

# SR 520 Program

## Temporary Tolling Infrastructure

June 2, 2014



**Julie Meredith**  
SR 520 Program Director

**Lynn Peterson**  
Secretary of Transportation

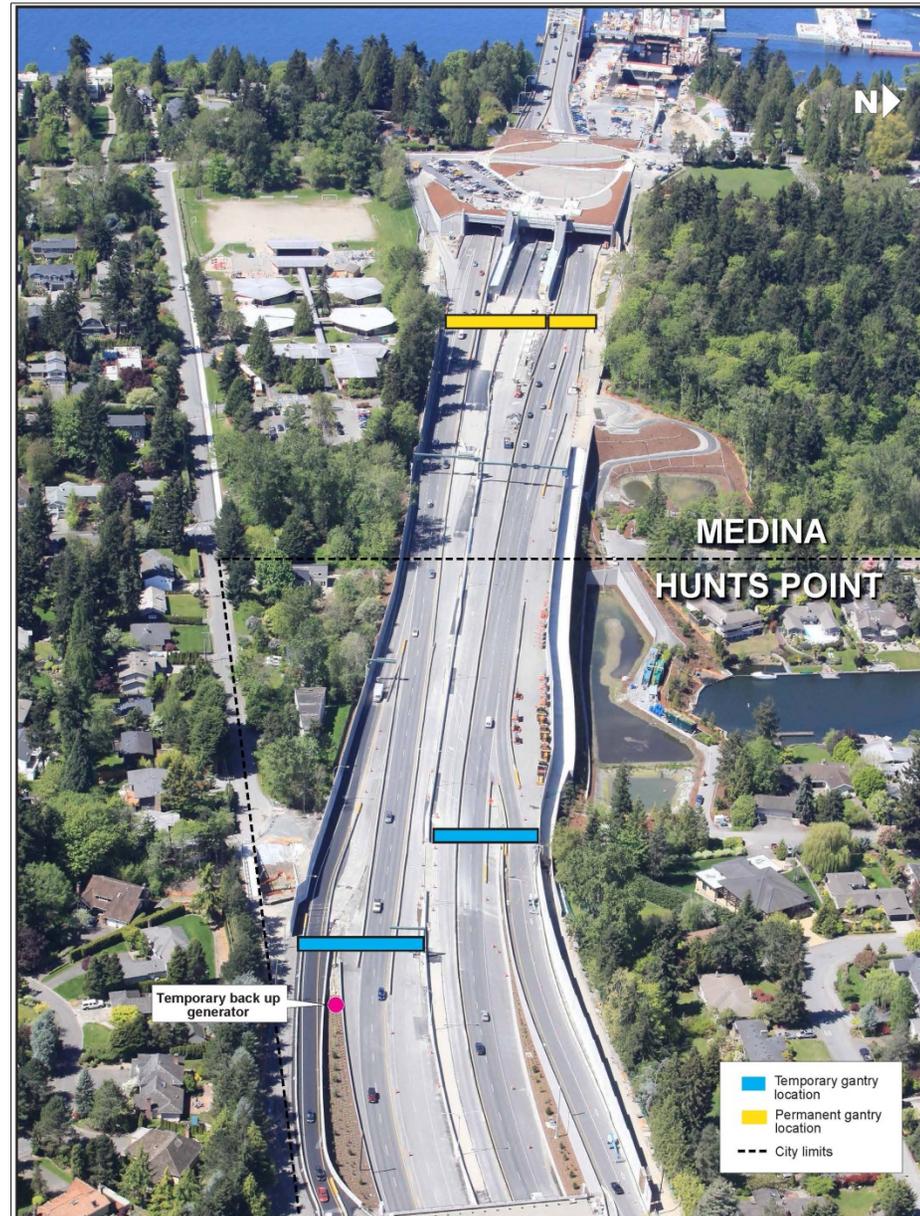
**SR 520 Temporary Tolling Infrastructure**  
**Hunts Point Town Council**  
Hunts Point Town Hall  
June 2, 2014

**Dave Becher**  
SR 520 Floating Bridge and Landings Project,  
Project Director

**Jennifer Charlebois**  
WSDOT Toll Division  
Lane Systems Project Engineer

# Presentation Agenda

- SR 520 tolling infrastructure overview
- Temporary tolling schedule
- Temporary tolling infrastructure
- Next steps



*Approximate locations of temporary and permanent tolling equipment on SR 520.*

# Why do we need a temporary toll facility?

- Maintain active tolling on SR 520 at all times.
- The new permanent location is in an area that will not be completed until the new floating bridge is open to traffic in 2016.
- The temporary tolling gantries are needed so that we can collect tolls while we are installing and testing the equipment at the permanent location.

# Tolling infrastructure

## Toll facility siting criteria

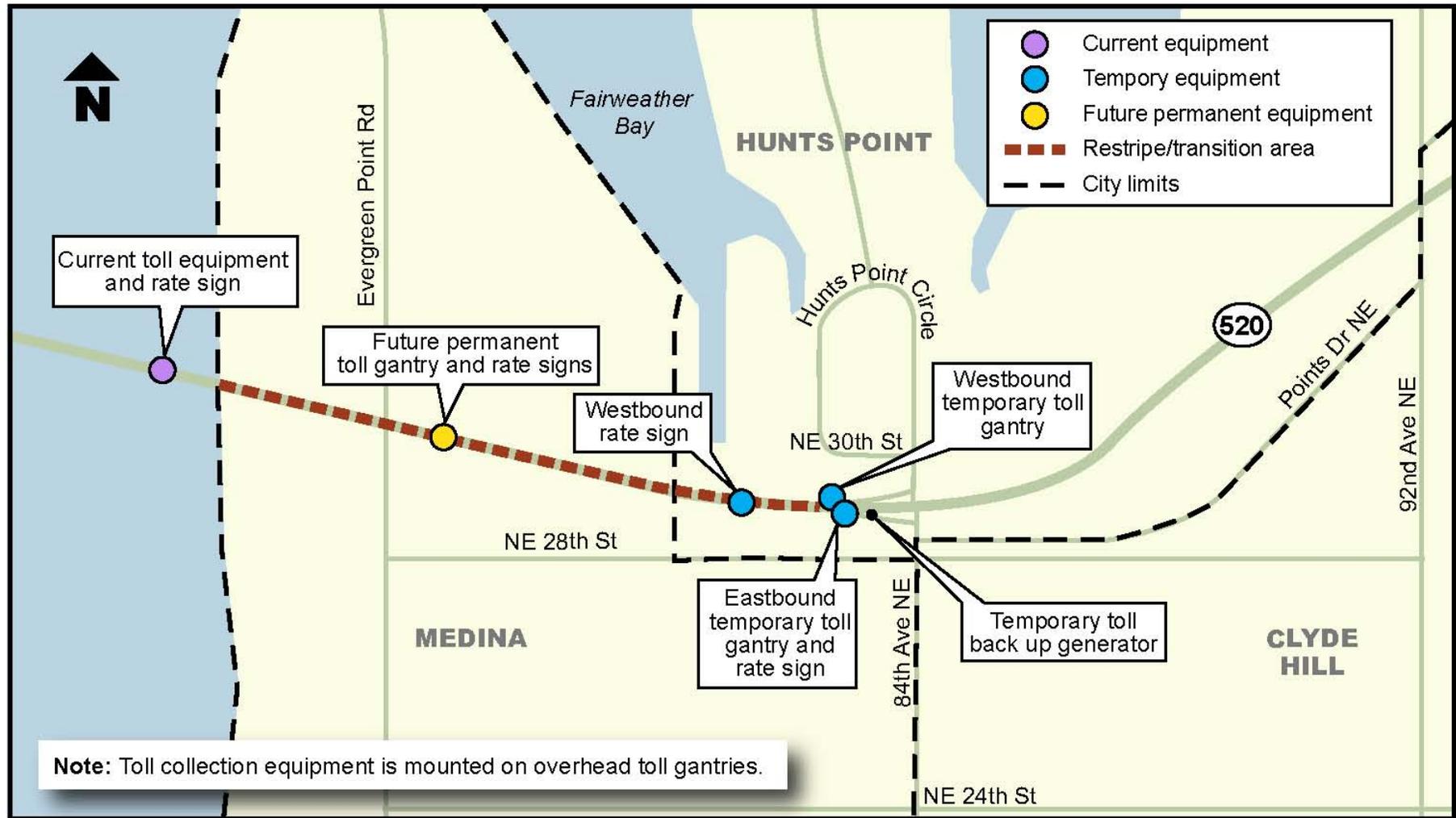
There are several criteria that we use to identify the optimal location for toll facilities.

Facilities should be:

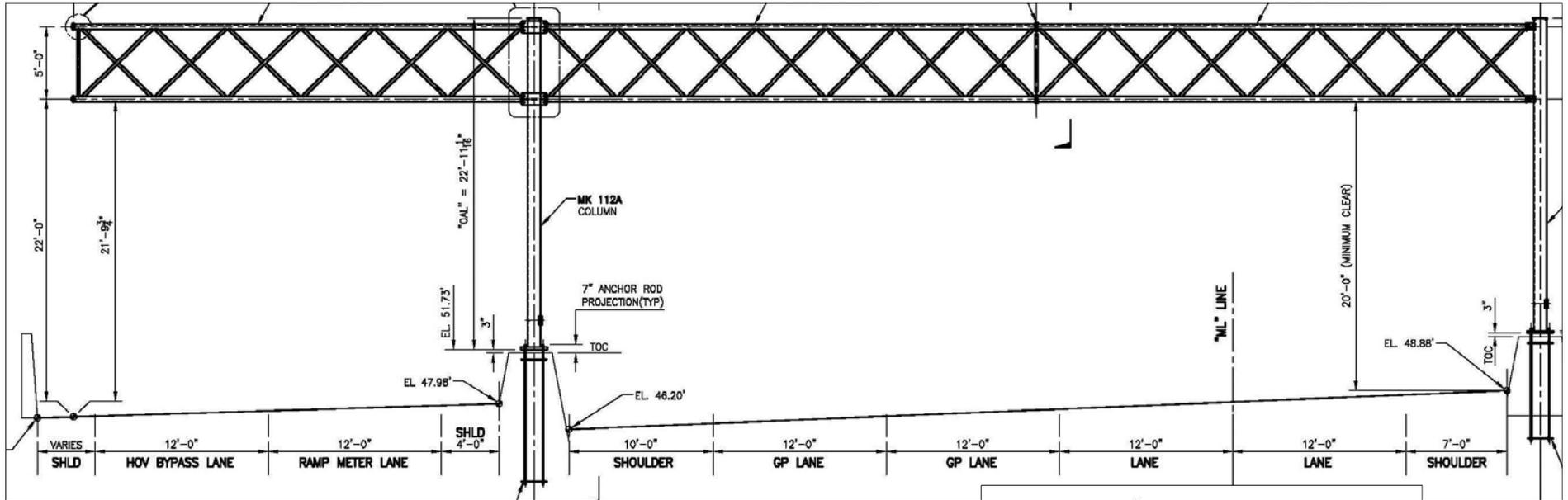
- Located to toll all drivers who have crossed the floating bridge, but not drivers who are exiting on the Eastside without taking the bridge.
- Located in an area where there is enough right of way to place utility cabinets in an area that is safe and easy to access without impacting traffic.
- Provide easy access from the shoulders for maintenance.
- Located away from ramps. – Exception has been made for the temporary toll facility on SR 520 in order to toll all users of the floating bridge during construction.

# Tolling Infrastructure on SR 520

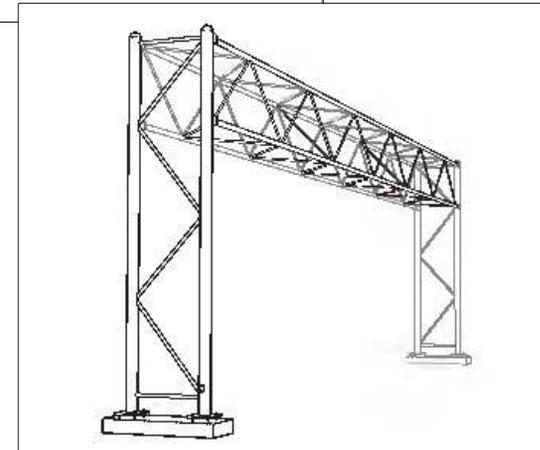
## Overview



# Temporary tolling infrastructure Appearance



*Cross section of the toll gantry that will be installed over the eastbound lanes and eastbound off-ramp at 84th Ave NE. A similar gantry will be installed over the westbound lanes.*



*Gantries for the temporary infrastructure will be typical truss-type*

# Tolling Infrastructure on SR 520

## Overview – Temporary location



*May 23, 2014: View from the 84th Ave NE lid, looking west towards Medina and Lake Washington.*

# Tolling Infrastructure on SR 520

## Overview – Temporary location



*June 1, 2014: The first section of temporary gantry was installed during the May 30 – June 2 weekend closure.  
View from the 84th Ave NE lid, looking west towards Medina and Lake Washington.*

# Temporary tolling infrastructure Schedule

Activity	Contractor	Approximate schedule
Foundation and gantry installation	KGM	February – July 2014
Temporary toll system installation	Telvent	August - September 2014
Testing of temporary toll system	Telvent	Approximately 14 weeks
Begin tolling at temporary site	Telvent	As early as mid-November 2014
Temporary tolling active	Telvent	Approximately two years
New floating bridge is open to traffic	KGM	Spring 2016
Permanent toll system is installed, tested and activated	Telvent	Summer/fall 2016
Temporary toll gantries and equipment removed	Telvent/ KGM	Fall 2016

# Temporary tolling infrastructure

## Appearance and operations



*Toll equipment in use on the east approach for the existing SR 520 bridge.*



*Scanners detect when a vehicle passes the toll zone.*



*Antennas "read" GoodToGo! pass information as vehicles travel through the toll point.*

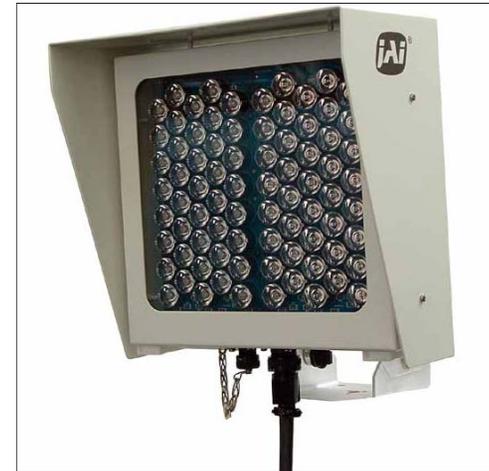


# Temporary tolling infrastructure

## Appearance and operations



*A new model of license plate cameras requires less light than the existing cameras to take viable pictures.*



*The new LED strobe light can be adjusted for intensity and uses a less-noticeable, infrared light with a blue filter.*



*Example of camera, strobe and antenna mounted on a test gantry.*

# Temporary tolling infrastructure

## Appearance and operations



*Backup generator with sound enclosure.*



*Fiber treadles inserted into the pavement count the number of axels in each passing vehicle.*



*Toll rate sign on the existing SR 520 bridge.*

# Next Steps

- June – July 2014: Install temporary toll gantries during weekend closures.
- July 7: SR 520 and WSDOT Toll Division will brief Hunts Point Town Council on noise waiver request.



*Approximate locations of temporary and permanent tolling equipment on SR 520.*

# Questions?

For more information and construction updates:

**Visit the SR 520 Orange Page:**

[www.wsdot.wa.gov/Projects/SR520Bridge/520orange/](http://www.wsdot.wa.gov/Projects/SR520Bridge/520orange/)

**SR 520 tolling:**

[www.wsdot.wa.gov/tolling/520](http://www.wsdot.wa.gov/tolling/520)

***Good to Go!:***

[www.wsdot.wa.gov/goodtogo](http://www.wsdot.wa.gov/goodtogo)

**Floating Bridge and Landings project information:**

<http://www.wsdot.wa.gov/Projects/SR520Bridge/BridgeAndLandings/>

**E-mail:**

[SR520Bridge@wsdot.wa.gov](mailto:SR520Bridge@wsdot.wa.gov)

**24-hour Construction hotline:**

206-708-4657

