## **Brick Streets**

### Proposed Maintenance and Reconstruction Guidelines



## **City Commission**

1/21/2014

Presented by

Mark Thiel

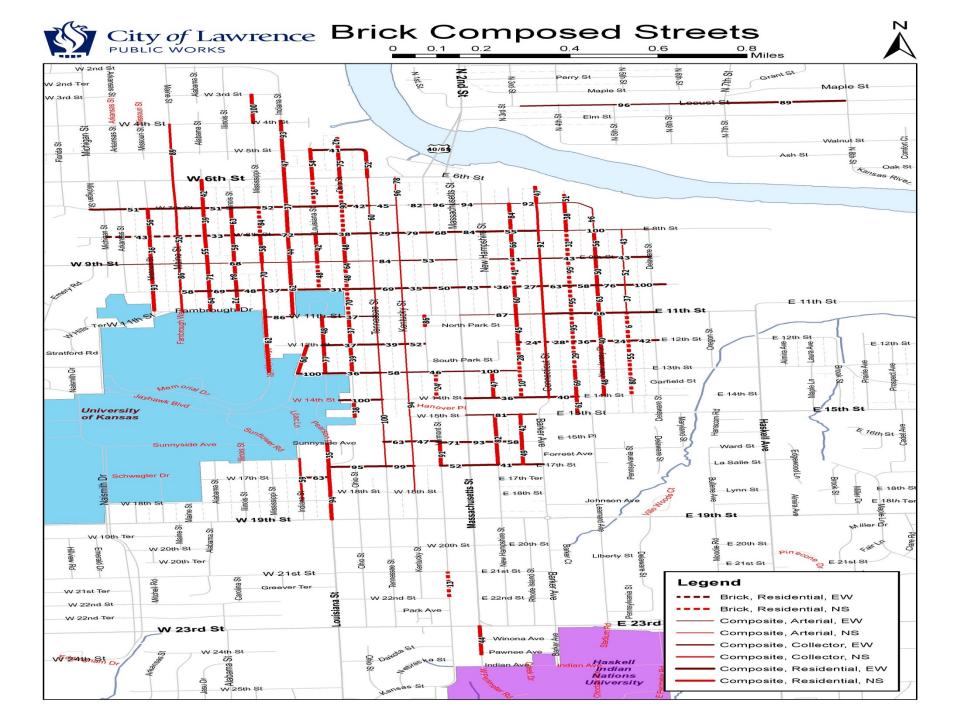
Assistant Director of Public Works

### Goals

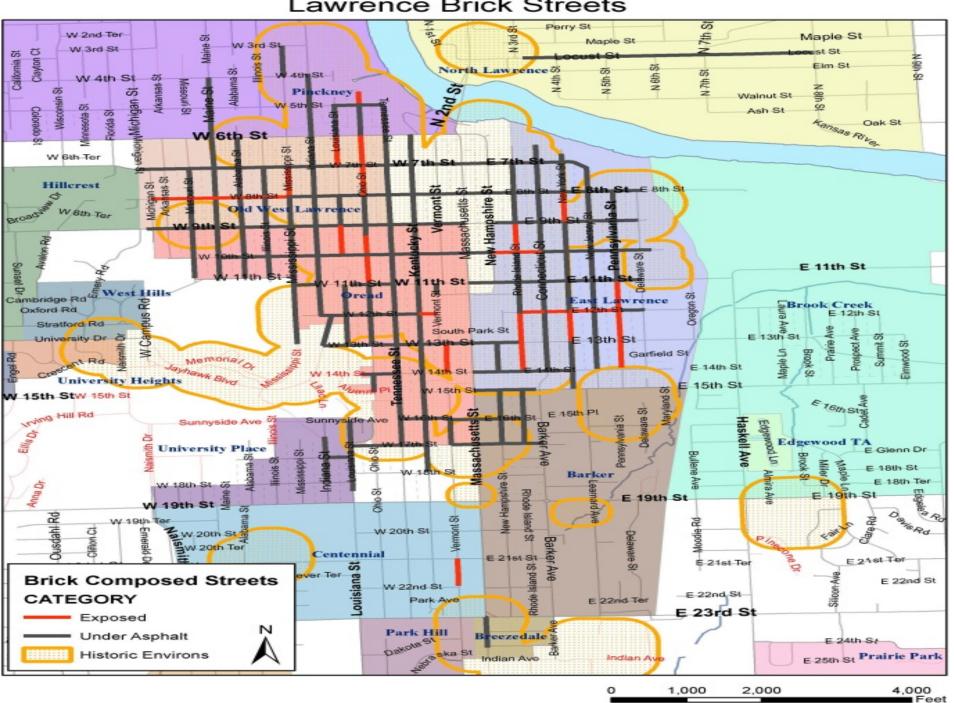
- Create Guidelines
  - Maintenance
  - Reconstruction
- Establish a brick street maintenance plan and map
- Establish a brick street reconstruction plan and map
- Beginning with the 2015 street maintenance program, incorporate brick street maintenance
- Establish a plan for identifying resources for reconstruction / CIP projects

## **Brick Streets**

- We have 23 lane miles of brick streets
  - Various condition (exposed brick, overlayed)
- The overall PCI
  - Cycle 3, = 75.54
- Brick street average PCI
  - Cycle 3, = 59.1



#### Lawrence Brick Streets





### **Brick Composed Streets**

STREET NAME	FROM_ST	TO_ST	CLASS	CATEGORY	PCI	DIRECTION
Alabama St	W 6th St	W 7th St	Residential	Composite	42	NS
Alabama St	W 8th St	W 9th St	Residential	Composite	54.8	NS
Alabama St	W 9th St	W 10th St	Residential	Composite	71.1	NS
Alabama St	W 10th St	W 11th St	Residential	Composite	64	NS
Alabama St	W 7th St	W 8th St	Residential	Composite	39.4	NS
Connecticut St	NEOS	E 7th St	Residential	Composite	46.6	NS
Connecticut St	E 7th St	26.5' S of E 14th St	Collector	Composite	92.4	NS
E 10th St	New Hampshire St	41' E of Rhode Island St	Residential	Brick	35.5	EW
E 10th St	41' E of Rhode Island St	Connecticut St	Residential	Brick	27	EW
E 10th St	33' W of Pennsylvania St	EEOS ROW (156' E of Delaware St)	Residential	Composite	100	EW
E 10th St	Connecticut St	New York St	Residential	Composite	63.2	EW
E 10th St	Massachusetts St	New Hampshire St	Residential	Composite	83.1	EW
E 10th St	New Jersey St	33' W of Pennsylvania St	Residential	Composite	76.1	EW
E 10th St	New York St	New Jersey St	Residential	Composite	58	EW
E 11th St	Connecticut St	11' E of Delaware St	Residential	Composite	66	EW
E 11th St	Massachusetts St	Connecticut St	Arterial	Composite	87.3	EW
E 12th St	Rhode Island St	Connecticut St	Residential	Brick	24.1	EW
E 12th St	Connecticut St	New York St	Residential	Brick	28.3	EW
E 12th St	New Jersey St	37' E of Pennsylvania St	Residential	Brick	24	EW
E 12th St	New York St	New Jersey St	Residential	Brick	35.5	EW
E 12th St	37' E of Pennsylvania St	30' E of Delaware St	Residential	Composite	41.6	EW
E 13th St	Massachusetts St	39' W of Rhode Island St	Collector	Composite	100	EW
E 14th St	Connecticut St	16' E of New York St	Residential	Composite	39.5	EW
E 14th St	Massachusetts St	Connecticut St	Residential	Composite	35.5	EW
E 15th St	Massachusetts St	41' W of Barker Ave	Collector	Composite	81.2	EW
E 16th St	Massachusetts St	New Hampshire St	Residential	Composite	92.7	EW
E 16th St	New Hampshire St	Rhode Island St	Residential	Composite	58	EW
E 17th St	Massachusetts St	Barker Ave	Residential	Composite	40.6	EW
E 7th St	Massachusetts St	New Hampshire St	Arterial	Composite	93.6	EW
E 7th St	New Hampshire St	New Jersey St	Arterial	Composite	92.4	EW
E 8th St	Massachusetts St	New Hampshire St	Residential	Composite	84.2	EW
E 8th St	New Hampshire St	Connecticut St	Residential	Composite	55.1	EW
E 8th St	Connecticut St	376' E of Pennsylvania St (conc~ @ RR tracks)	Arterial	Composite	100	EW

# **Cost Comparison**

- One block brick street reconstruction
  - Average cost = \$500,000
- One block of asphalt or concrete reconstruction
  - Average cost = \$200,000
- One block asphalt overlay or mill and overlay
  - Average cost = \$20,000 to \$30,000
- To date we have reconstructed 5 blocks of brick streets
  - 2 Ohio St.
  - 2 New York St.
  - 1 Pennsylvania St.

## **Proposed Guidelines**

- Maintenance
- Reconstruction

# **Funding**

- These guidelines do not secure funding
- The intent is to have a guide to begin the selection and prioritization of brick streets in the annual <u>maintenance</u> plan
- Reconstruction / restoration of brick street is usually a separate funding program

## **Maintenance Guideline**

- Do nothing for brick streets that have an acceptable PCI
- Perform partial brick patching / leveling on brick streets that need some minor maintenance, but overall have a good PCI
- Perform an overlay or mill & overlay with patching on brick streets that have major issues and a poor PCI

## **Reconstruction Guidelines**

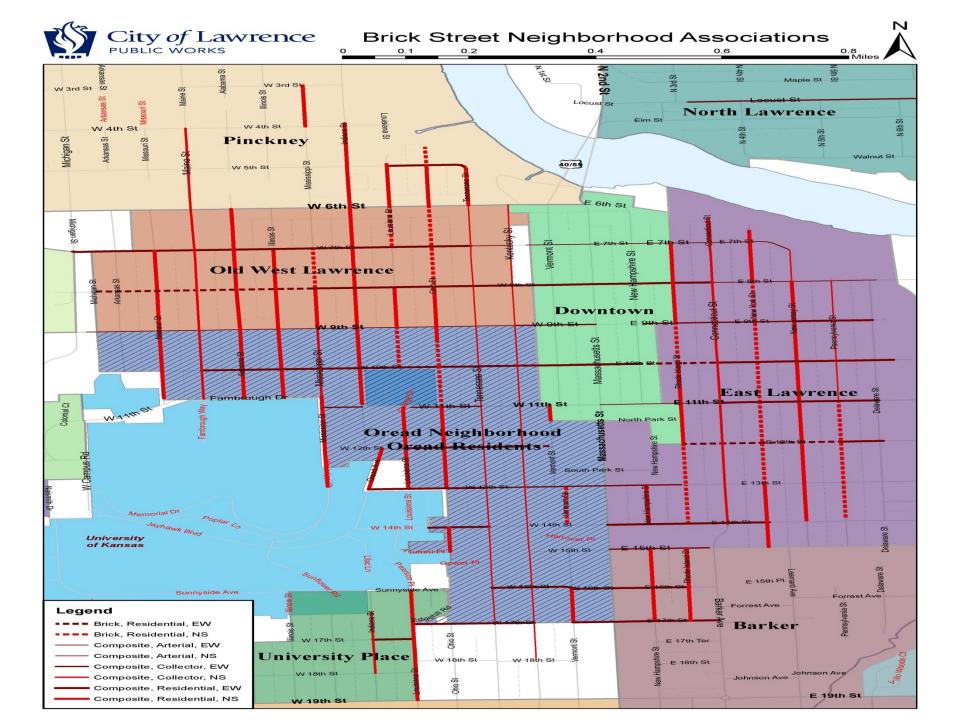
- Arterials and Collectors will be converted to modern paving methods, full depth asphalt or concrete
- Residential streets where no houses have frontage will be converted to modern paving methods, full depth asphalt or concrete
  - Typically East / West Streets
- Residential streets where houses have frontages will be reconstructed with brick
  - Typically North / South Streets
- <u>Exceptions</u> will be identified and listed as either reconstruct to brick or convert to asphalt or concrete

## **Limestone Curbs Guideline**

- Limestone curbs will be addressed on a block by block availability
  - Where a brick street block has sufficient in tack limestone curbs we will make every effort to use those for maintenance and restoration
  - Where they don't exist at all or insufficient quality or quantity modern concrete curb and gutter sections will be constructed
- Sidewalks will not be considered as part of these guidelines for maintenance or reconstruction

# **Public Input / Approvals**

- HRC meeting April 2013
- Public Meetings
  - Neighborhood Associations
- City Commission Input and Adoption



# **Summary**

- This is the next step in completing a comprehensive street maintenance plan
  - Will upon adoption address maintenance on all types of streets within our community
- There will be guidelines for:
  - Maintenance
  - Reconstruction
- This does not secure budgeting or funding for either maintenance or reconstruction (CIP) – only guidelines

# Questions

