit Tour
- Questions/Comments





ADDRESSING PROTOCOL PURPOSE

- Define both the municipality and County's role in addressing
- Provide guidelines to local addressing authorities to assign and manage street names and addresses within the PSAP
- Guidance complies with federal, state and county standards necessary to ensure that Next Generation 911 (NG911) operates as intended
- Simplify the process through easy-to-use online tools available in a single platform



**ADDRESS
REQUEST**



**REVIEW COUNTY
GUIDELINES**



**UTILIZE COUNTY
ADDRESS
TOOLKIT**



**PROPOSED
ADDRESS
REVIEW**



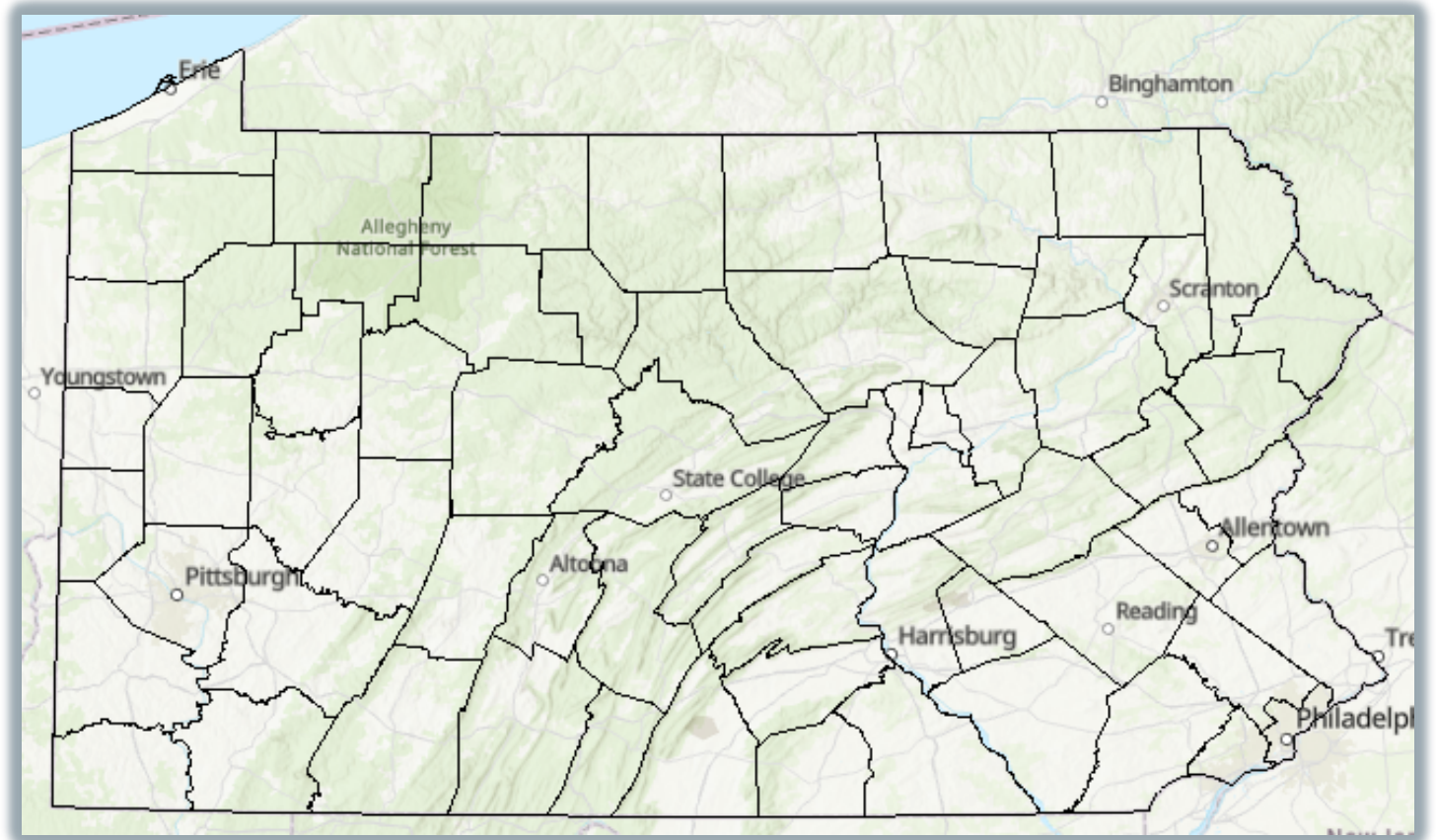
**ADDRESS
CONFIRMED**



**911 SYSTEM
UPDATED**

STATEWIDE ADDRESSING CHALLENGES

- 2560 Municipalities in PA*
 - Borough
 - 1st Township
 - 2nd Township
 - City
 - Various address review processes
- 61 PSAP's in PA serving 67 counties**
 - Various CAD systems
 - Plan review processes
- Many ways to complete the same tasks



* PA Dept of Community & Economic Development, retrieved from <https://dced.pa.gov/local-government/municipal-statistics/municipalities/>

** Pennsylvania Emergency Management Agency , retrieved from <https://www.pema.pa.gov/911-Program/Pages/PSAP-Directory.aspx>



WHO IS RESPONSIBLE COUNTY/PSAP OR MUNICIPALITY?.....YES

- Building numbering and street naming to municipalities
 - Boroughs, 1st & 2nd Townships and Cities each have own codes
- 911 Communication to the County/PSAP
 - Title 35 (Health and Safety), Chapter 53
- Address and Street Naming management requires coordination between municipality and PSAP
- Some counties in PA have taken over addressing authority through special local arrangements/ordinances



§ 5303. **Telecommunications management.**
(a) **Powers and duties of agency.**--The agency shall have the following powers and duties:
(1) **To adopt rules and regulations as necessary to enforce this chapter.** Rules and regulations proposed under the authority of this section shall be subject to review by the General Counsel and the Attorney General in the manner provided for the review of proposed rules and regulations pursuant to the act of October 15, 1980 (P.L.950, No.164), known as the Commonwealth Attorneys Act, and the act of June 25, 1982 (P.L.633, No.181), known as the Regulatory Review Act.
(2) To publish guidelines and application procedures for the collection and distribution of fees collected under this chapter.
(3) To receive, review and approve or disapprove all 911 system plans in accordance with standards developed in consultation with the board.
(4) To establish, in consultation with the board, a Statewide 911 plan that sets forth priorities for 911 systems in this Commonwealth and plans for next generation 911 technology.
(5) To designate a State 911 coordinator who shall be an employee of the agency.
(6) To provide administrative and support staff to the board as necessary.
(7) To establish formulas and methods to distribute money in accordance with section 5306.1 (relating to fund) in consultation with the board.
(8) **To establish and publish annually uniform standards relating to technology, next generation 911 technology, administration and operation of 911 systems** in consultation with the board.

housing regulations in accordance with Article XXXI-A.

(1502.8 added Oct. 29, 2020, P.L.782, No.96)

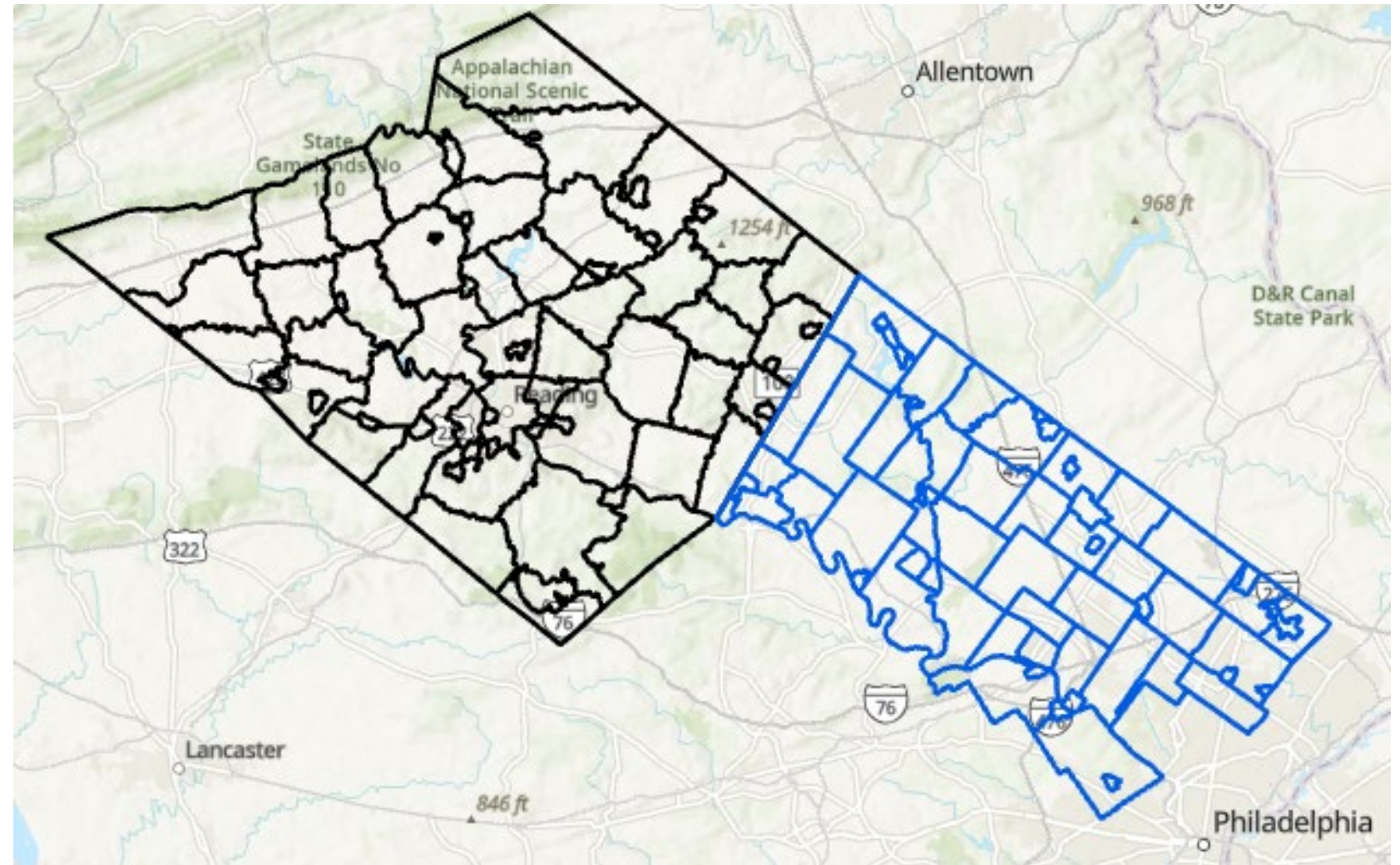
Section 1502.9. Numbering Buildings.--The board of commissioners may, by ordinance, require and regulate the numbering of buildings and lots.

(1502.9 added Oct. 29, 2020, P.L.782, No.96)

Section 1502.10. Regulation of Business.--To provide for the prohibition, licensing and regulation of business, a board of

PROJECT AREAS

- Berks and Montgomery County PSAPs
- PEMA Interconnectivity Grants
- Phase 3 of each project
- Berks - 72 municipalities
 - Over 170,000 Address Points
- Montgomery County – 62 municipalities
 - Over 330,000 Address points



HOW WE GOT THERE



Stakeholder Engagement

Identified opportunities for stakeholder interaction

Meet face-to-face (if possible) may bring stakeholders together for first time



Creation of Address and Sub-Address Points

Develop “What to Do” standards for editing common address scenarios in GIS



Address Maintenance Protocol

Develop formal guidance from the scenarios to establish workflows



Tools to Support Maintenance

Provide tools and training for stakeholders to follow address protocol

Web-based for easier deployment, access and maintenance

STAKEHOLDER NEEDS

- Met with hundreds of stakeholders through workshops
- Simplified addressing guidance
 - Most local stakeholders are not reviewing NENA or PEMA guidance
 - Not GIS “Power” users
- Access to authoritative data to assist with address/street name management
- Process to streamline workflow and reduces overall addressing effort

Berks County Addressing Best Practices Guide

Purpose

The purpose of this document is to provide guidelines for addressing authorities to assign and manage street names and addresses within the County of Berks (the County). These best practices will help the County maintain the data and ensure the street names and addresses comply with federal, state and county standards necessary to ensure that Next Generation 911 (NG911) operates as intended.

The guidelines will define both the municipality and County's role in addressing and simplify the process through easy-to-use online tools available in a single web-based platform. Overall, the guidelines described herein will enhance public safety for the citizens of Berks County through development of an addressing protocol compliant with state and federal standards and lead to more effective government services related to accurate county addressing.

Introduction

An address defines a specific geographic location and is used (among other purposes) by emergency responders to locate and respond to the correct location when needed. A basic function of local government is to assign street names and addresses. This is often perceived as a relatively routine task until an address cannot be located, especially in an emergency. If the addressing is not completed with consistent guidelines, several common issues can occur which can result in delayed emergency responses.

These issues can be avoided by consistently following generally accepted state-wide and nationwide best practices in addressing assignments and notification.

The addressing authority in Berks County has been generally accepted by the individual municipalities with limited coordination amongst them. With seventy-two (72) municipalities within the County, inconsistencies can exist between their individual addressing assignment processes. Although neither Berks County nor the United States Postal Service (USPS) has formal



Common Issues

- Duplicate street names and/or addresses used for different in adjacent or nearby municipalities
- Multiple street names used for the same street

Benefits of Coordination

- Provide accurate and complete county-wide addressing data for improved public safety
- Use best available technology to accurately locate emergencies and route emergency personnel
- Improve response times of emergency services
- Standardize & streamline the address validation process
- Improve delivery of mail and services to county residents

This document will not provide guidance for every scenario within the County but will serve as a foundation for municipalities to manage their addressing responsibilities with support from the County. Given the importance of maintaining accurate and current addressing data for public safety the County is focused on building a strong relationship in coordinating with each municipality to meet these goals.

The recommendations in this document have been adapted from the address standards set forth by the National Emergency Number Association (NENA) and further expanded upon by the Pennsylvania Emergency Management Agency (PEMA) to meet the Commonwealth's needs. Weblinks for each of their standards are provided below (links retrieved on 02/28/2022).

<https://www.nena.org/general/custom.asp?page=SSAP>

<https://www.pema.pa.gov/911-Program/Partners/NG911-GIS/Documents/NG911-GIS-Best-Practices.PDF>

Addressing Authority

The Municipal and Township Codes of the Commonwealth delegate addressing authority to the municipalities. Though the USPS often assists municipalities in verifying addresses the popular misconception that they share the responsibility is not the case. These codes formally separate street naming and building numbering as individual responsibilities:

- *Second Class Township Code (1933 Act 69) Section 1520 for the Numbering of Buildings and Section 2329 for the Naming of Streets*
- *Borough Code, Title 8, Chapter 17, Subchapter B, Section 1712 – Borough Street Plan and Section 1202, Item 18 Numbering of Buildings and Lots*

ADDRESSING WEB TOOLKIT SOLUTION

- Hosted in ArcGIS Online
- Maintained by PSAP
 - Multiple options for providing access
- No-Code COTS solution
- Storymap w/imbedded maps and dashboard
- Guidance and tools in one
- Self-service
- All stakeholders working with authoritative data
- Review current address and street names and propose new ones to PSAP for recommendations

Berks County PA

[Purpose](#) [What is NextGen 911?](#) [Your Role](#) [County Role](#) [Common Issues](#) [General Guidance](#) [Coordinated County / Municipal...](#)

[Feedback/Contact Us](#)

Purpose

Provide guidelines to local addressing authorities to develop and manage street names and addresses.

Process Tracking

A dashboard is available to track the progress of the proposed addresses and street names. The tool allows users to perform basic address recommendations for those addresses and street names for incorporation into the official values.

12 EAST MAIN STREET(S)
100 FIRST AVENUE
Last update: a few second
Ad...
Proposed Address Status

Single Residence
Example: Single family home

Single or Multi-Unit Residence on a Corner
Example: Primary entrance to the structure does not face the street on which it is addressed. Often the...

"Flag Lot" for Single Residence
Example: Property is behind other properties, and the address may appear to be out of sequence. The...

Multi-Unit or Converted Residence Single ...
Example: Single family residence that has been converted into apartments.

1200 LAKE SHORE DR APT 2

Map showing various locations and streets, including Leesport, Maiden Creek, and Blandon.

QUESTIONS?



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