Empowering Field Crews by Leveraging ArcGIS Server

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Gwinnett County Department of Water Resources

Gwinnett County

3,710 miles of water pipe
42,626 Hydrants
82,025 Valves

Gwinnett County

2,711 miles of sewer
273 miles of FM
76,683 MHs
222 Pump Stations

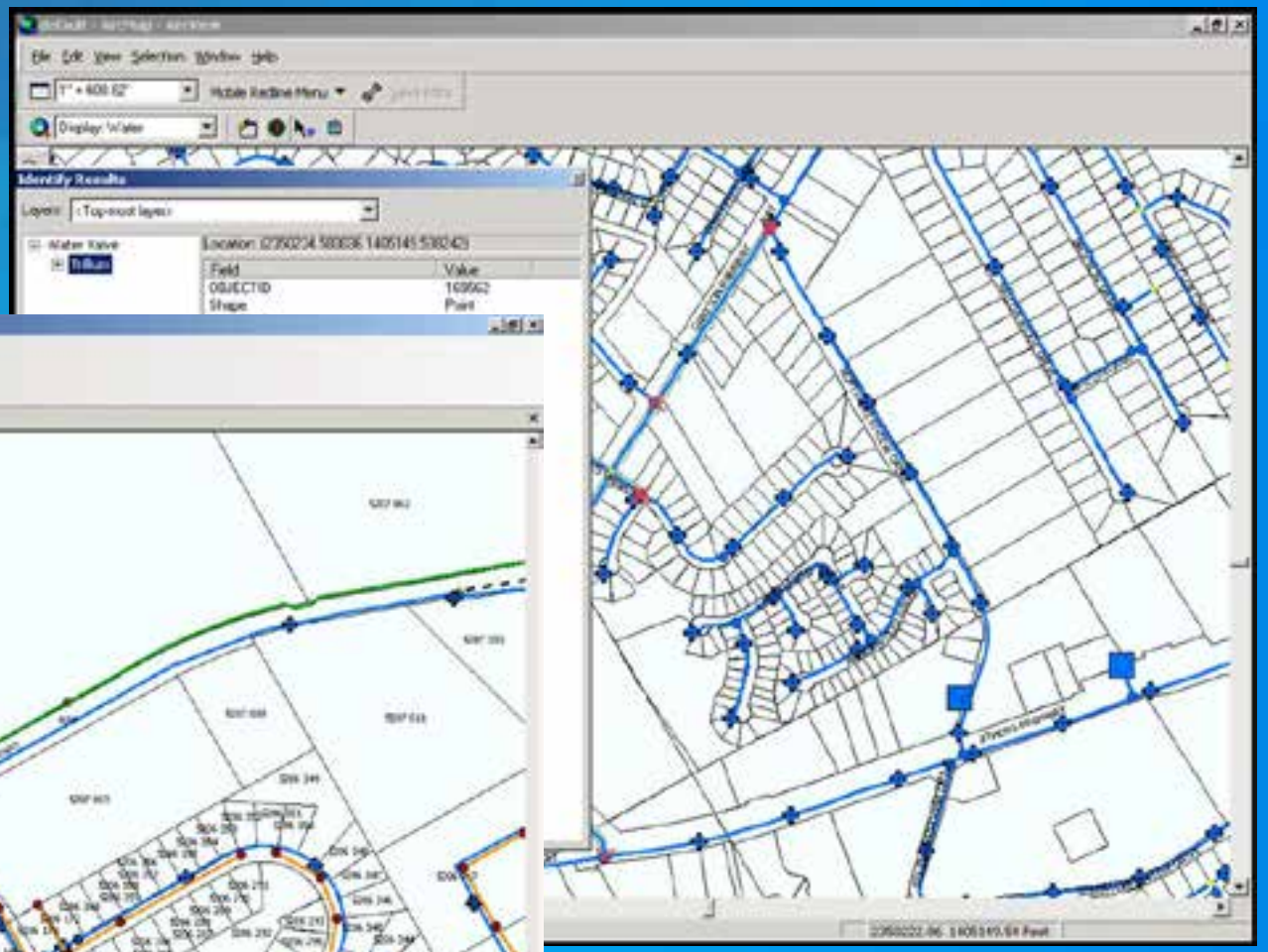
Our field crews stay busy. An average day can have them responding to over 100 calls ranging from :

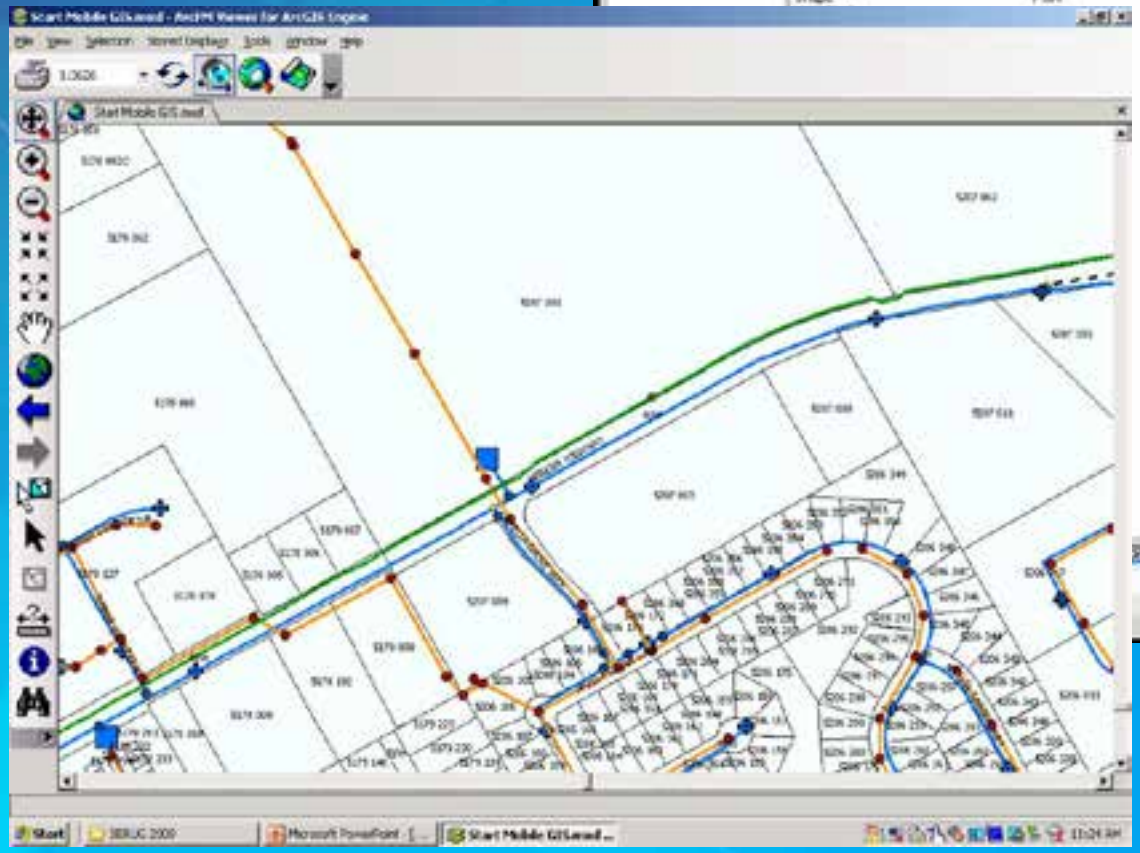
-Water Leaks

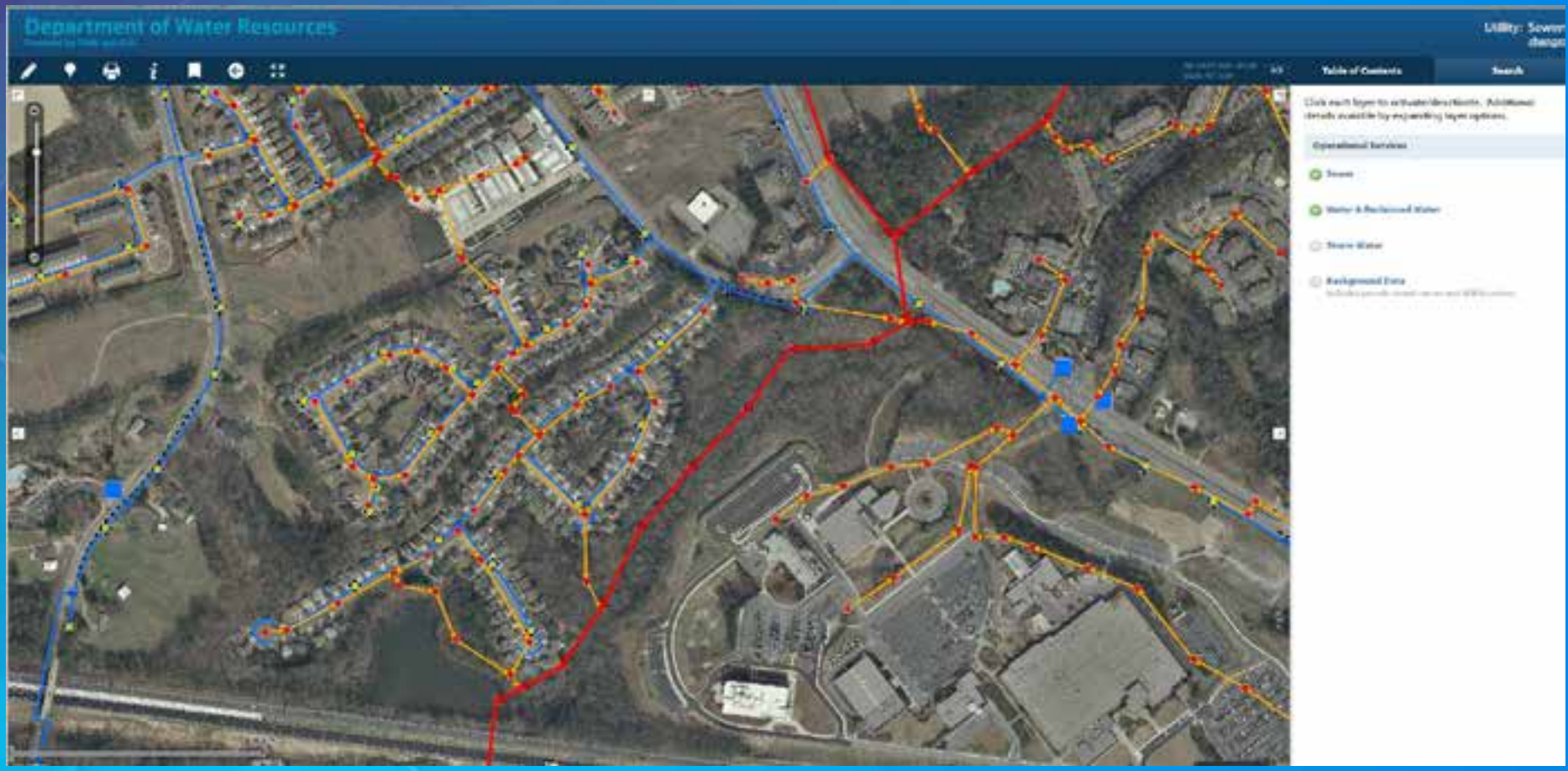
-Main Breaks

-Sewer Overflows

Progression of Field GIS at Gwinnett County DWR






Department of Water Resources
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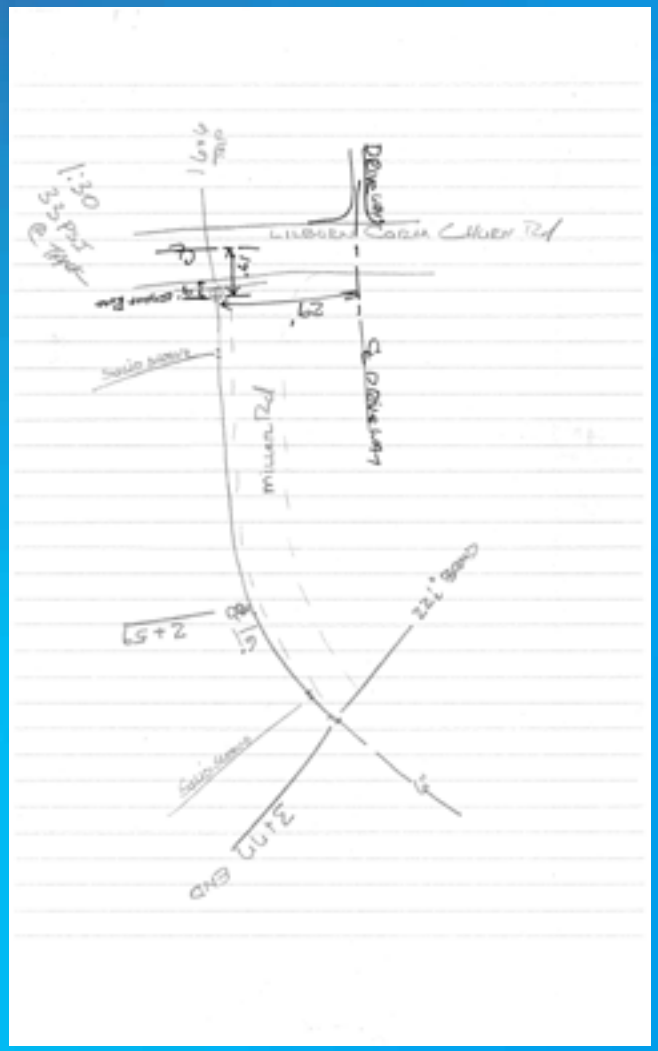
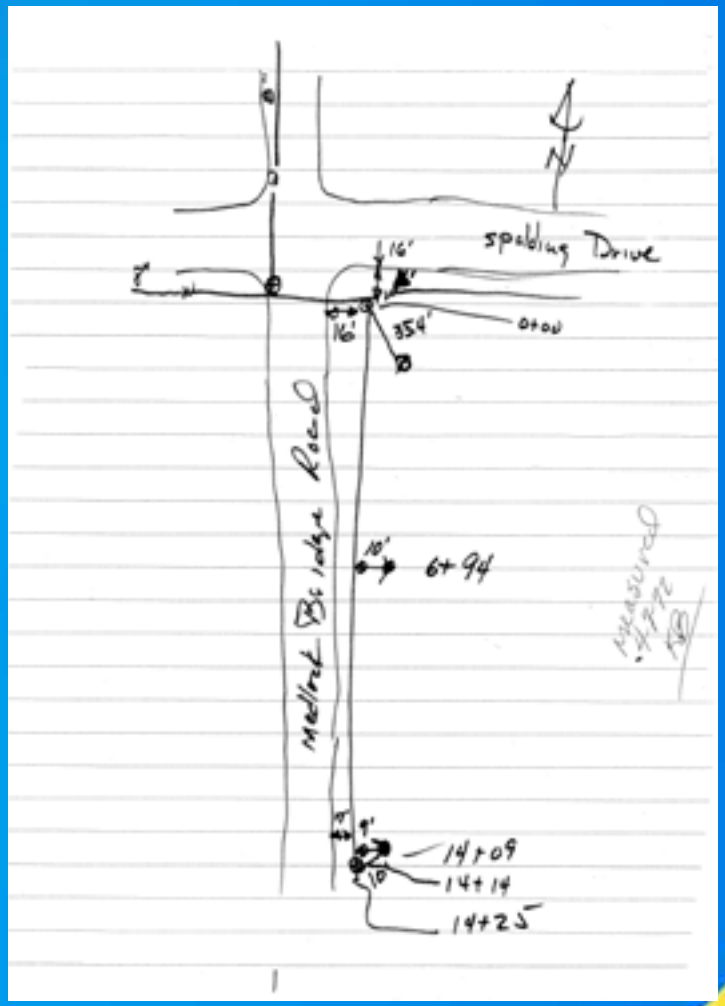
What the field crews were seeing in the field did not match what was in GIS. This could be due to…

No As-Builts

Really, Really BAD As-Builts

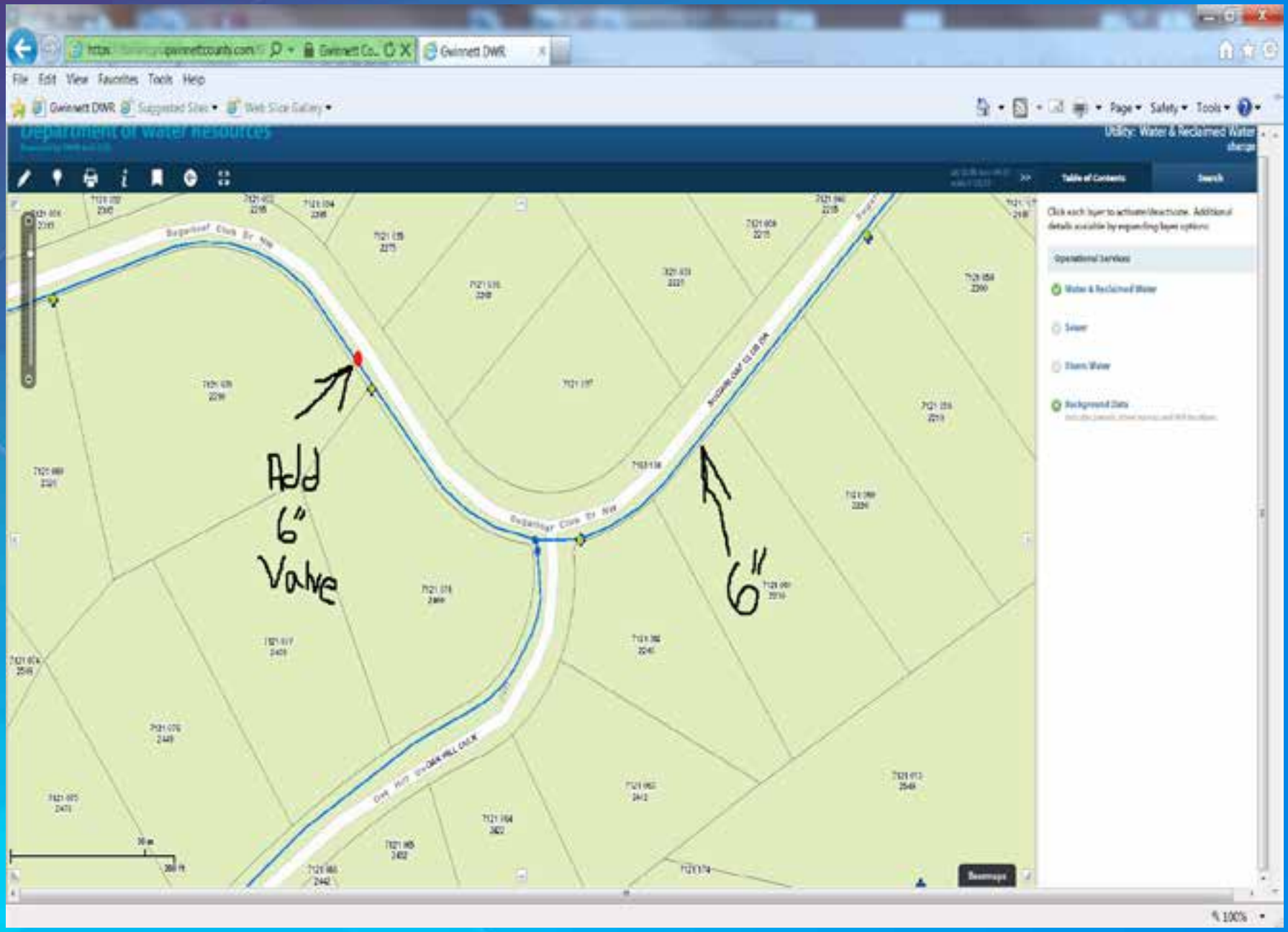




Bad Mappers

Field staff would line up daily to have corrections made to GIS

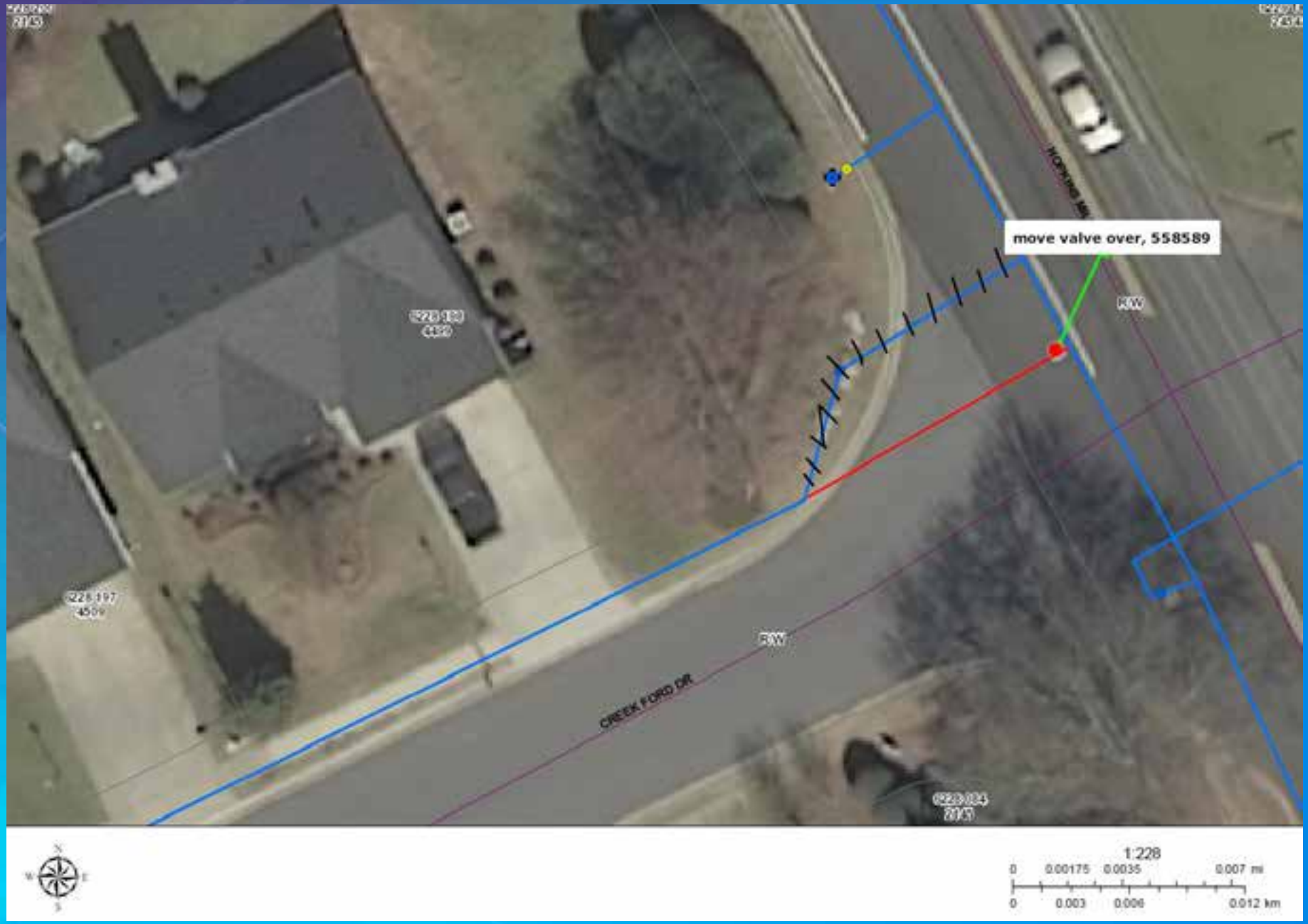
One day, we received an email from Darren!


Add
6"
Valve
6"

This gave us an idea!

add 10" tap valve
CORLEY RD
R/W
add 10" main
add 10" detector check vault
1:303
0
0.0025
0.005
0.01 mi
0
0.004
0.008
0.016 km

FID# 460617 is a 6" Stub Valve
Delete this part of water main
Add 6" Hydrant Valve
Add 3-way Fire Hydrant
Rocky Hill Dr
ROCKY HILL DR
Lanford Dr SW
LANFORD DR
6094 123
5239
6094 321
5259
6094 322
5279
6094 326
5295
6094 101
5228
6094 017
5238
6094 273
1026
6094 324
6094 098
1043
6094 064
1036
6094 268
1022
6094 270
1035
6094 269
1032
6094 065
1046
1026 Lanford Drive
1:1,029
0 0.0075 0.015 0.03 mi
0 0.0125 0.025 0.05 km


move valve over, 558589
CREEK FORD DR
R/W
R/W
1:228
0 0.00175 0.0035 0.007 mi
0 0.003 0.006 0.012 km

Need FID# for 8" Tapping Valve - back tap
RW
Need FID# for 8" Main
Need FID# for 6" Hydrant Valve
Need FID# for Fire Hydrant - 3 way
Need FID# for 8" x 8" x 6" Hydrant Tee
HARBINS RD
Harbins Road @ Jona Trail
1:228
0 0.00175 0.0035 0.007 mi
0 0.003 0.006 0.012 km

Be nice to the field personnel,
they just might make your job easier!

Questions?