PORT CLINTON'S GIS: A DISTRIBUTION FOREMAN'S

OTCO Water Distribution Workshop
Tuesday, December 10, 2015
Holiday Inn Worthington, Ohio

Eric Petersen – Water Distribution Foreman



Where the heck is Port Clinton?





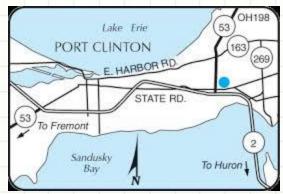






City of Port Clinton Ohio

- Not a wealthy community
 - 2012 Census
 - 6,047: population
 - Average age: 41.5 years
 - Average household income: \$39,716
 - Average home price: \$108,860
 - Average rent: \$697.
- Budget limitation as other cities.





The Foreman's Story

 September 2005 semiskilled laborer in the Cemetery Department

- Meaning <u>all</u> duties assigned!

 During that time the administration was looking to create a Service Department

The Foreman's Story

 2007-2008 obtained Ohio EPA Water Distribution I & II Certification



- June 2009-2014 Service Department Supervisor
- 2014-Present: Mayor brought on an additional on an additional Supervisor. Saw the importance of G.I.S. Reassigned duties & responsibilities.
- Currently Water Distribution Foreman and GIS technician

The Foreman's Story

Official title is Water Distribution Foreman

- Capital Improvements/ Inspector, water sewer projects
- Water compliance, sampling, testing
- Meter system upgrades
- Implementation of Backflow prevention program
- Fire Hydrant Maintenance/replacement

Objective

Show you how a regular worker can not only learn how to spell GIS, but can actually start implementation of a GIS program for his City.



Water Department

1895 Water Treatment Plant Constructed

1999 Closed the 1895 Water Treatment Plant and began purchasing water from Ottawa County

Allowed To Purchase 1.5 MGD From Ottawa County

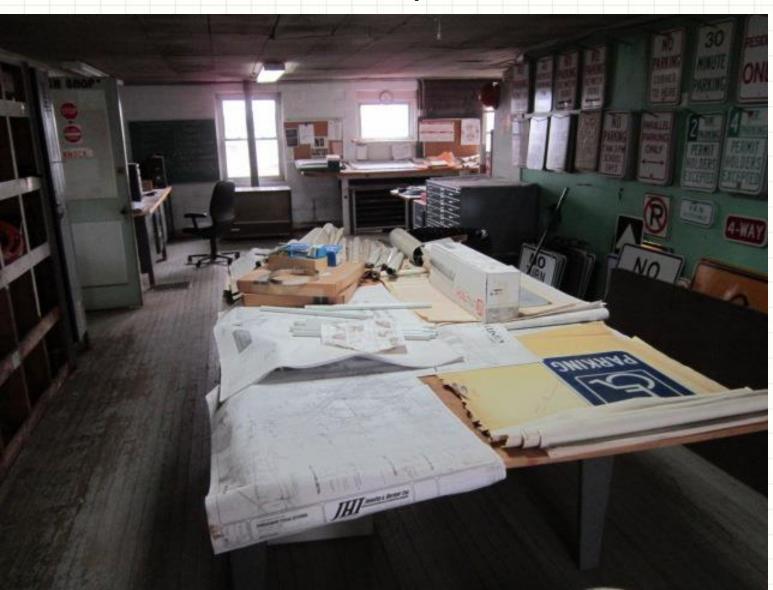
- 3157 Service Connections
- 26 Miles of Distribution
- Operating Budget \$1.9 million/year

Where Is My Office





10



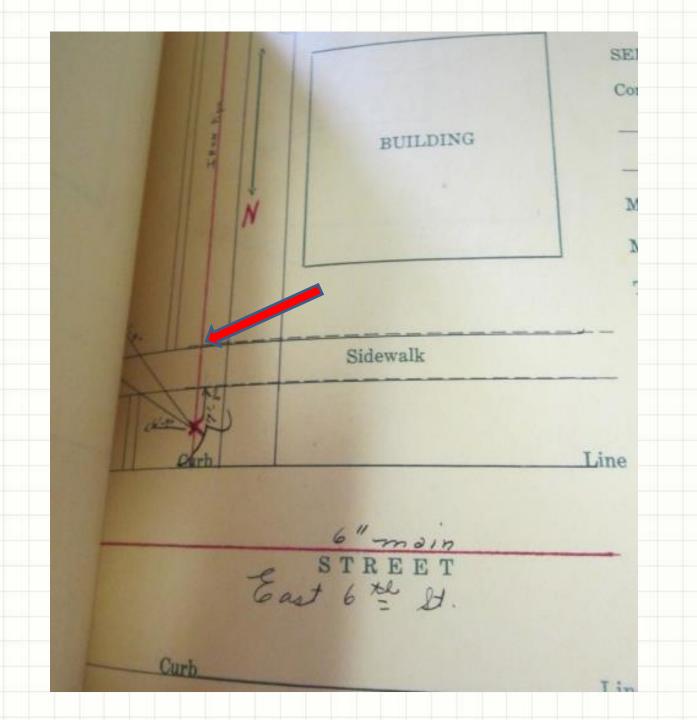




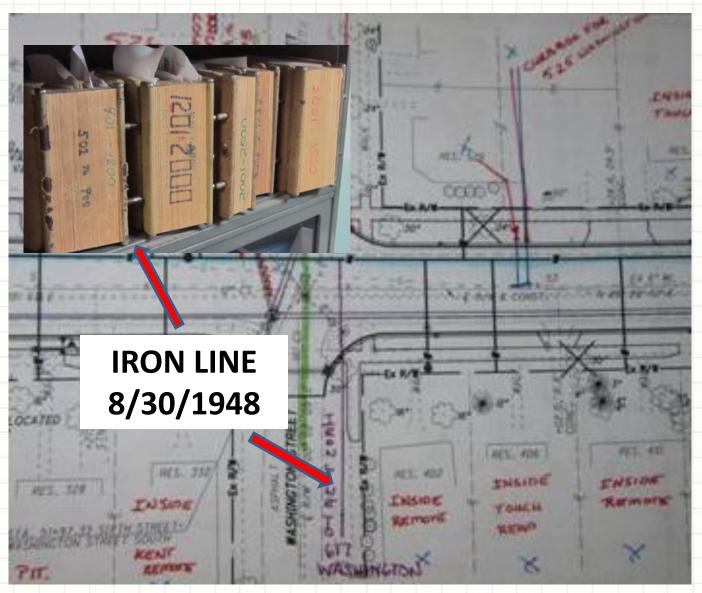




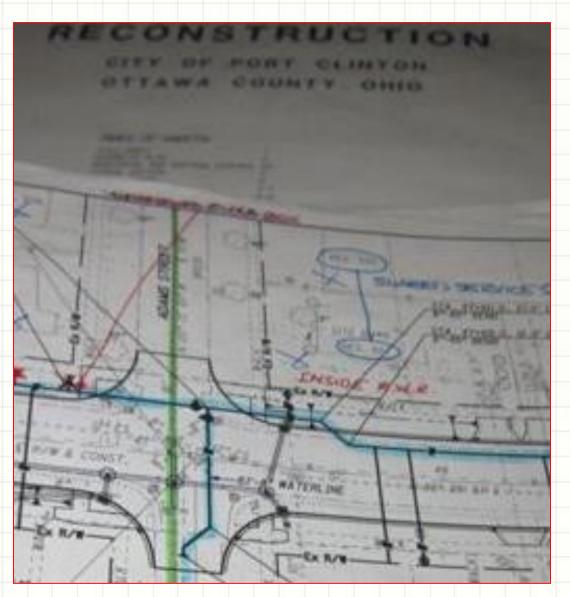


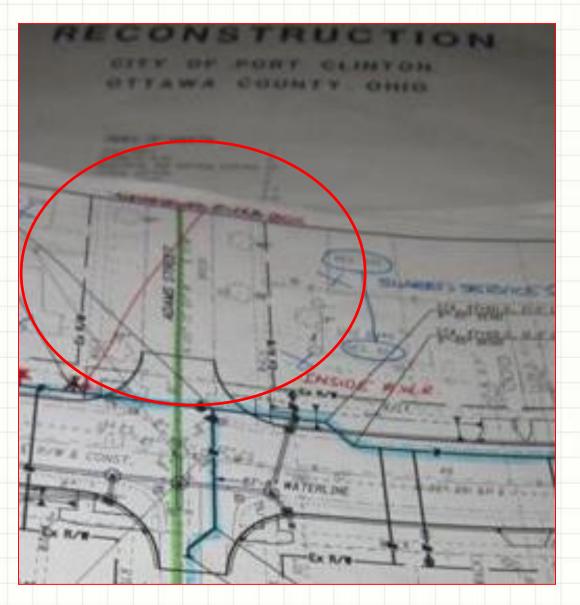


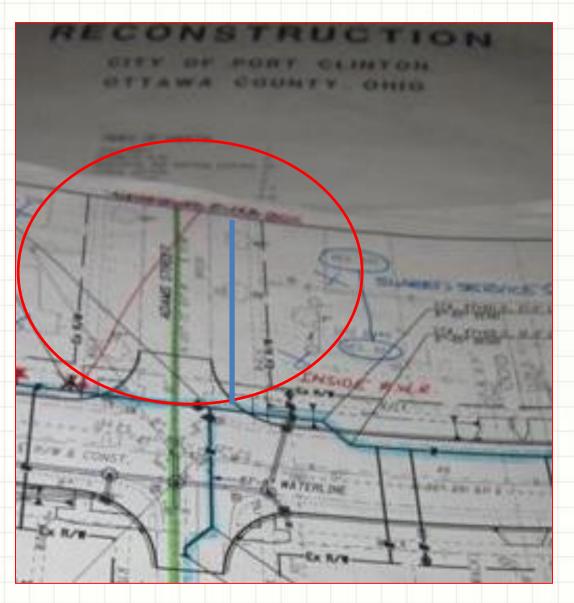
in. copper pipe, Main to curb cock in. copper pipe, Curb cock to meter Date installed Serial 8/0 4559 8/30/48 Size.

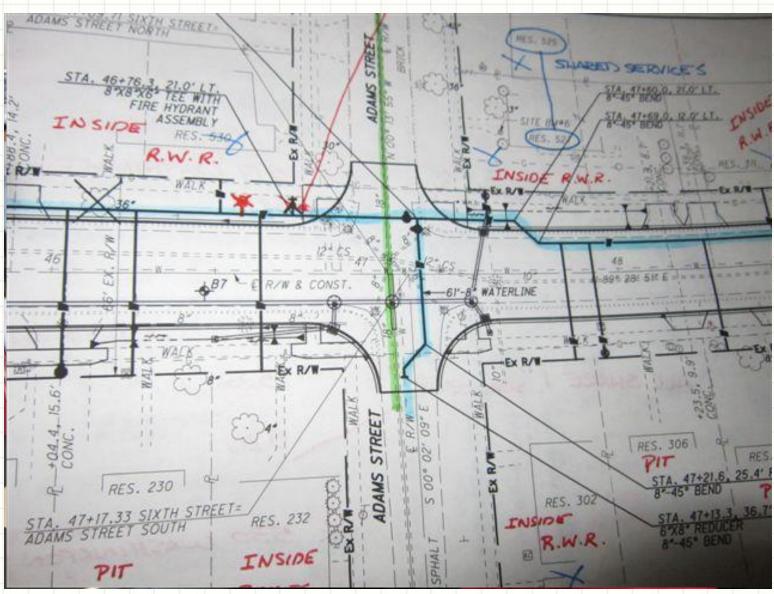












DURING THE 2012 OTCO Water Distribution Workshop

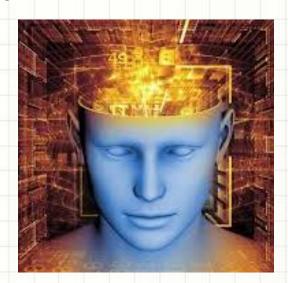


GOT AN IDEA!

TRANSFER



&



TO



CONVINCE MY







TRAINING VIA INTERNET



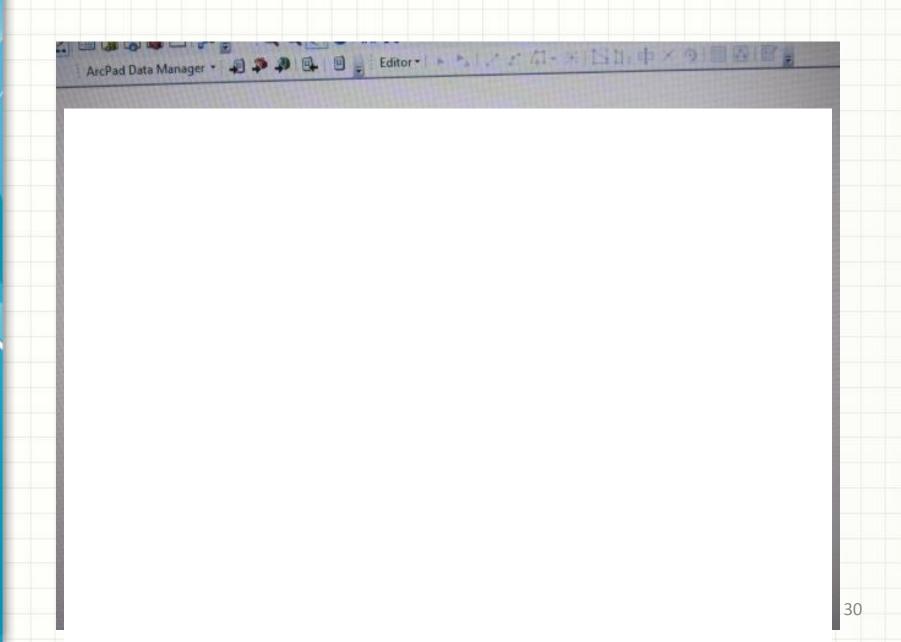
VIA 'GO TO MEETINGS'

TRAINING VIA INTERNET

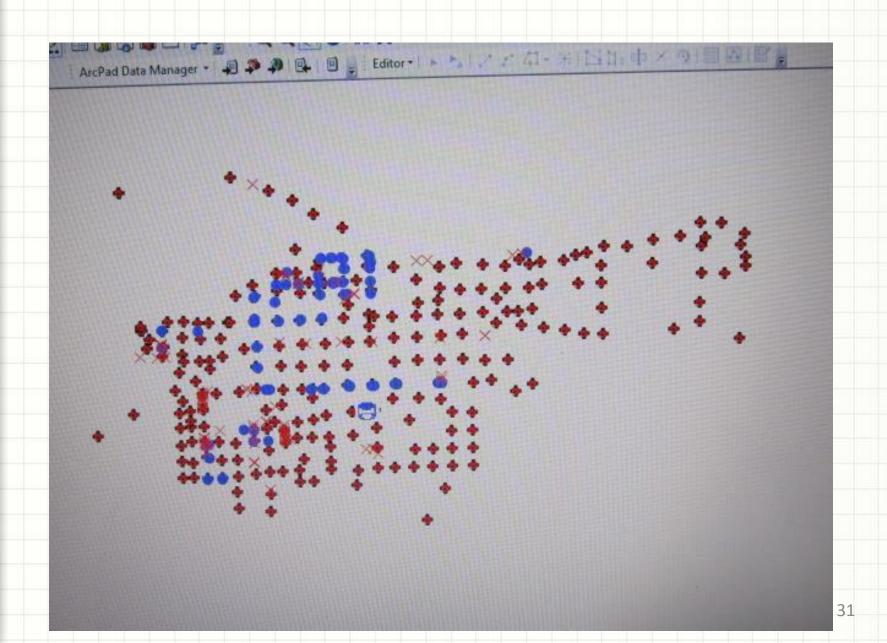


VIA 'GO TO MEETINGS'

INITIAL TRAINING RESULTS



DIGITIZED FIRE HYDRANTS





THE MAYOR/SSD SAID.....





INITIAL TRAINING



INITIAL TRAINING

\$0



GET THE EQUIPMENT!



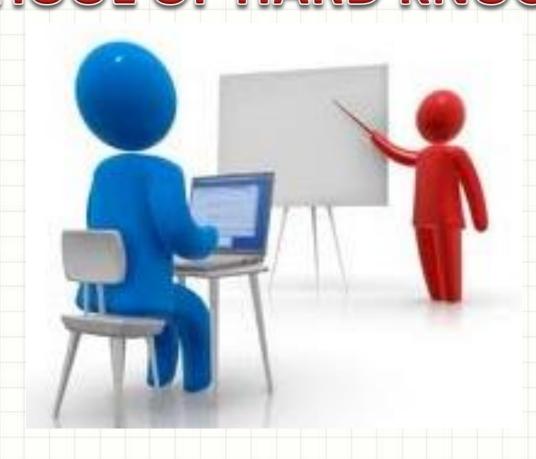


MORE

Training

developing the skills, perience, a employees need to perience improve their performance skills, and abilities, specific

ON-LINE, IN THE FIELD, & SCHOOL OF HARD KNOCKS



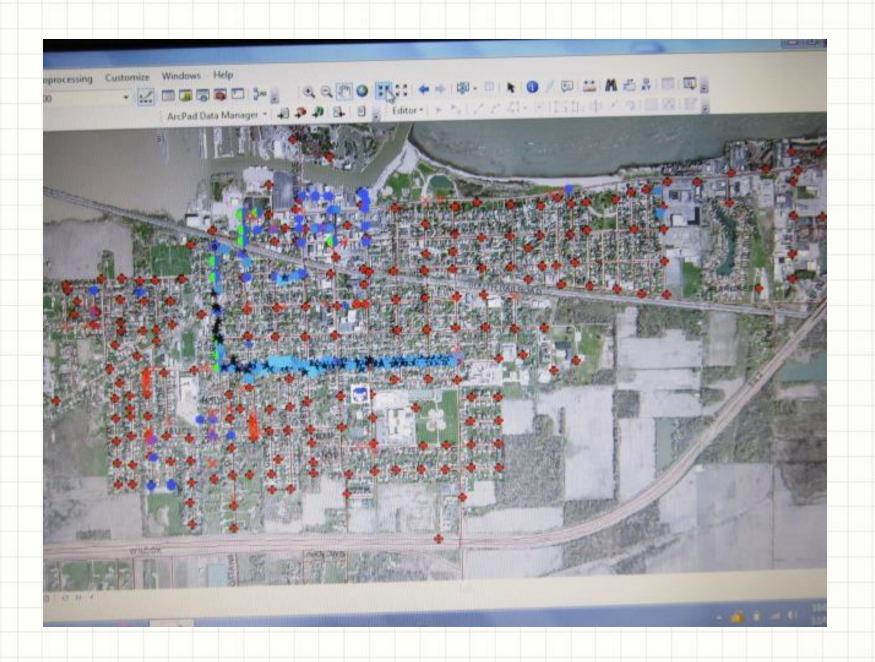












HOW MANY HOURS OF



INITIALLY

HOW MANY HOURS OF



120 HOURS



FOR THE EQUIPMENT AND SOFTWARE



FOR THE EQUIPMENT AND SOFTWARE

\$20,330

(INCLUDED SET-UP AND FIELD TRAINING FROM COMPANY REP)

FIELD EQUIMENT

- 1) GEO XH Survey Grade Sub-Foot Handheld
- 2) 2 year Warrently
- 3) Trimble Arcpad Version 6.0.0
- 4) GPS Corrects Ext ESRI Arcpad Software
- 5) Zephyr Model Antenna
- 6) Pole with Cable \$10,495

SOFTWARE

1) Arc GIS Advance Desktop (Arc Info)	\$7,295
2) Arc Publisher	\$2,040

OTHER

1) Laptop Computer		\$500
	TOTAL\$	\$20,330



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Shared Expense

GENERAL FUND 54% (\$10,930)

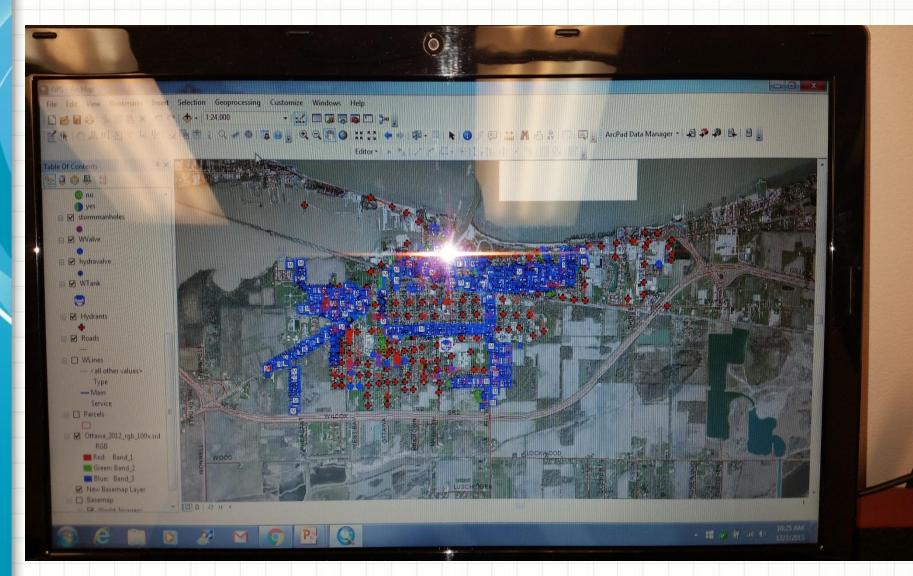
> Police, Fire, Cemetery

STREET DEPT 15% \$3,200 **WATER DEPT** 16% (\$3,200)**SEWER DEPT** 15% (\$3,000)

WAS IT SUCCESSFUL?



YES....even a Novice Can Use It!

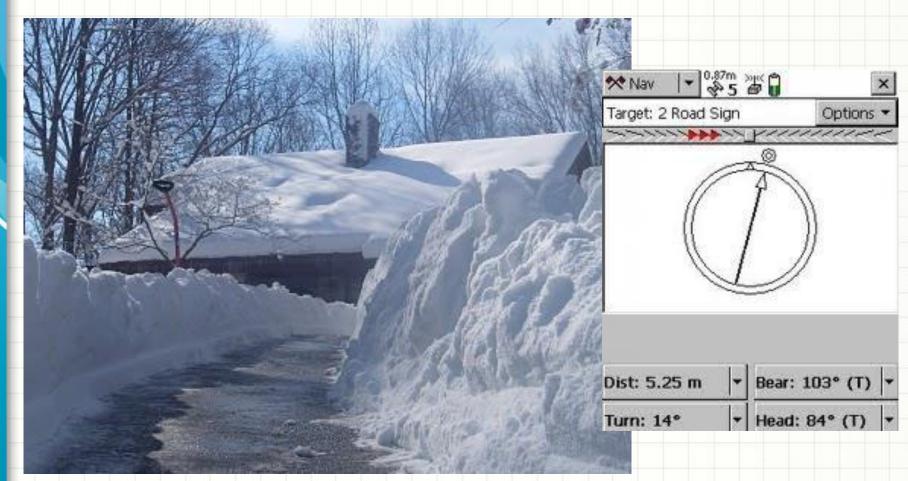


HOW ACCURATE IS THE DATA?

- CITY OF PORT CLINTON'S DATA HAS A 4" ACCURACY
- HOW IMPORTANT IS ACCURACY.....?

Navigate Back to Assets

Where Is That Valve?.....



What tool would you use?



What direction to go next?

- City will continue to finish collecting local assets, i.e. valves, curbbox locations sewer and storm manholes.
- Publishing data for residents/nonresidents by expanding the capibility of the City's website.
 For example: zoning maps, voting results, council wards, leaf pick up data to name a few
- Sharing City data with Ottawa County.
- Expanding to Arc GIS On-Line so other departments fire, water, sewer dept can use data collected

