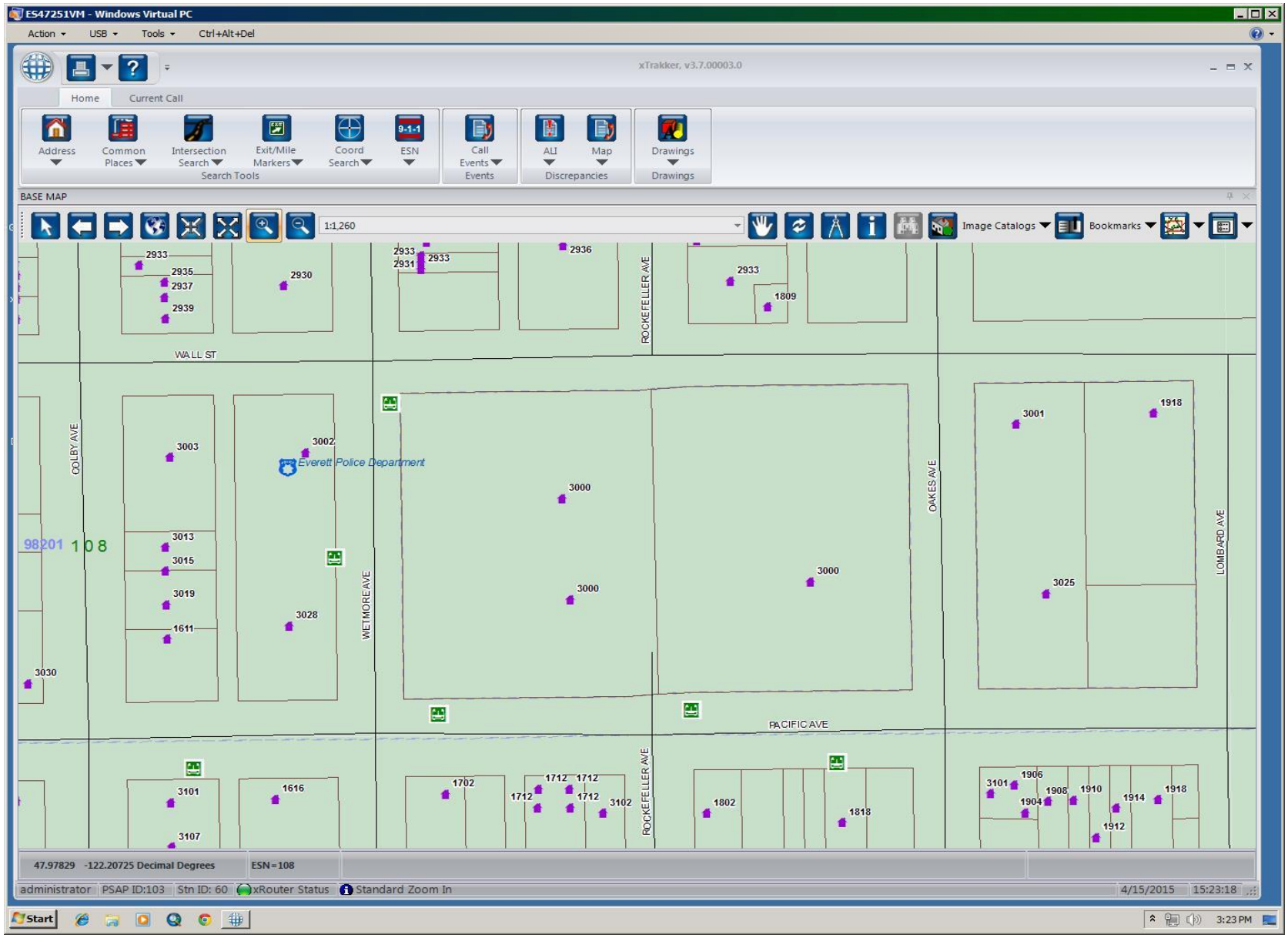
Snohomish County GIS User Group
April 21, 2015

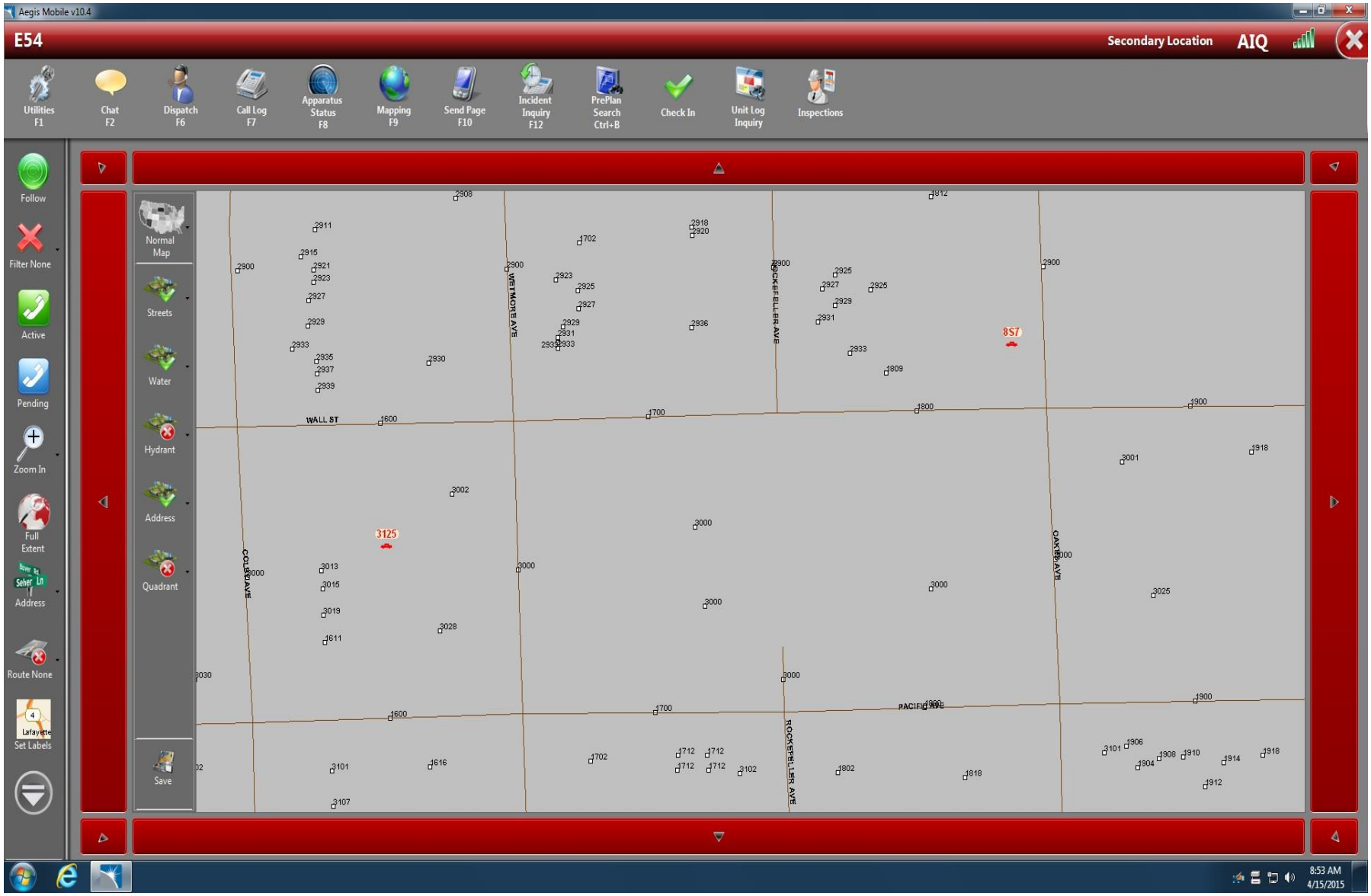
Presenter: Robert Mueller

Welcome

View of E911 Center Call Taker Map



View of NW Fire Mobile Map



Addressing Standards

- USPS Publication 28

  Contains Standard Addressing Abbreviations

- NENA (National Emergency Number Association)
  - GIS Data Collection and Maintenance Standards

- NENA
  - Standard for NG9-1-1 GIS Data Model

    (In draft form and final stages of review, to be published soon)

Snohomish County E9-1-1 Data Layers

Location Data

- Address points
- Road Centerlines

Service Boundary

- PSAP
- Fire/EMS
- Law
- City Boundaries
- ESN boundaries, Etc….

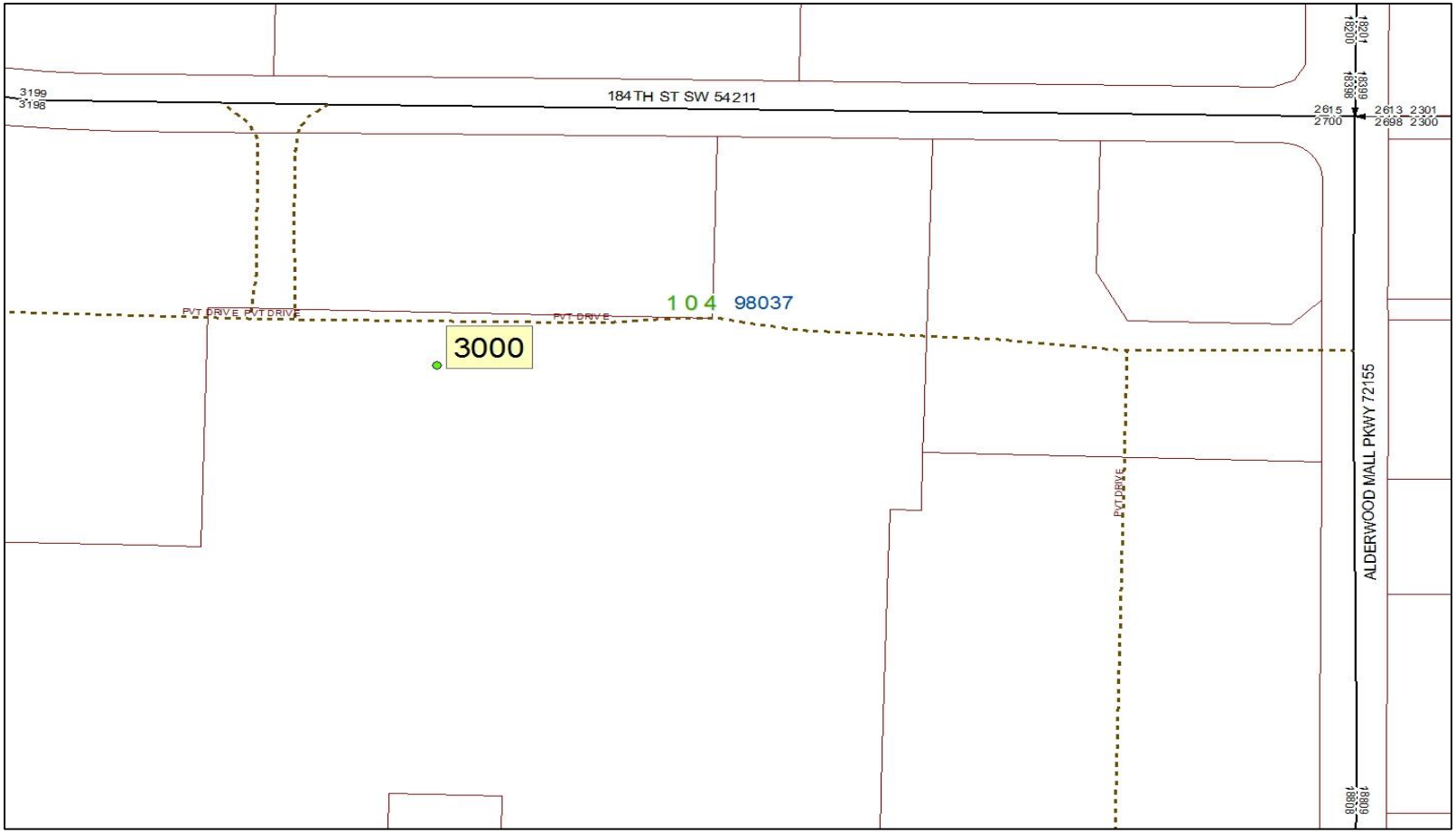
Why do we need increased accuracy?

- The Snohomish County 911 Call Centers are converting to a GIS centric “New World” call and dispatch software
- The GIS data is used to route 9-1-1 calls to the appropriate 9-1-1 call center.
- Address point accuracy is needed for pin point geo-verification of incident address at the call center
- The “New World” system dispatch software will require a minimum 98% accuracy address match.
  - It will provide full mapping integration between police and fire/EMS mobile units and the 911 call centers county wide.
  - Street and address point accuracy is necessary for AVL (Auto Vehicle Location), proximity dispatching & cross street validation.

Geocoding by street

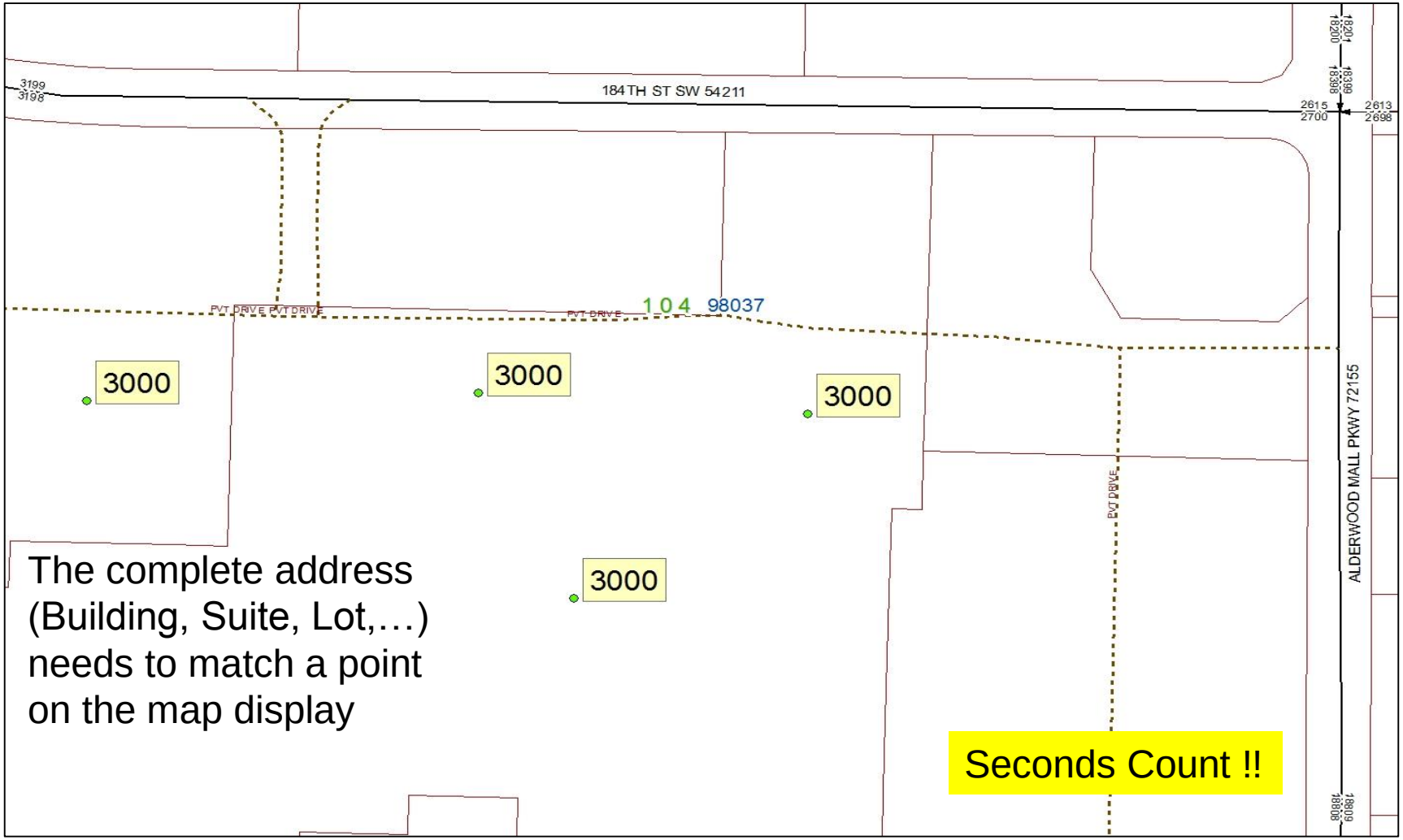
Likely does not yield the best result for 9-1-1

Address: 3000 184th ST SW
Plots on Map Display, …….Is that good enough?

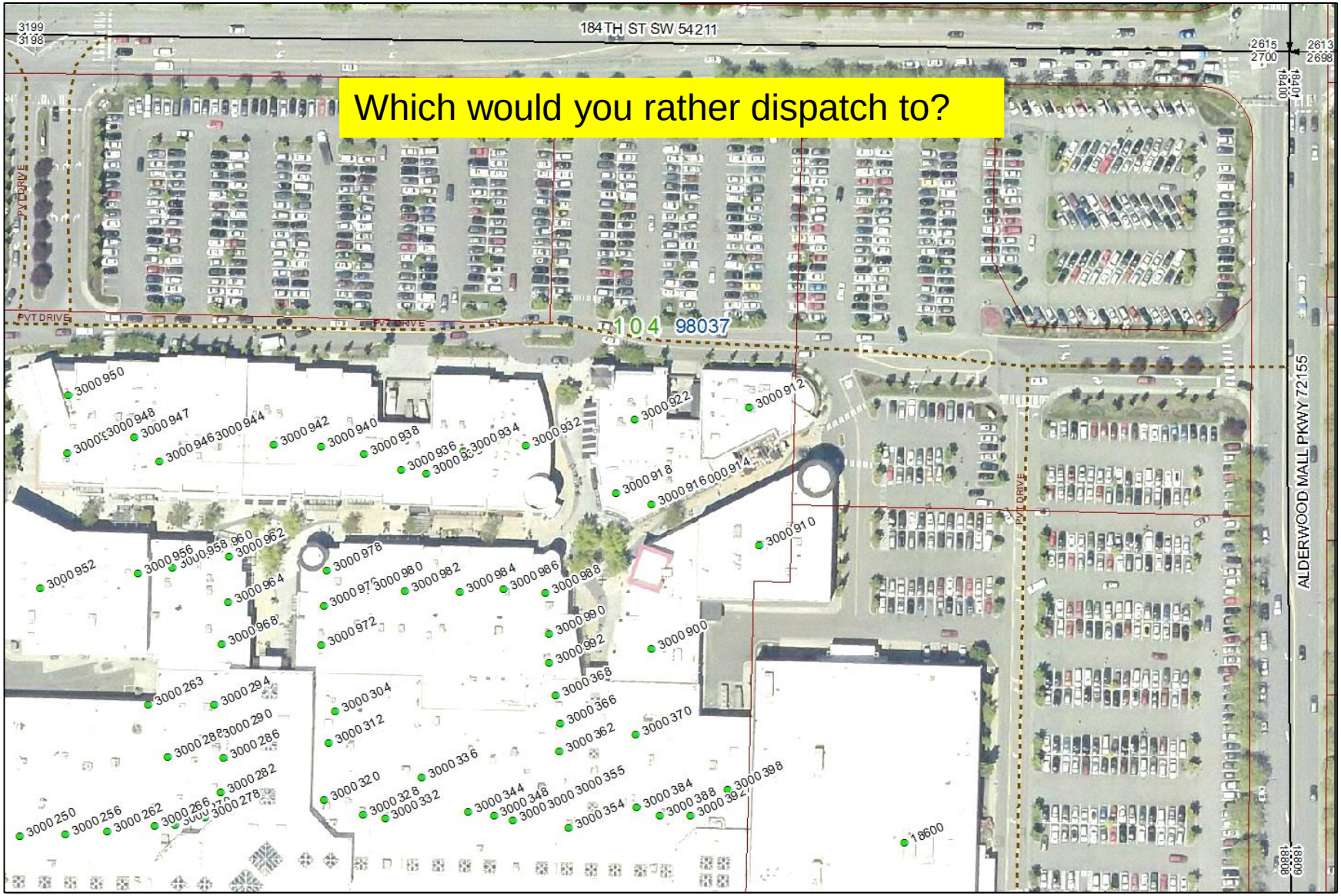


In this case, and many others, the answer for 9-1-1 is “NO!”

This example looks better, shows multiple locations,
but ……are they correct, is this good enough?



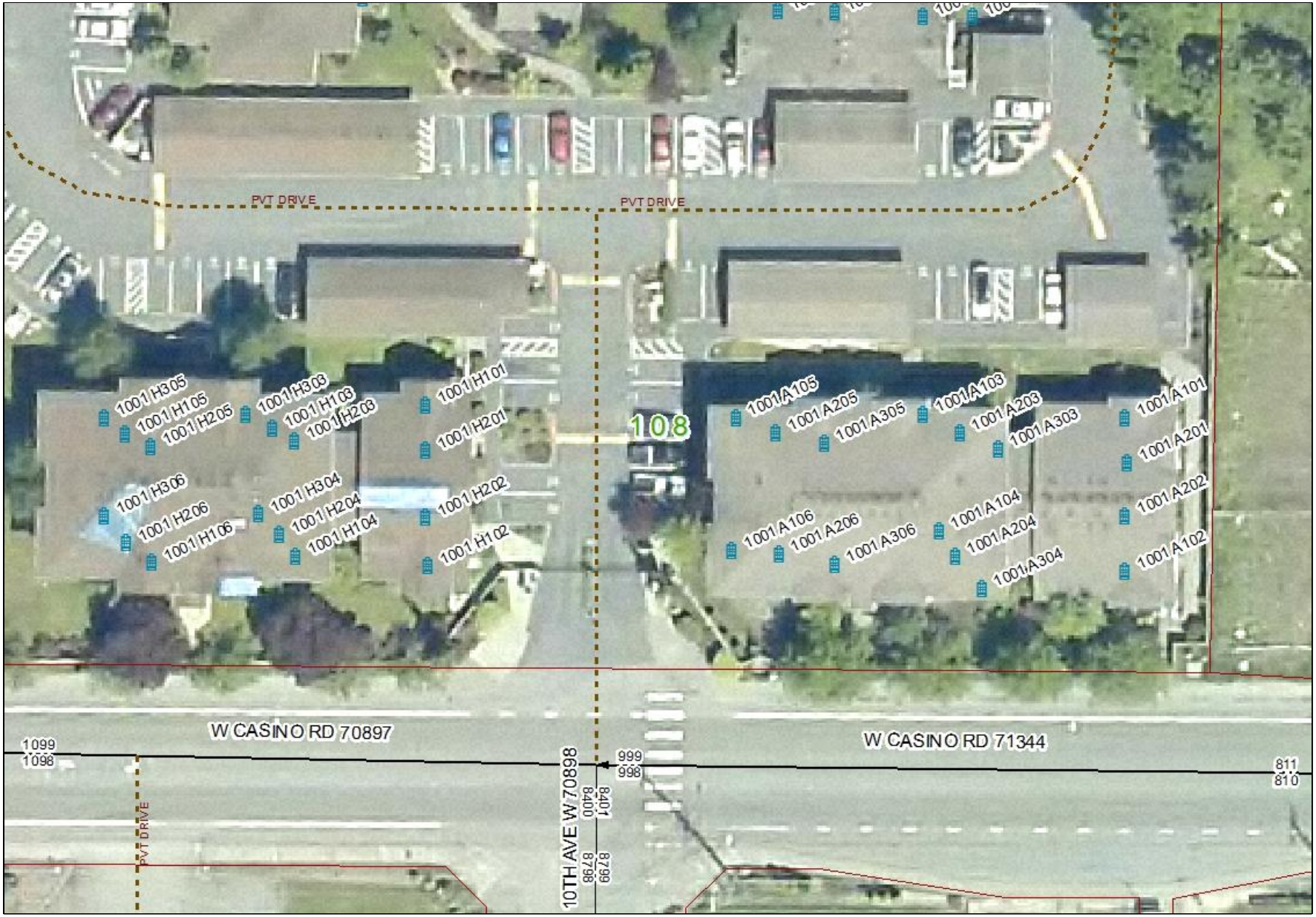
This will work for 9-1-1, address number and suite qualifier



Modular Home Parks

- Mobile home parks provide a particular challenge.
- A single address may not reflect the structures on the parcel
- For a responder to effectively locate these, a “Complete Address” must be tied to each unit, address and space number.

Multi Unit Addresses



Avoid Parity Errors

Avoid Duplicate Address Points

Selected Attributes of AddressPoints

OBJECTID *	UniqueID	JOIN_ID	ADDR_NU	ADD	PR	Pr	NAME	TYPE	SUFF	StreetName	ESN	Community	BLDG	UNIT_	ZIP	PID	SOURCE	EditDate	GDR_EXP_FLAG
24	24	64892	17115				116TH	PL	NE	116TH PL NE	131	ARLINGTON			98223	6279	E911	11/22/2010 3:57:42	DUP
86	86	64892	17115				116TH	PL	NE	116TH PL NE	131	ARLINGTON			98223	6279	E911	11/22/2010 3:57:42	DUP
267	267	59268	9022				84TH	ST	NE	84TH ST NE	136	ARLINGTON			98223	5497	E911	11/22/2010 3:57:42	DUP

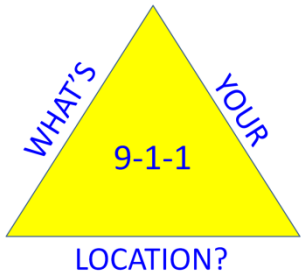
Record: 2 Show: All Selected Records (1524 out of 262748 Selected) Options

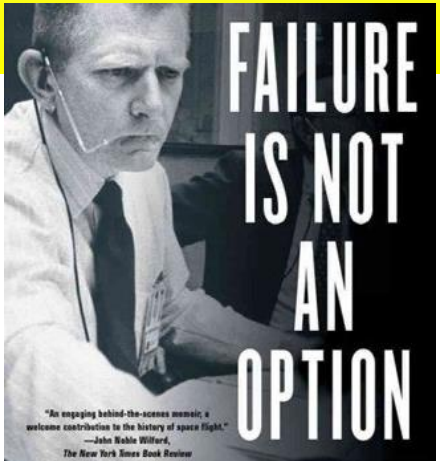
Data Requirements

Public Safety needs and Standards *may* not be met with GIS data from generic sources

Those maintaining GIS should know the needs of Public Safety and 9-1-1 are unique.

Data must be accurate, current, and meet the rigorous demands of Public Safety





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