

Wireless Camera Network Project



Greensboro Police Department

Project Goals

- ❑ **City-wide** wireless video surveillance camera networks for local government agencies...**police**, emergency management, public housing & private-sector
 - ❑ Property-wide **wireless video camera & “Free WiFi”** systems for parks, apartments, campuses, airports, marinas, commercial centers and other widespread venues
 - ❑ **Wireless cameras** – IP-based, Pan/Tilt/Zoom (PTZ) & Megapixel surveillance cameras (remotely-controllable)
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Wireless Advantage

- ❑ **Wireless Access-Control** – IP-based, access control integrated with the VMS software (remotely controllable)
- ❑ **Video Command-Posts** – establishes a high-speed WiFi perimeter for in-car laptops to remotely-control wireless PTZ cameras inside schools or banks during a stand-off
- ❑ **“Police Hotspots”** enable officers from in-car laptops & hand-held devices to view, playback & manually remote-control any WildFire wireless camera or NVR @ 30 (fps)
- ❑ **911 Video Call Boxes** wirelessly connect call box and PTZ camera to 911 operator via two-way audio and high-quality video (@ 30 fps)

Project Overview

- ▶ Wireless video camera network with an initial deployment of twenty-one (21) wireless cameras (as shown in the following slides).
 - Twelve (12) wireless 1.3-Megapixel, Infrared (IR), IP-based Pan/Tilt/Zoom (PTZ) "Patrolling" cameras throughout the downtown
 - Three (3) PTZs located near railway crossings
 - Four (4) additional wireless outdoor PTZ cameras and two (2) wireless 2-Megapixel, Infrared (IR), fixed dome cameras for Police Headquarters

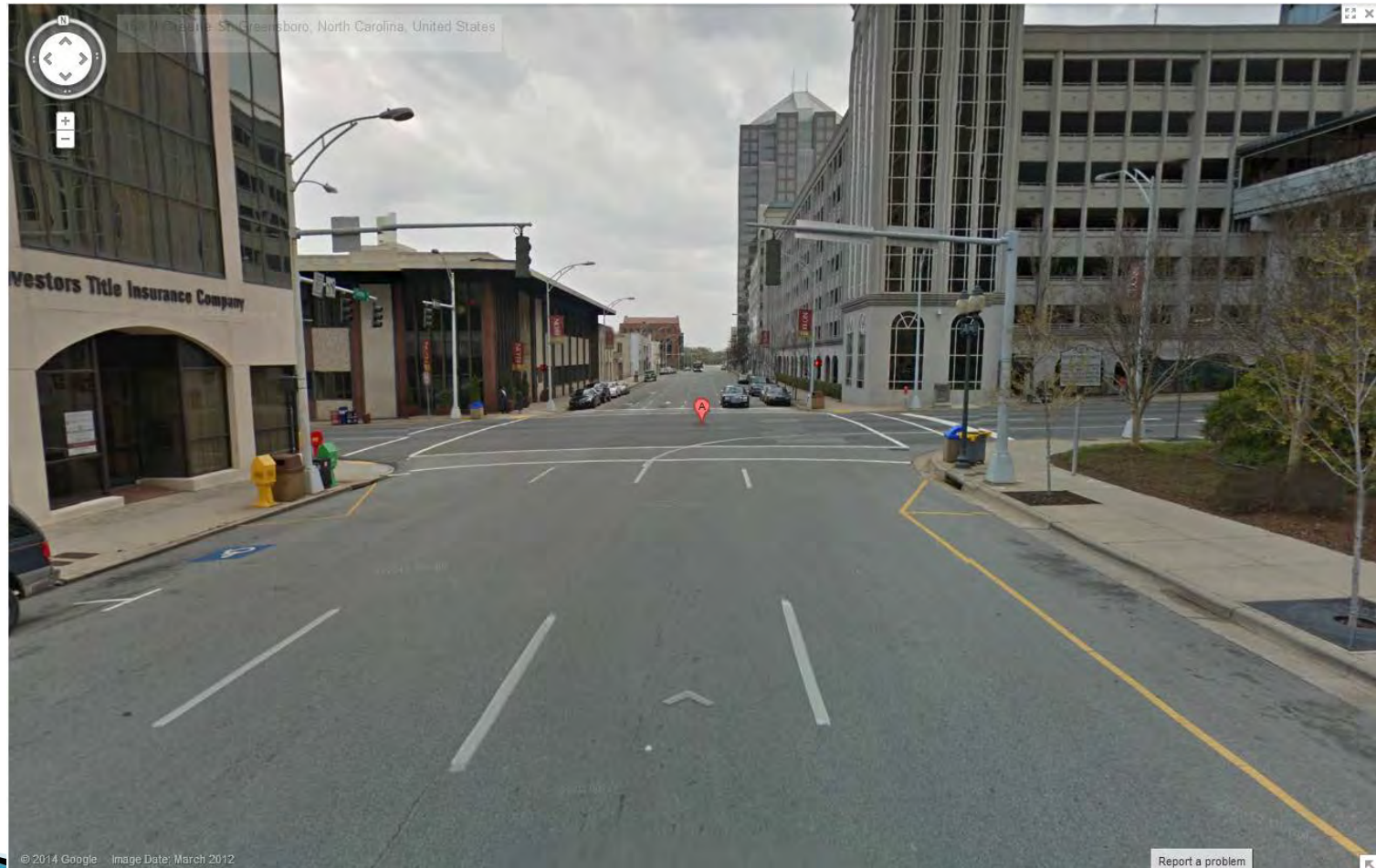
Downtown Greensboro – North Camera Views



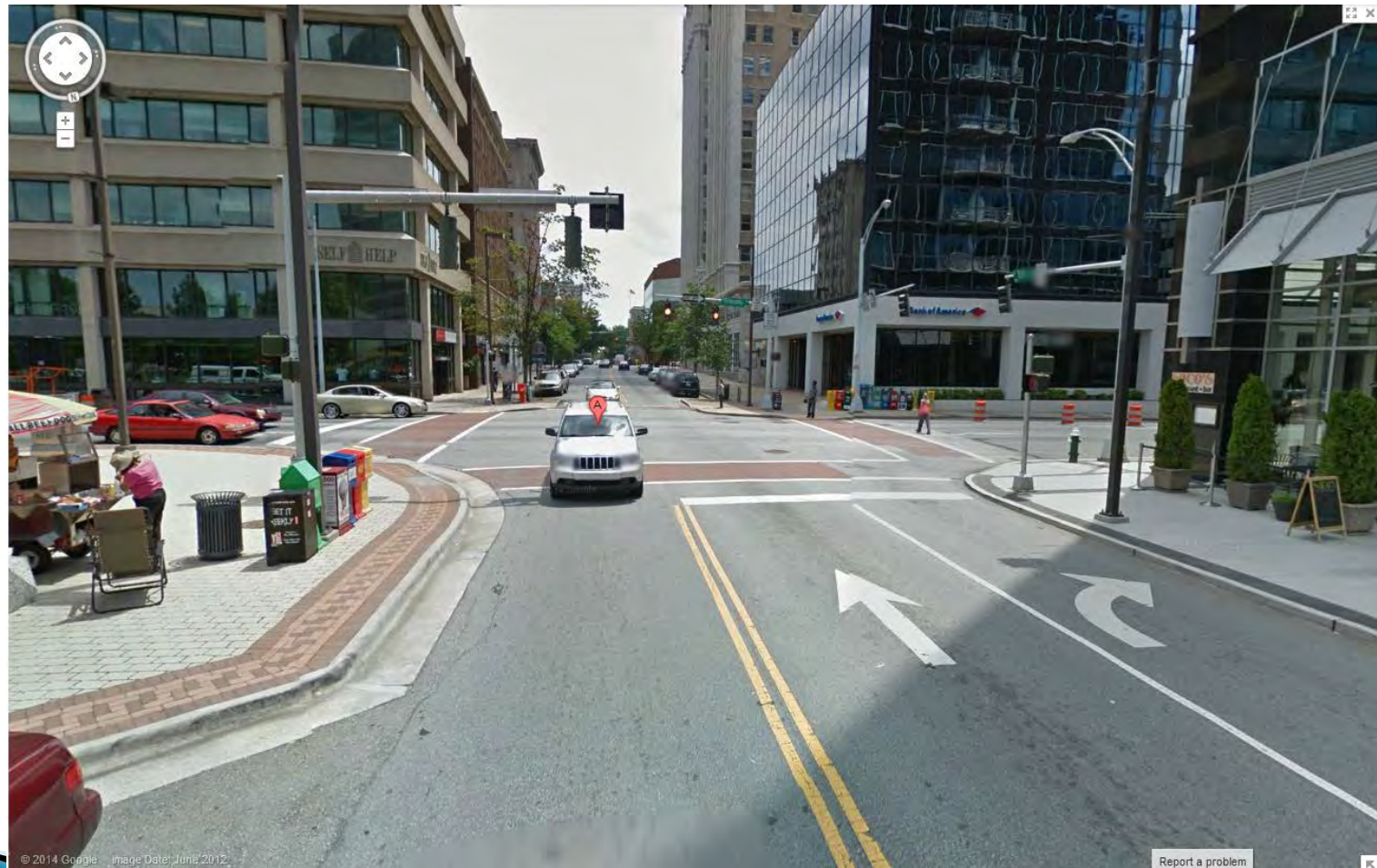
Greene St. & Market St. #1



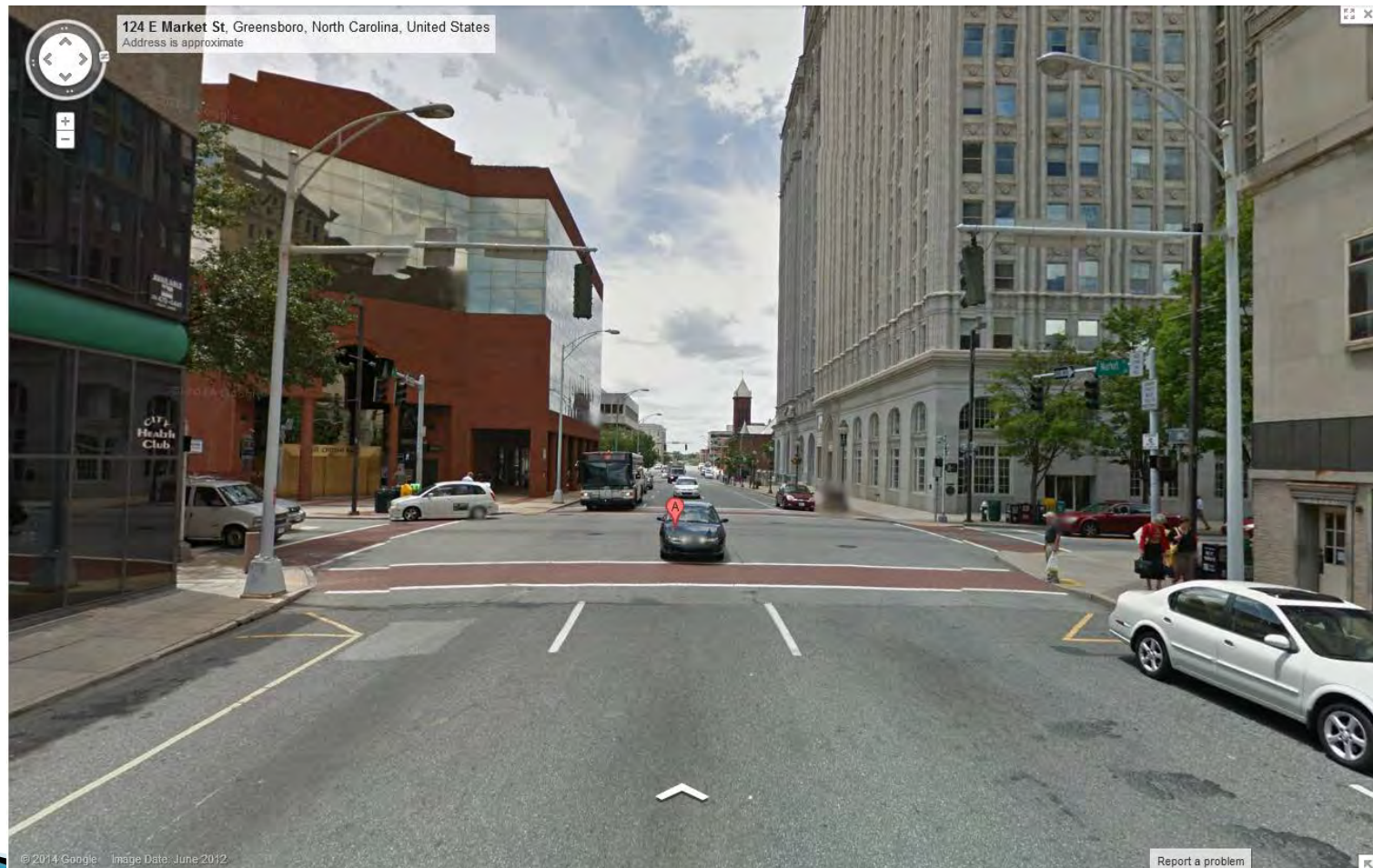
Greene St. & Friendly Ave. #2



Friendly Ave. & Elm St. #3



Market St. & Elm St. #4



Elm St. & February One Pl. #5



Downtown Greensboro – South Camera Views



Elm St. & Washington St. #6



Elm St. & McGee St. #7



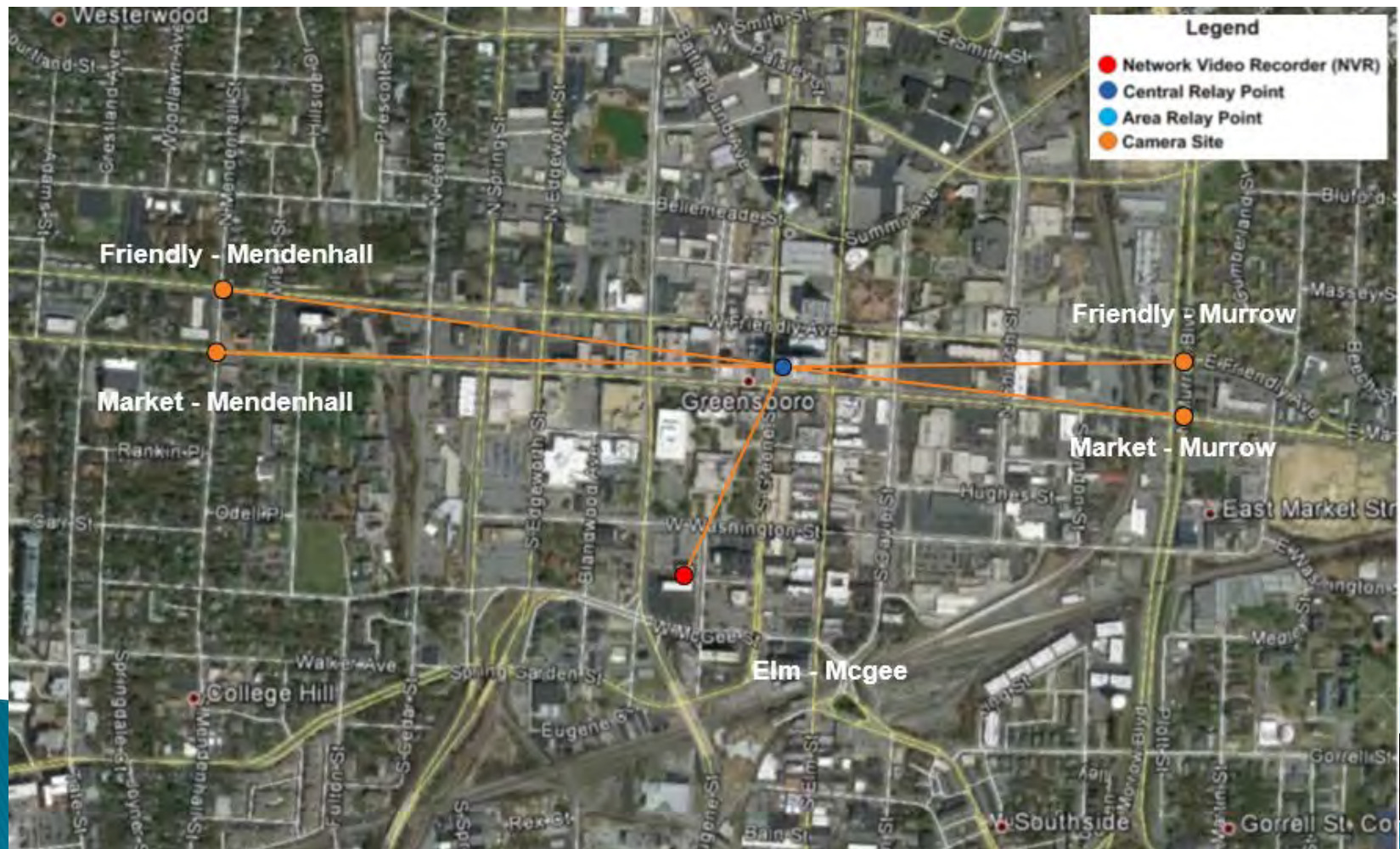
Downtown Greensboro – South Camera View



Elm St. & Lewis St. #8



City-Wide Wireless Camera Network Layout Intersection Addition



Market St. & Mendenhall St. #9



Friendly Ave. & Mendenhall St. #10



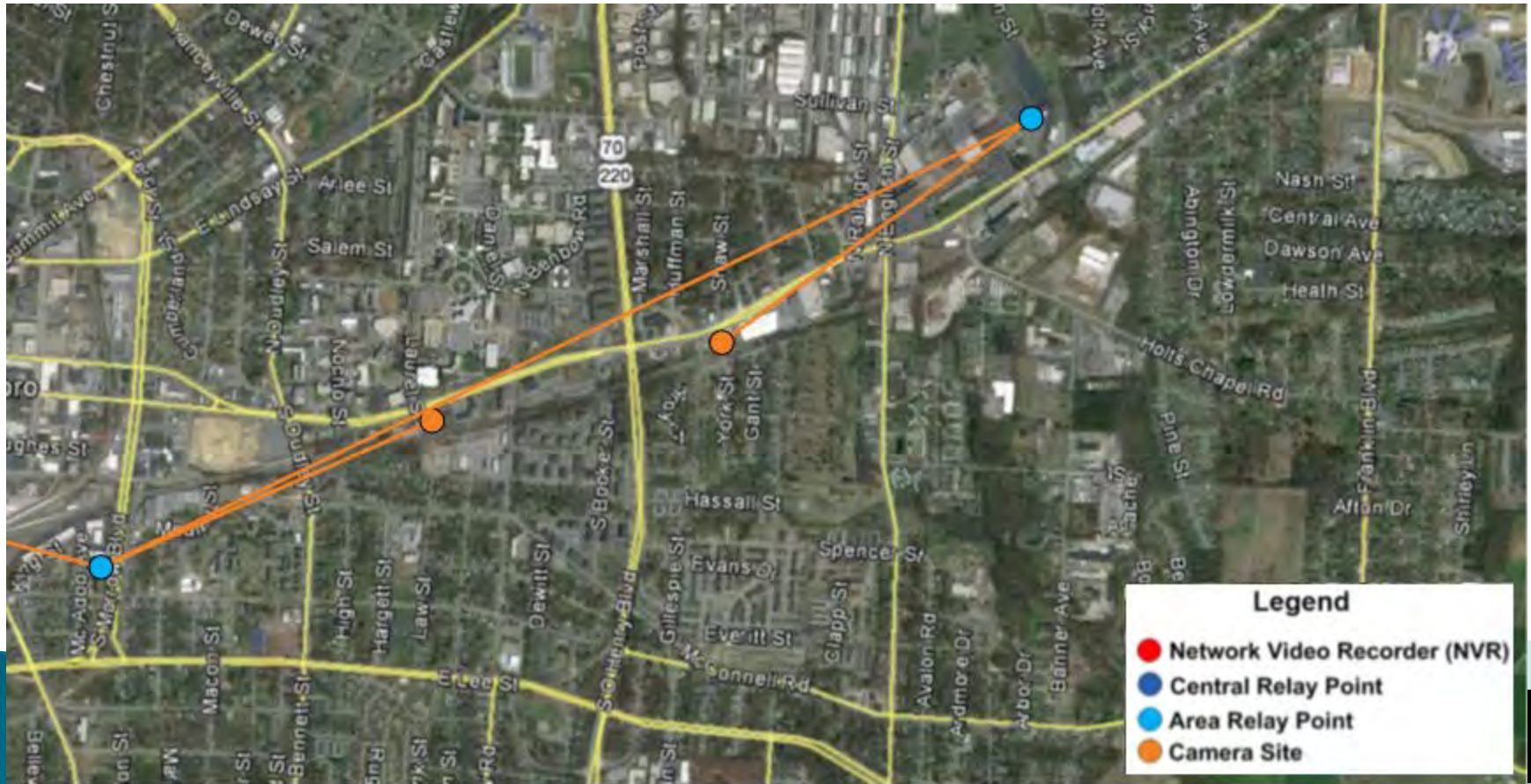
Market St. & Murrow Blvd. #1 1



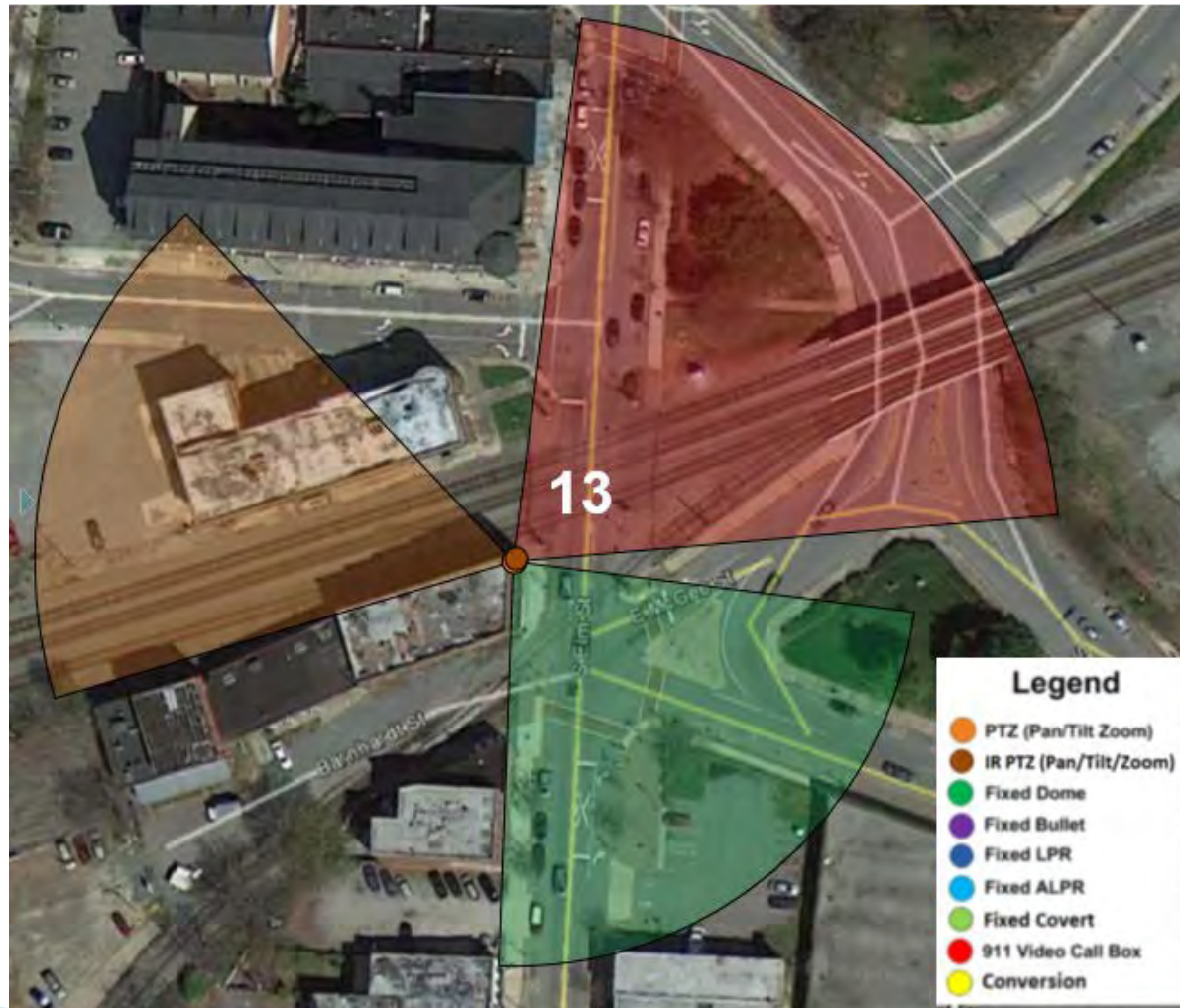
Friendly Ave. & Murrow Blvd. #12



City-Wide Wireless Camera Network Layout Railway Additions



South Elm and McGee Street Railway Crossing Camera View



Elm St. & McGee St. #13



1500 East Market Railway Crossing Camera View



1500 E. Market Street #14



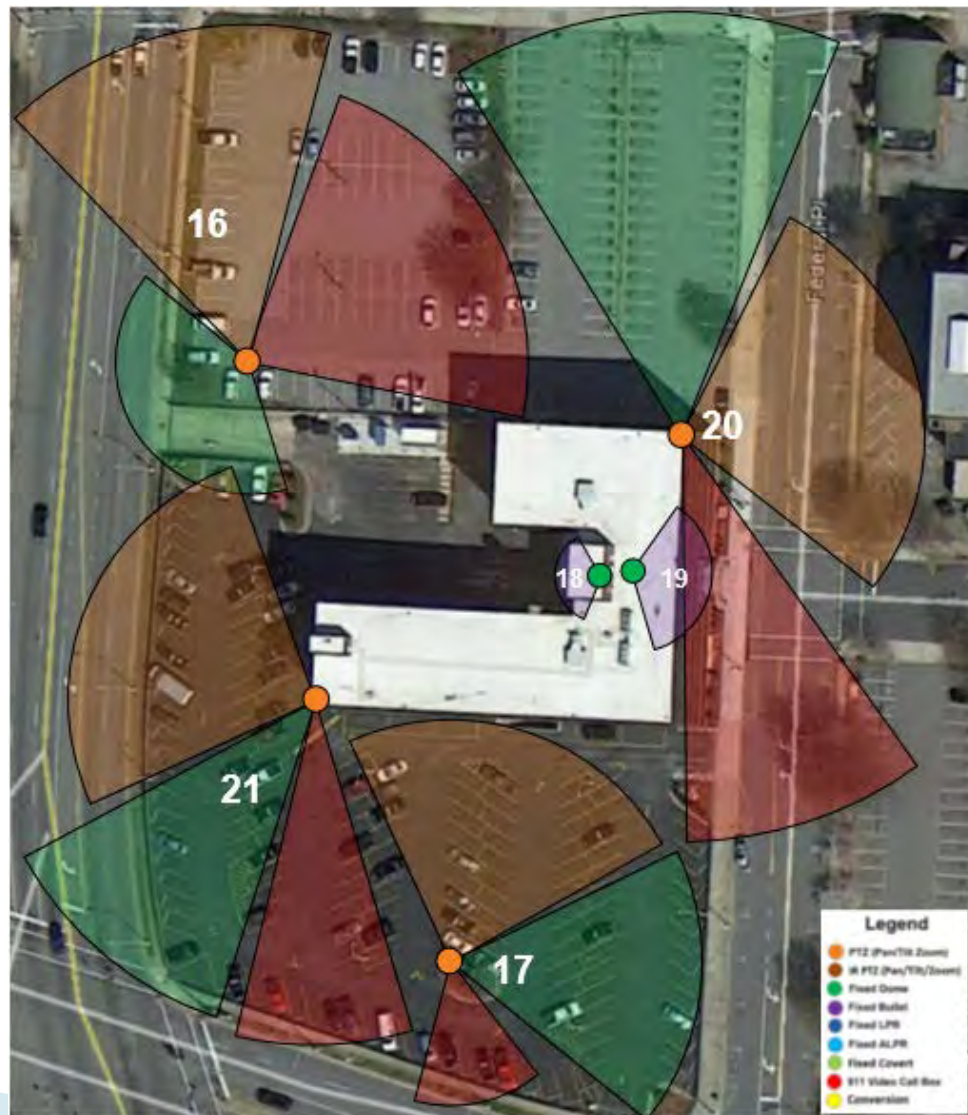
2000 East Market Railway Crossing Camera View



2000 E Market Street #15



Greensboro Police Department Camera Views



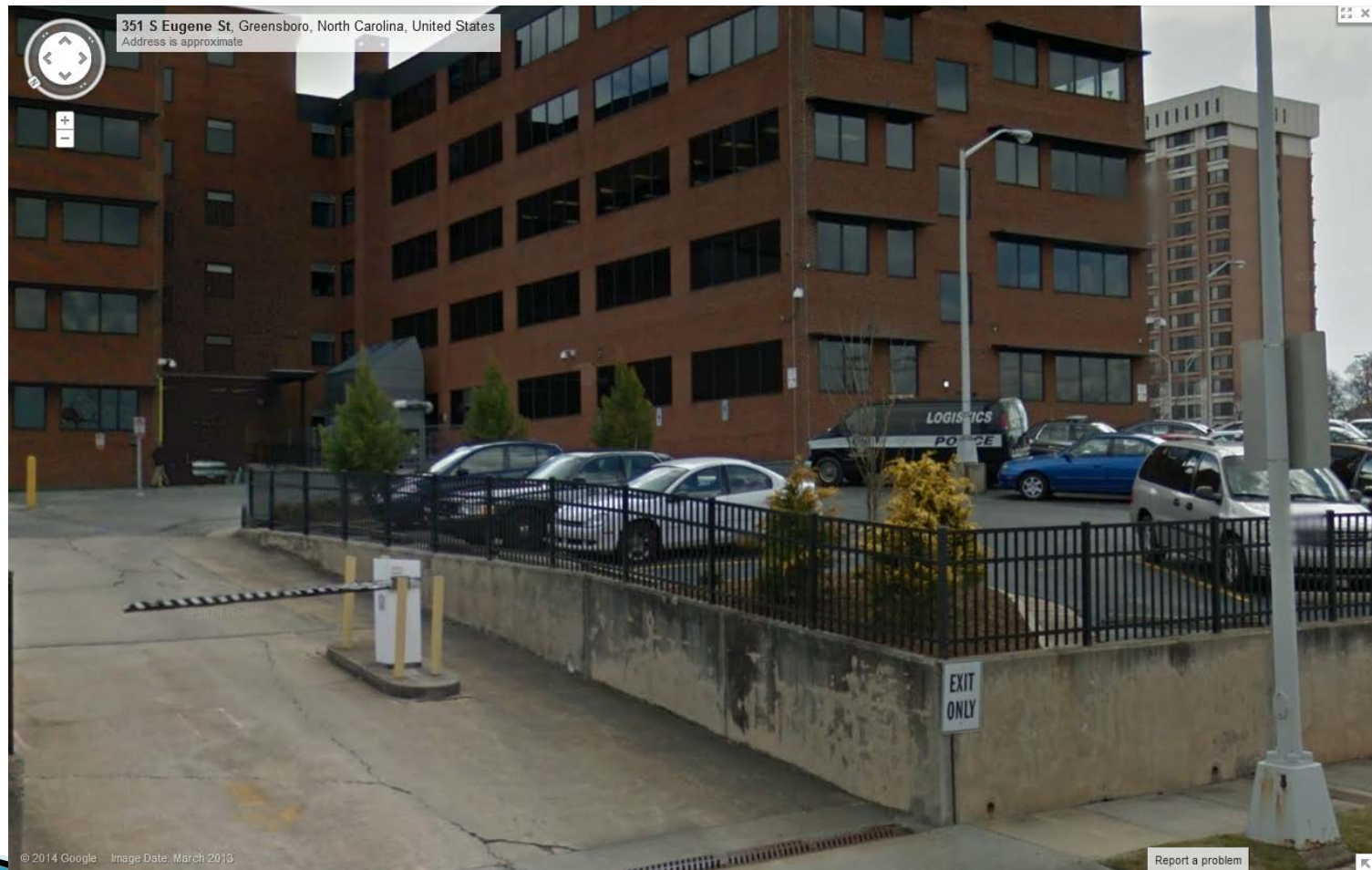
Headquarters #16



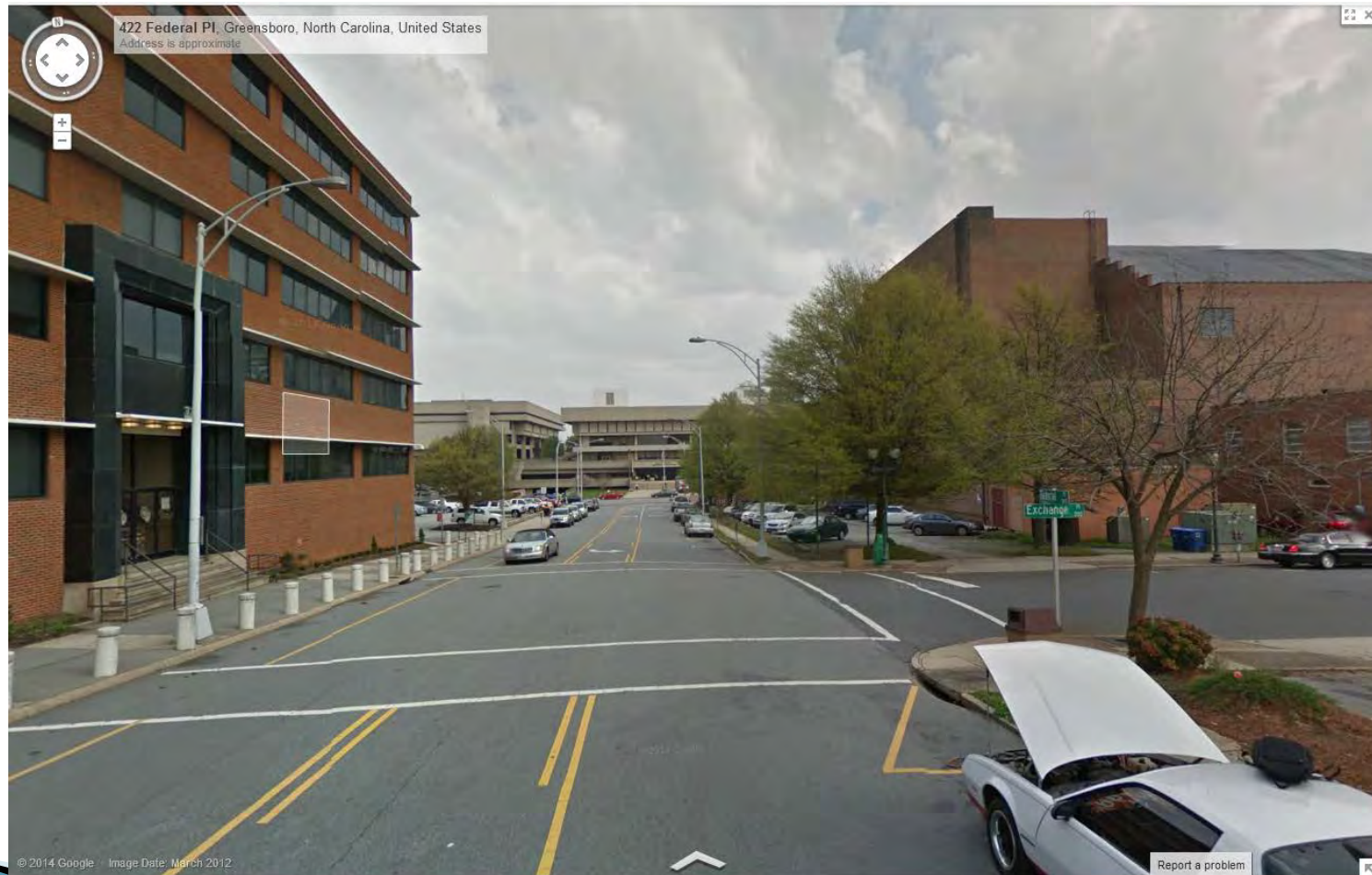
Headquarters #17



Headquarters # 18



Headquarters #19



Headquarters #20



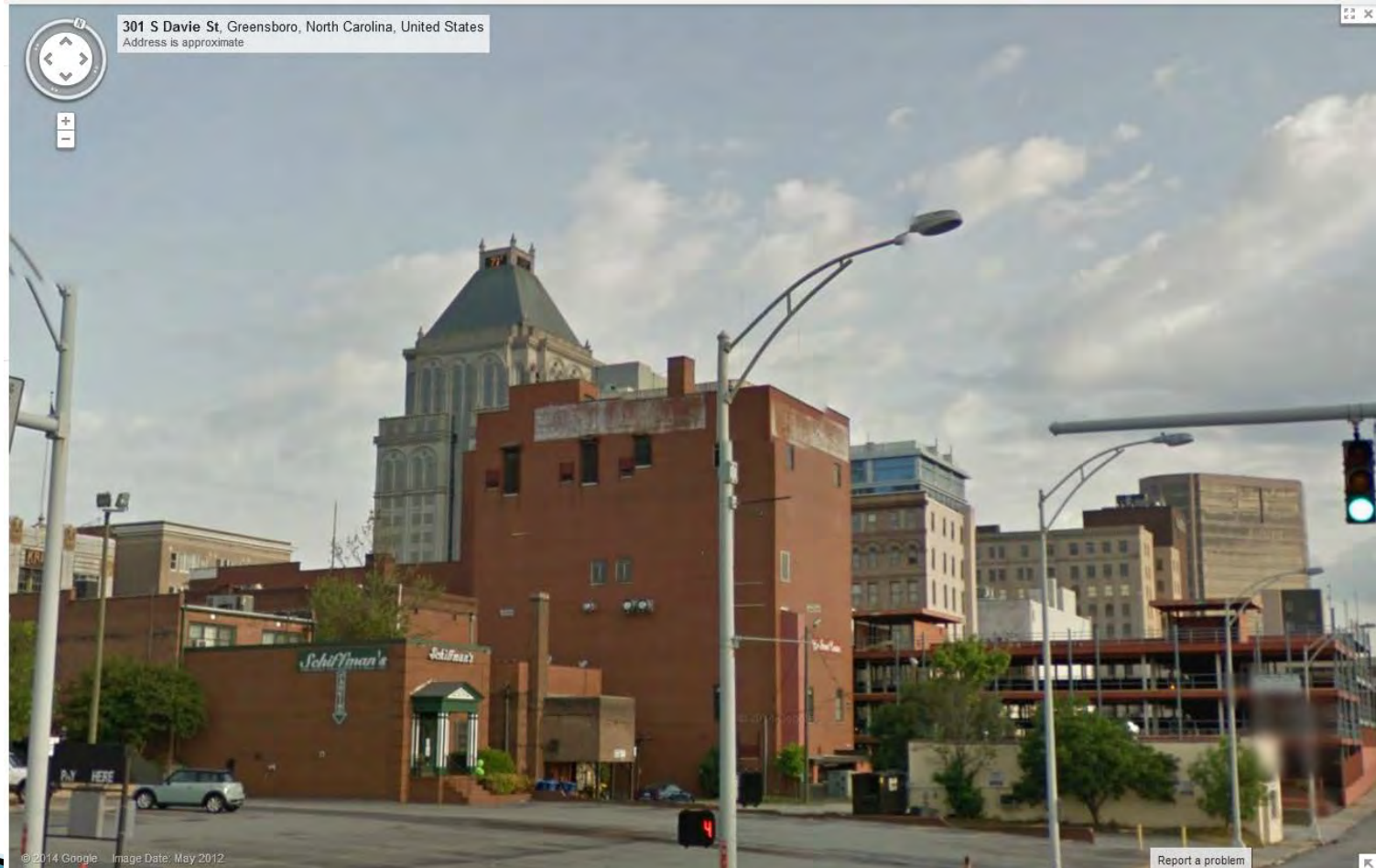
Headquarters #21



Vertical Real-Estate

- ❑ Local government provides the “**vertical real-estate**” (water tanks, towers, buildings, etc.) required to build their city-wide or wireless camera network and use of the **4.9 GHz public-safety** radio band for your wireless network deployment.

Lincoln Financial Building



Highway Patrol Tower



Bennett College Water Tower



Federal Trust Building



Pricing

Turnkey Installed Price* includes:

- Wireless Digital IP-based Pan/Tilt/Zoom (PTZ) "Patrolling" Cameras (19)
- Wireless Digital IP-based 2-Megapixel Fixed Dome (2)
- Network Video Recorder (NVR) @ the GPD on West Washington Street
- Wireless Infrastructure across the property including the Central Relay Point located on the Lincoln Financial Building (tentative), Area Relay Points located on city water tank and NC Highway Patrol communication tower, backhauls and extensions for connectivity to the NVR at the GPD on West Washington Street
- "Police Hotspots" located at the GPD parking area and at the intersection of West Friendly Avenue and North Elm Street (2)
- Camera Software Licenses (21)
- Installation Labor

Purchase Price\$67,038, plus taxes & shipping*