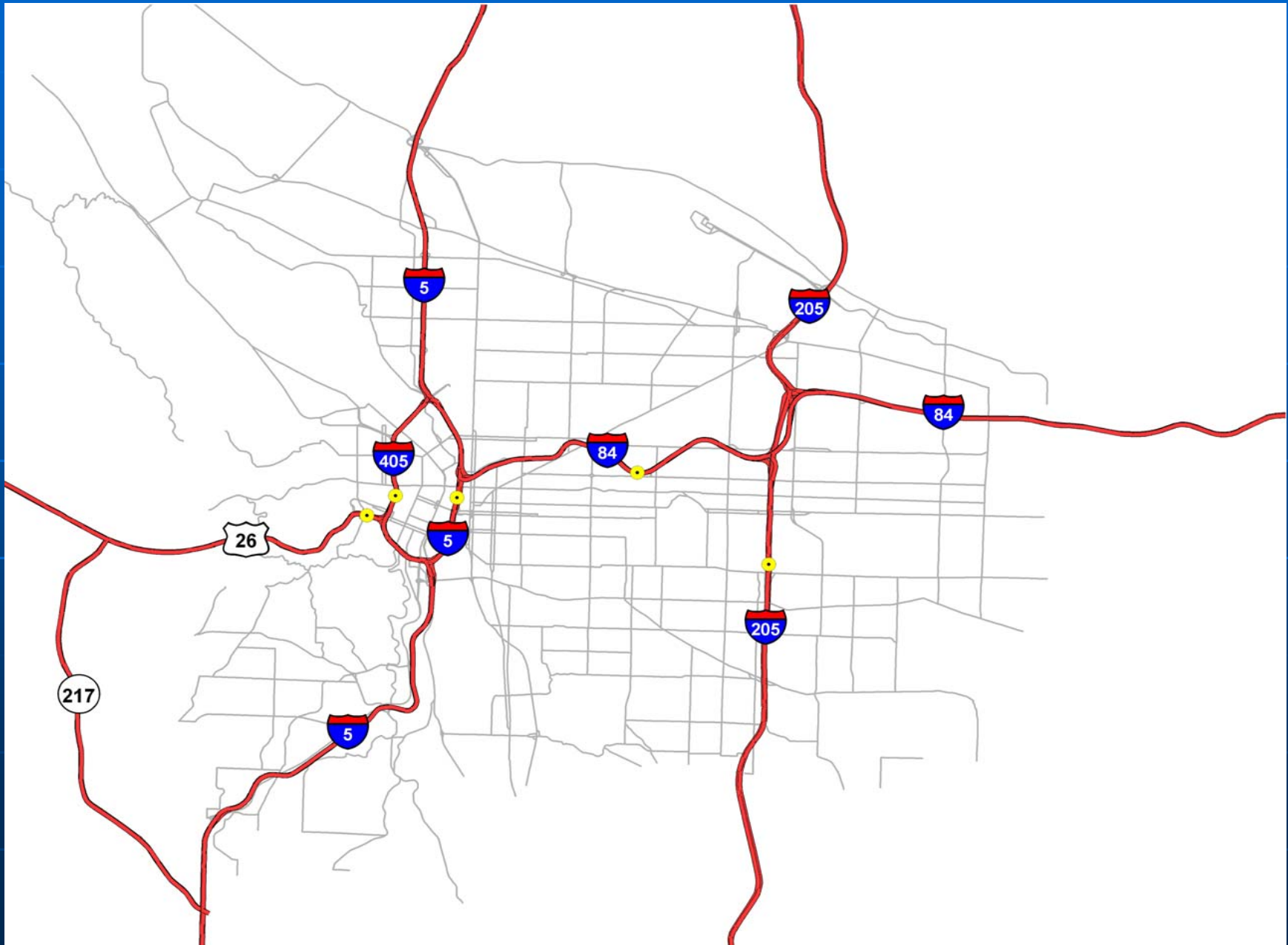# Portland Police Bureau Freeway Mapping Project

Christy Khalifa

Background

- Since 1984, all incidents mapped to single points
  - Useless for crime analysis and mapping
- Information Technology, Traffic, Records, Planning and Support
  - In car video camera
  - ArcGIS used to determine geographic properties of landmarks
  - ITD loaded the data and modified the PPDS programs

Before

After

ArcMap Method

- Obtaining x,y coordinates for each landmark plotting points on map
- Creating a new shapefile for the point data
- Using spatial joining to create geographic dataset

PPDS New Address Support for Highways/Freeways

- Allows entry of highway/freeways locations in 4 formats:
    - Exit #
    - On/Off Ramps
    - Cross-streets
    - MP to the .5 mile
- Allows inquiry of highway/freeway locations by geography
    - Precinct
    - District
    - Grid
- Designed to allow searches on freeway +/- a number of miles.

PPDS Main Menu

PPDS Address Search Screen

PPDS Address Search Screen – Select Landmark Pull-Down

Landmark Pull-Down for Freeway/Highway Selection

List of Qualifiers for the select Highway and Direction

Five types of Highway/Freeway Qualifiers:
- **AT** - meaning 'at' a cross-street location
- **MP** - for a Milepost location
- **EXIT** – Exit #
- **ON** – On-Ramps; entering freeway FROM a location
- **OFF** – Off-Ramps; exiting freeway TO a location

List of Qualifiers for the select Highway and Direction

Five types of Highway/Freeway Qualifiers:

AT - meaning 'at' a cross-street location

MP - for a Milepost location

EXIT – Exit #

ON – On-Ramps; entering freeway FROM a location

OFF – Off-Ramps; exiting freeway TO a location

PPDS Address Search Screen – Select Highway/Qualifier

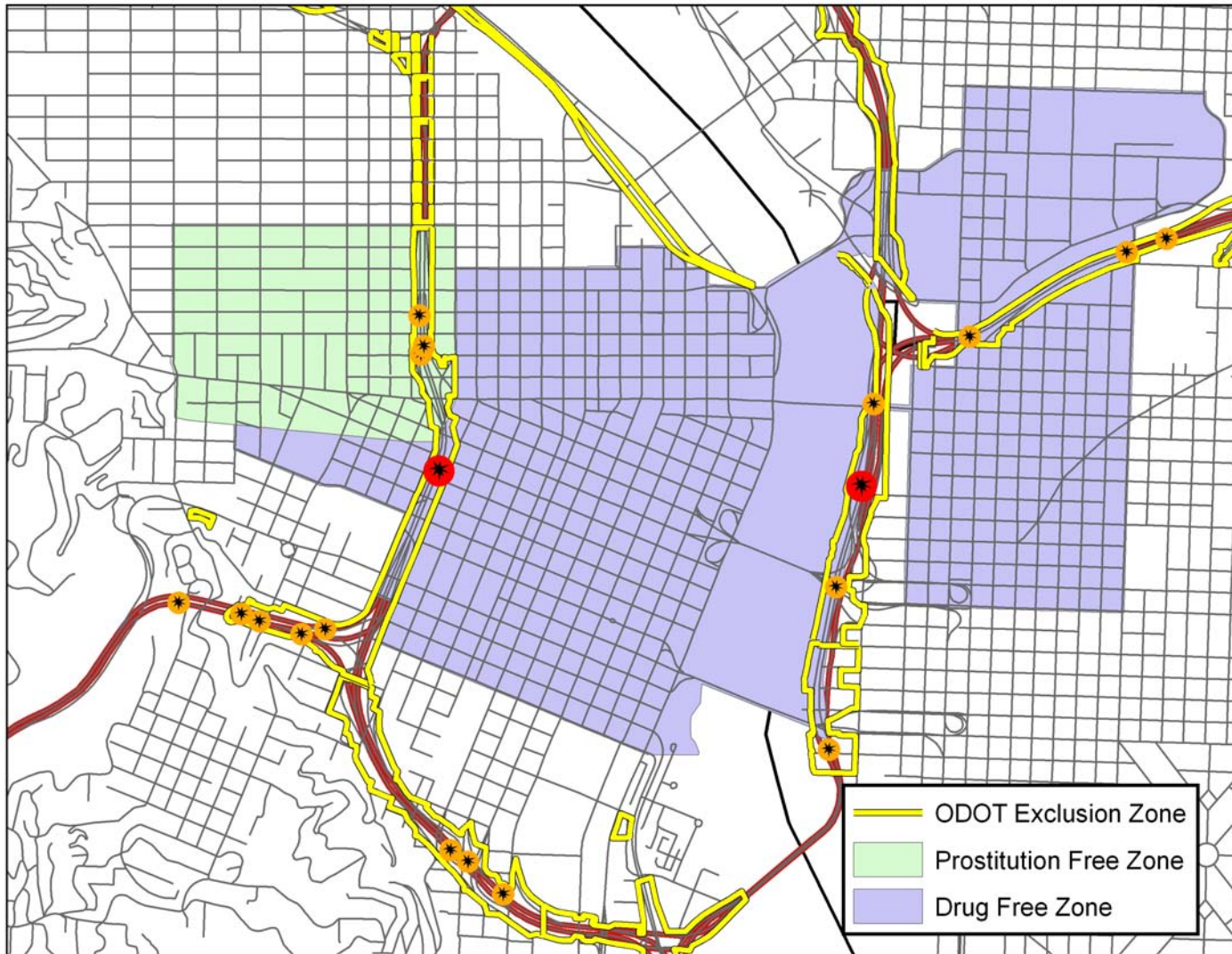# Access Database with Freeway/Highway Reference Info

What is needed to add Highways/Freeways for other agencies

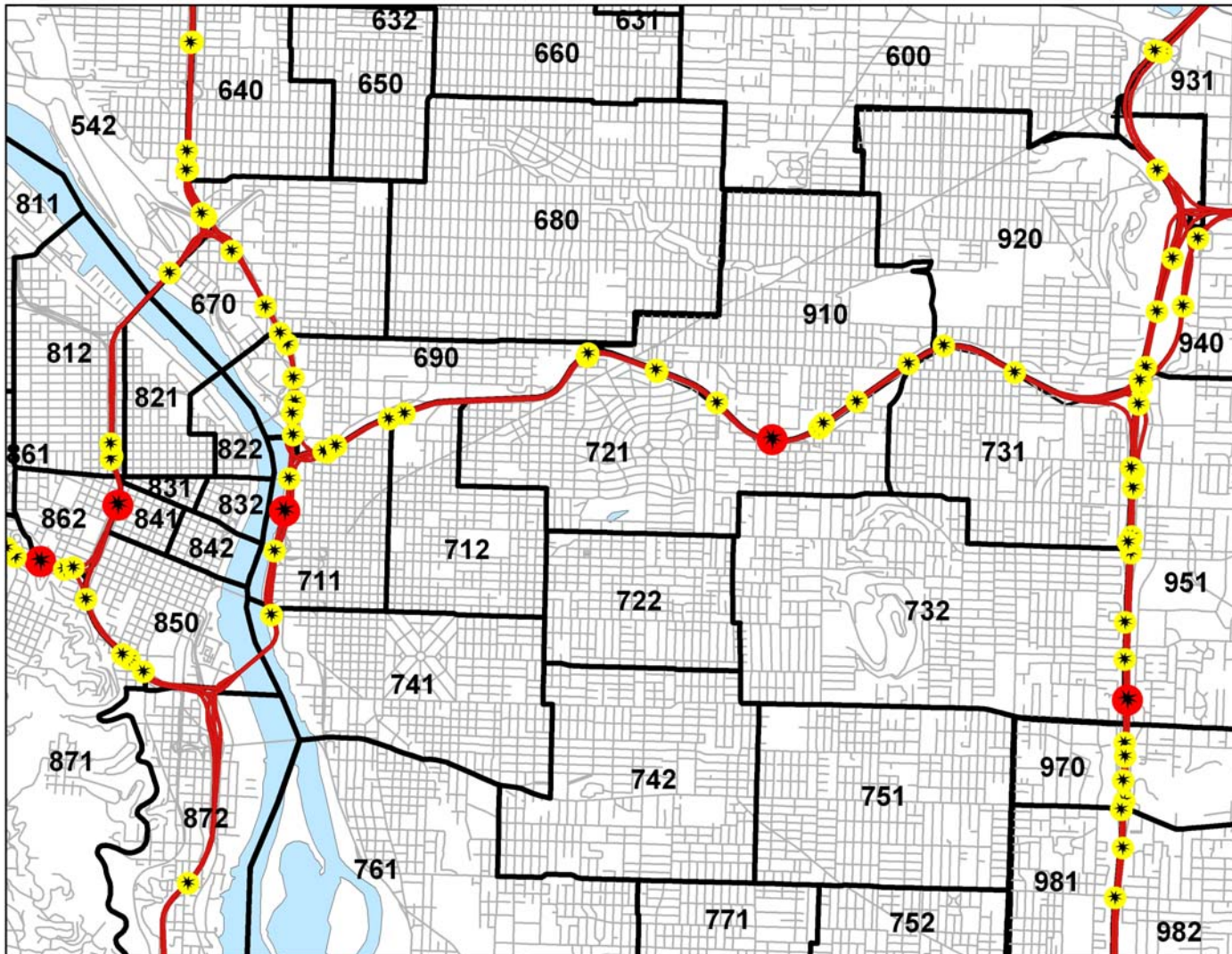Agency will need to:

- Identify all Exits, on/off ramps, cross-streets (including pedestrian overpasses), and Mileposts to the .5 mile

- Provide state-plane x/y coordinates for each point

- Determine the exact milepost for each point

- Determine the geographic properties of each point
  - Precinct, District, Grid, etc

This information should be provided to PPB ITD as an electronic spreadsheet.

Improvements to Existing Reports

District Offense Counts

Neighborhood Offense Counts

Questions?

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