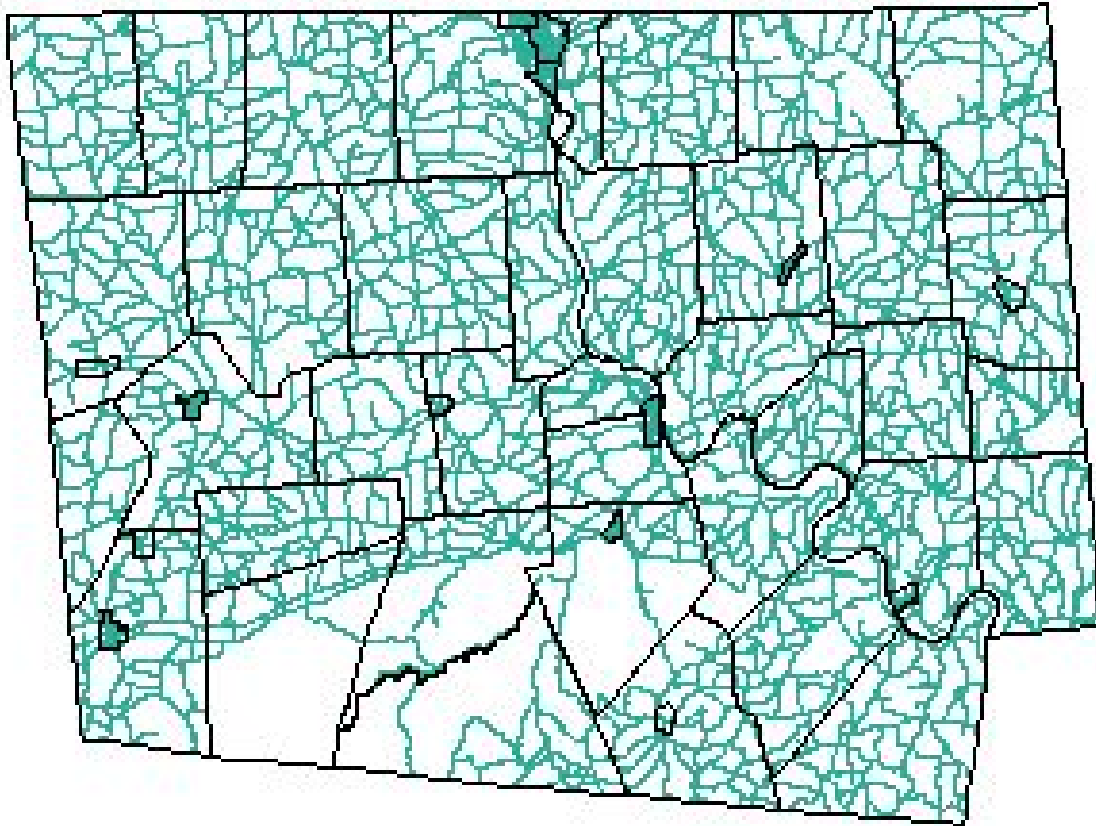


A Behind the Scenes Look at Re-addressing Rural Routes



Presenters



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Grants



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General Information on Bradford County

- ◆ County in the Northern Tier Region
- ◆ Population 62,761 (2000 Census)
- ◆ Second Largest County in State (1,161 Square Miles)
- ◆ Population Density 54.5 Persons/Sq Mi (2000 Census)
- ◆ 51 Municipalities
- ◆ 28,664 Housing Units (2000 Census)
- ◆ 4,211 Vacant Housing Units (2000 Census)
- ◆ 62% of the 4,211 Units are Seasonal (2000 Census)
- ◆ 30,559 Structures Collected (1st Round)
- ◆ 3,666 Other Features Collected (1st Round)

Bradford County 9-1-1 History

- ◆ 1992-93 - Enhanced 9-1-1 and re-addressing initially discussed.
- ◆ 1995 - 9-1-1 implemented without re-addressing (callers must describe location).
- ◆ 2000 - Re-addressing issue approached a second time.
- ◆ 2001 - Bradford County Commissioners approve process and adopt policy.
- ◆ 2001 - Municipal Road/Street Name Inventory
- ◆ 2002 - Road/Street Name Issues Identified and Recommendations Made
- ◆ 2002 to Present - GPS Point Collection

Policy Development

◆ Counties looked at for direction

- Mifflin, Elk, and Lycoming

◆ Establish Purpose

◆ Considerations

- Municipal Conformity
- Street Naming Policy
- Addressing Policy
- Signs
- Enforcement

Street/Road Centerline GIS Layer

◆ Original Layer

◆ Considerations

- Base map information for road centerline adjustments
- Standards/Format
 - ◆ NENA (National Address Number Association)
 - ◆ PAMAGIC (Pennsylvania Mapping And Geographic Information Consortium)
 - ◆ FGDC (Federal Geographic Data Committee)

Primary Data Fields for the Street/Road Centerline GIS Layer

- ◆ MUNI – Municipality
- ◆ PRD –Prefix Directional
- ◆ STN – Street Name
- ◆ STS – Street Suffix
- ◆ POD – Post Directional
- ◆ LLO, LHI, RLO, RHI – Address Ranges
- ◆ MCL, MCR – Municipality (Left & Right)
- ◆ DNM – Complete Road/Street Name
- ◆ TNM – Township Road/Street Number
- ◆ SNM – State Road/Street Number
- ◆ SL, SR – Speed Limits (Left & Right)
- ◆ ONW – One Way Street
- ◆ ID_COL, ID_COR – County ID (FIPS CODE) (Left & Right)

Secondary Data Fields for the Street/Road Centerline GIS Layer

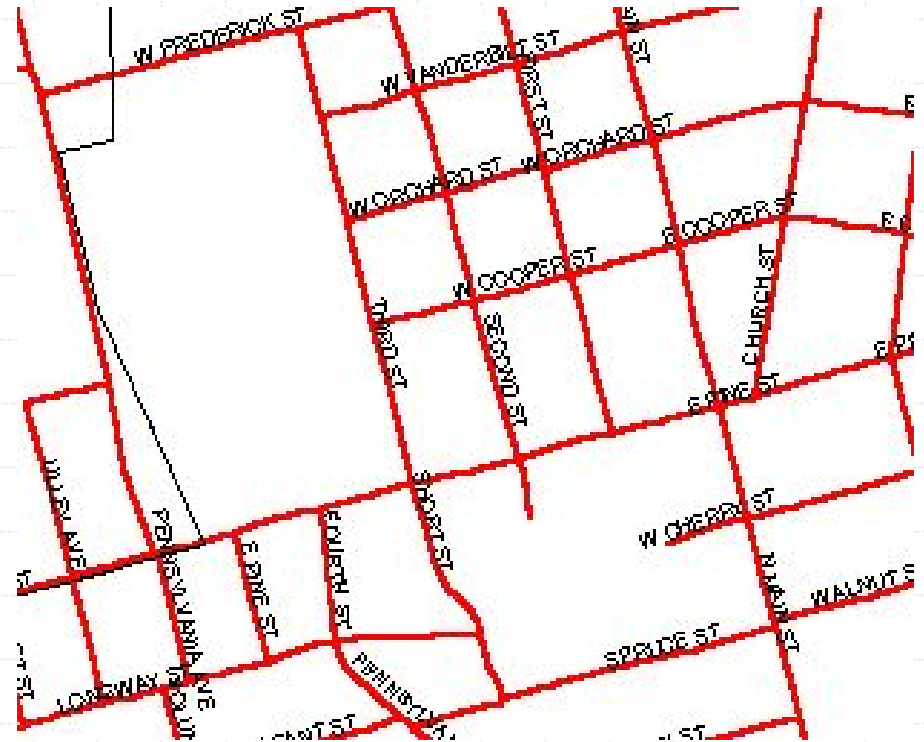
- ◆ SOD – Person Editing (Name Abbreviation)
- ◆ DLU – Date of Last Update
- ◆ Addressed – Script 1 Flag (Y or N)
- ◆ DUP_RD_NM – Road Name Duplicated
- ◆ SIMSND_NM – Similar Sounding Name
- ◆ XING_ISSUE – Name Problem At Municipal Line

Data Sample for the Street/Road Centerline GIS Layer

STN	STS	POD	LLO	LHI	RLO	RHI	MCL	MCR	DNM	TNM	SNM	SL	SR	RO	CO	ID_CO
ECHO BEACH	RD		967	2553	968	2554	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	ECHO BEACH RD		SR 2023	55	55	Y	42015	
SILL	RD		1	87	2	88	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	SILL RD	T 466		45	45	Y	42015	
ANN	ST		1	571	2	572	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	ANN ST	T 463		45	45	Y	42015	
PA STATE RTE 187			20257	20779	20258	20780	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	PA STATE RTE 187		SR 0187	55	55	Y	42015	
COLE	RD		1	1079	2	1080	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	COLE RD	T 461		45	45	Y	42015	
ECHO BEACH	RD		1	965	2	966	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	ECHO BEACH RD		SR 2023	55	55	Y	42015	
PA STATE RTE 187			19375	20255	19376	20256	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	PA STATE RTE 187		SR 0187	55	55	Y	42015	
PA STATE RTE 187			18803	19373	18804	19374	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	PA STATE RTE 187		SR 0187	55	55	Y	42015	
PA STATE RTE 187			18353	18801	18354	18802	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	PA STATE RTE 187		SR 0187	55	55	Y	42015	
BRIDGE	ST		1	43	0	0	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	BRIDGE ST	T 460		45	45	Y	42015	
BRIDGE	ST		0	0	2	20	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	BRIDGE ST	T 460		45	45	Y	42015	
PA STATE RTE 187			18309	18351	18310	18352	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	PA STATE RTE 187		SR 0187	55	55	Y	42015	
BRIDGE	ST		45	691	46	692	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	BRIDGE ST	T 460		45	45	Y	42015	
QUEENS	RD		21	465	22	466	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	QUEENS RD	T 458		45	45	Y	42015	
FRENCH ASYLUM	RD		2997	3217	2998	3218	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	FRENCH ASYLUM RD		SR 2014	55	55	Y	42015	
PA STATE RTE 187			17723	18307	17724	18308	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	PA STATE RTE 187		SR 0187	55	55	Y	42015	
KILMER HL	RD		1987	3855	1988	3856	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	KILMER HILL RD		SR 2028	55	55	Y	42015	
RIVER	ST		1	439	2	440	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	RIVER ST	T 459		45	45	Y	42015	
KILMER HL	RD		1267	1947	1268	1948	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	KILMER HILL RD		SR 2028	55	55	Y	42015	
PA STATE RTE 187			17519	17721	17520	17722	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	PA STATE RTE 187		SR 0187	55	55	Y	42015	
FRENCH ASYLUM	RD		3237	3885	3238	3886	ASYLUM TOWNSHIP	ASYLUM TOWNSHIP	FRENCH ASYLUM RD		SR 2014	55	55	Y	42015	

Road/Street Name Inventory

- ◆ Penn DOT road/street names initially attributed
- ◆ Maps forwarded to municipalities requesting edits
- ◆ Corrections returned
- ◆ Edits made to Road/Street Centerline GIS Layer



Road and Street Name Issues

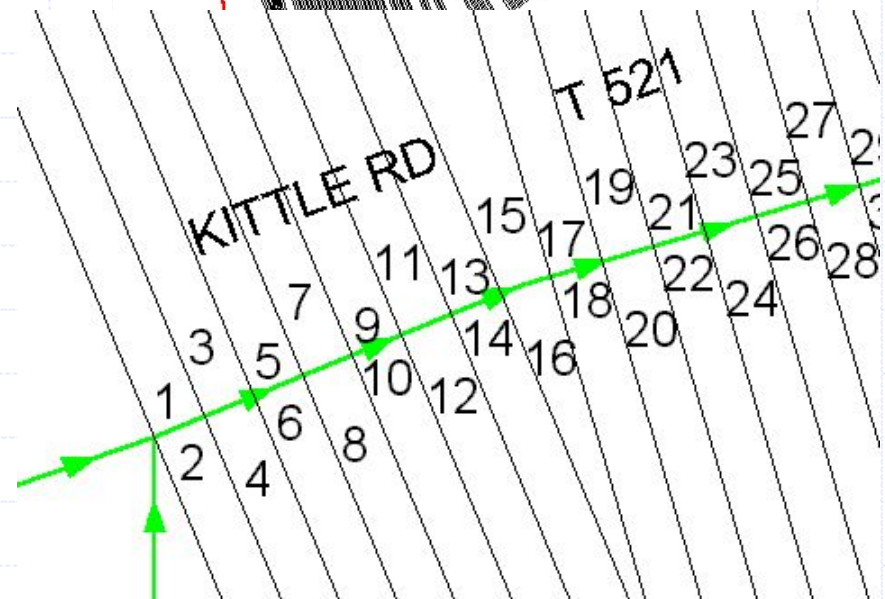
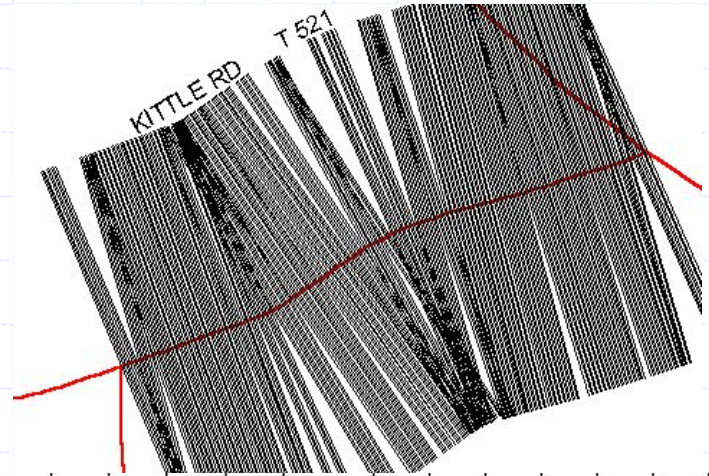
- ◆ Duplicated Names
- ◆ Similar Sounding and Spelled Names
- ◆ Name Issues Crossing Municipal Boundaries Issues
- ◆ Considerations: Postal Delivery Areas, Emergency Service Areas, and Individual Municipalities

Extension Development

- ◆ Mike Anderson – Spatial Information Technologies, Inc.
- ◆ ArcView 3.2 and Avenue
- ◆ 2 Extensions

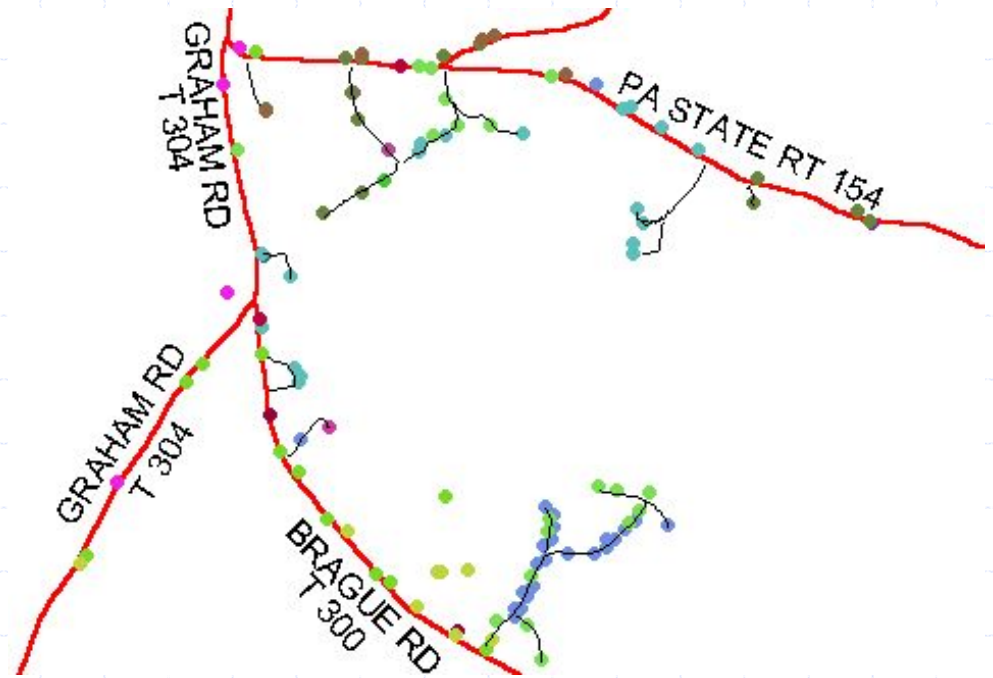
Extension 1 Put to Use – Process of Creating Address Ranges

- ◆ Odd on Left Even on Right
- ◆ Numbering is either South to North or West to East
- ◆ Numbers change Every 10.56'
- ◆ The use of Extension 1



GPS use with the Project

- ◆ Data Collection and Input
 - 2 person field crew
 - 9-1-1 Vehicle
 - Information to Collect
 - Data Dictionary Creation and Evolution
 - Where to Collect Information
 - Information Utilized
 - Data Entry
 - Post Processing Data
 - New Construction

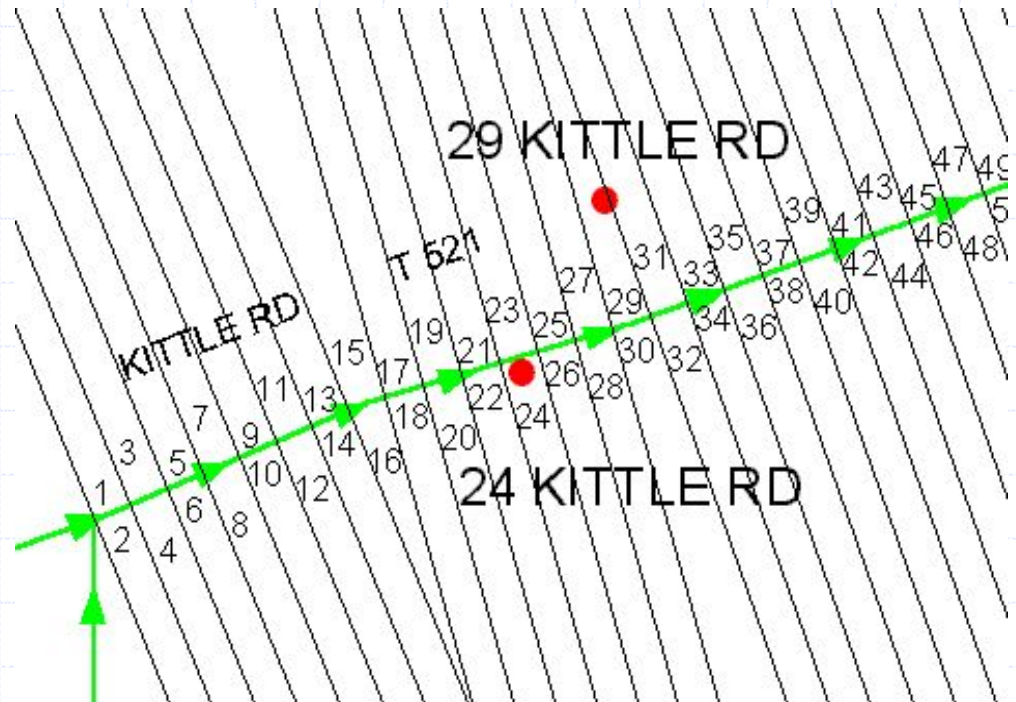


Private Drive Inventory

- ◆ GPS collection information (I.e. private drive GPS centerlines)
- ◆ Maps with private Drives needing names forwarded to municipalities (Private drives with 2 or more addressable structures)
- ◆ Municipalities gather private drive names and return them to the County.
- ◆ Edits made to Road/Street Centerline GIS Layer.
- ◆ County follow-up with landowners not responding to municipal request for names.
- ◆ Edits made to Road/Street Centerline GIS Layer.

Extension 2 Put to Use - Process of New Address Assignment

- ◆ The new address is derived from the GPS collection point's location, relative to the Road/Street Centerline
- ◆ The use of Extension 2
- ◆ GPS point file updated



Re-addressing Subcommittee

- ◆ Purpose
- ◆ Members
- ◆ Organize Project Focus
- ◆ Problem Resolution
- ◆ Prioritize Areas
- ◆ Public Relations

GPS File Primary Fields

- ◆ SAN – Street Address Number
- ◆ PRD – Prefix Directional
- ◆ STN – Street Name
- ◆ STS – Street Suffix
- ◆ POD – Post Directional
- ◆ MCN – Municipality Name
- ◆ STCO – State and County Code (FIPS)
- ◆ STY – Stories
- ◆ MULTIADR – Multi-Family Structure (Y or N)
- ◆ PHOTO_NUMB – Photo Number
- ◆ TAX_PARCEL – Tax Parcel Number (DMP)
- ◆ FEAT_NAME – Structure Type
- ◆ ESN – Emergency Service Number

GPS Secondary Fields

- ◆ GPS_DATE – Date Point was Collected
- ◆ GPS_TIME – Time Point was Collected
- ◆ DATA_DICTI – Data Dictionary Used
- ◆ VERIFY – Double Check Flag (Script 2)
- ◆ GPS_Height – Elevation Above Sea Level (ASL)
- ◆ NORTHING – Latitude (PA State Plane North)
- ◆ EASTING – Longitude (PA State Plane North)

Other GIS Layers Developed During the Project

- ◆ Tax Parcels
- ◆ Emergency Service Areas (ESN)
- ◆ Postal Delivery Areas (Zip Codes)
- ◆ In Addition to Addressable Structures,
Point Location for: Cemeteries, Towers,
Fire Hydrants, Dry Hydrants,
Road/Street Intersections, Road Signs,
and Municipal Boundary Signs

Public Relations

- ◆ Getting the word out
- ◆ Involve and educate the media
- ◆ Information preparation
 - Project Brochures
 - Documentation on who the public will need to contact regarding their address change.
- ◆ Respond directly to issues and concerns
 - Immediately
- ◆ Help Line (1-800-*.*)

Once the New Addresses are Prepared, What's Next?

- ◆ Solidifying Road Names (Municipal Ordinance/Penn DOT).
- ◆ LOGISIS.
- ◆ Linking new addresses to existing addresses (this includes linking information to the Assessment Office and USPS records).
- ◆ Forward info to USPS for review and approval.
- ◆ Prepare maps for emergency services and post office.
- ◆ Send out change notices when USPS approves the conversion.
- ◆ Preparation for new address assignment.
- ◆ Move on to the next municipality to be addressed.