

# **CITY OF WASHINGTON, ILLINOIS**Committee of the Whole Agenda Communication

**Meeting Date**: 9-11-2023

**Prepared By**: Dennis Carr – City Engineer

**Agenda Item**: Catherine Street – Brick Crosswalk Locations

**Explanation**: In June, Council discussed the pavement selection for Catherine Street. The consensus at that time was for Catherine Street to be reconstructed in Hot-Mix Asphalt with some crosswalks to be reconstructed using some of the existing bricks. Council gave the direction to bring back different options for the crosswalk locations to a future COW meeting.

The attachments have different options ranging from 1-block from the square all the way up to all crosswalks.

### **Fiscal Impact**:

Option	Description	Number of Crosswalks	Total Cost *
1	Crosswalks within 1 block radius of	6	\$28,092.00
	Washington Square		
2	Crosswalks perpendicular to Catherine	14	\$65,548.00
	Street (North-South) beginning to end		
3	Crosswalks parallel to Catherine Street	13	\$60,866.00
	(East-West) beginning to end		
4	All crosswalks along Catherine Street	27	\$126,414.00
	beginning to end		

**Action Requested**: Staff requests discussion on location and number of brick crosswalks for the Catherine Street project.

# **Catherine Street Reconstruction Brick Options**

The City of Washington wants to explore various options to maintain a brick element to Catherine Street, which is in an original brick street neighborhood. The four options investigated and priced include Crosswalks within 1 Block radius of Washington Square, crosswalks perpendicular to Catherine Street, crosswalks parallel to Catherine Street, and all crosswalks along Catherine Street beginning to end. The chart below summarizes the cost for each option. See subsequent pages for additional breakdown of costs.

Option	Description	<b>Number of Crosswalks</b>	Total Cost *
1	Crosswalks within 1 block radius of	6	\$28,092.00
	Washington Square		
2	Crosswalks perpendicular to Catherine	14	\$65,548.00
	Street (North-South) beginning to end		
3	Crosswalks parallel to Catherine Street	13	\$60,866.00
	(East-West) beginning to end		
4	All crosswalks along Catherine Street	27	\$126,414.00
	beginning to end		

<sup>\*</sup>Note: Cost of crosswalk items. This is in addition to the total roadway reconstruction cost.

# Option 1: All crosswalks within 1 block of Washington Square

#### Description:

Option 1 includes the addition of brick crosswalks within one block of Washington Square. The square currently utilizes brick crosswalks on the West side as well as brick sidewalks and bump-outs throughout. The brick crosswalks will carry the brick aesthetic from the square to the surrounding area. Exhibit A below is an example of a brick crosswalk with the newly poured asphalt pavement.

Cost: Cost per crosswalk:  $= \sim 28$ ' wide x 7' long = 196 SQ FT = 21.78 SQ YD

1: Brick Pavers: \$20.00 per SQ FT

2: Hot-Mix Asphalt (HMA) Binder Course, 3": \$125.00 per TON

3: Aggregate Base Course, 8": \$30.00 per TON

Conversion for HMA: 0.056 tons/sq yd/ inch

Conversion for Aggregate Base: 0.05833 tons/sq yd/ inch

Cost: 196(\$20.00) + 21.78(3")(0.056)(\$125.00) + 21.78(8")(0.05833)(\$30.00) = \$4,682.00

Number of crosswalks: = 1 (beginning) + 1 (Ford Lane) + 4 (Intersection of

Catherine Street and S High Street)

= 6 total crosswalks

Total Cost of crosswalks:  $= 6 \times \$4,682.00 = \$28,092.00$ 

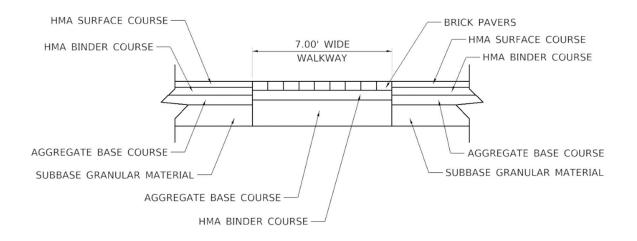




Exhibit A: Example HMA Street

# Option 2: Crosswalks perpendicular to Catherine Street (North-South) beginning to end

<u>Description:</u> Option 2 includes the addition of brick crosswalks perpendicular to Catherine Street. The brick crosswalks will be used in conjunction with crosswalk markings to call attention to the new crosswalks across Catherine Street. Exhibit A above is an example of a brick crosswalk with the newly poured asphalt pavement.

Cost: Cost per crosswalk:  $= \sim 28$ ' wide x 7' long = 196 SQ FT = 21.78 SQ YD

1: Brick Pavers: \$20.00 per SQ FT

2: Hot-Mix Asphalt (HMA) Binder Course, 3": \$125.00 per TON

3: Aggregate Base Course, 8": \$30.00 per TON

Conversion for HMA: 0.056 tons/sq yd/ inch

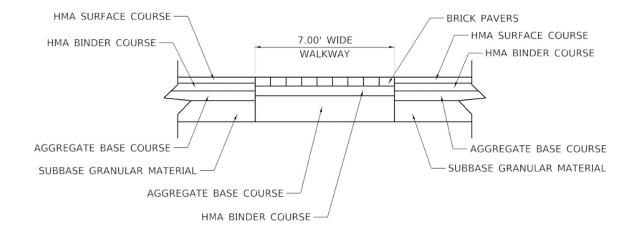
Conversion for Aggregate Base: 0.05833 tons/sq yd/ inch

Cost: 196(\$20.00) + 21.78(3")(0.056)(\$125.00) + 21.78(8")(0.05833)(\$30.00) = \$4,682.00

Number of crosswalks: = 1 (beginning) + 12 (2 per intersection) + 1 (end)

= 14 total crosswalks

Total Cost of crosswalks: =  $14 \times 4,682.00 = 65,548.00$ 



# Option 3: Crosswalks parallel to Catherine Street (East-West) beginning to end

Description: Option 3 includes the addition of brick crosswalks parallel to Catherine Street.

> The brick crosswalks will be used in conjunction with crosswalk markings to call attention to the new crosswalks parallel to Catherine Street. Exhibit A above is an

example of a brick crosswalk with the newly poured asphalt pavement.

 $= \sim 28$ ' wide x 7' long = 196 SQ FT = 21.78 SQ YD Cost per crosswalk: Cost:

1: Brick Pavers: \$20.00 per SQ FT

2: Hot-Mix Asphalt (HMA) Binder Course, 3": \$125.00 per TON

3: Aggregate Base Course, 8": \$30.00 per TON

Conversion for HMA: 0.056 tons/sq yd/ inch

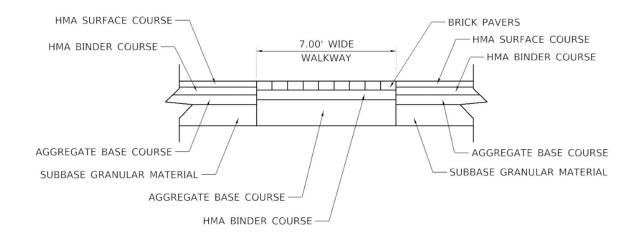
Conversion for Aggregate Base: 0.05833 tons/sq yd/ inch

Cost: 196(\$20.00) + 21.78(3")(0.056)(\$125.00) + 21.78(8")(0.05833)(\$30.00) = \$4,682.00

Number of crosswalks: = 1 (Ford Lane) + 12 (2 per intersection)

= 13 total crosswalks

Total Cost of crosswalks:  $= 13 \times \$4,682.00 = \$60,866.00$ 



# Option 4: Crosswalks parallel to Catherine Street (East-West) beginning to end

<u>Description:</u> Option 4 includes the addition of brick crosswalks at all intersections. The brick crosswalks will be used in conjunction with crosswalk markings to call attention to the new crosswalks at all intersections. Exhibit A above is an example of a brick crosswalk with the newly poured asphalt pavement.

Cost: Cost per crosswalk:  $= \sim 28$ ' wide x 7' long = 196 SQ FT = 21.78 SQ YD

1: Brick Pavers: \$20.00 per SQ FT

2: Hot-Mix Asphalt (HMA) Binder Course, 3": \$125.00 per TON

3: Aggregate Base Course, 8": \$30.00 per TON

Conversion for HMA: 0.056 tons/sq yd/ inch

Conversion for Aggregate Base: 0.05833 tons/sq yd/ inch

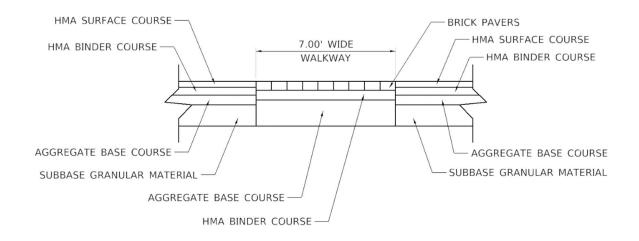
Cost: 196(\$20.00) + 21.78(3")(0.056)(\$125.00) + 21.78(8")(0.05833)(\$30.00) = \$4,682.00

Number of crosswalks: = 1 (beginning) + 1 (Ford Lane) + 24 (4 per

intersection) + 1 (end)

= 27 total crosswalks

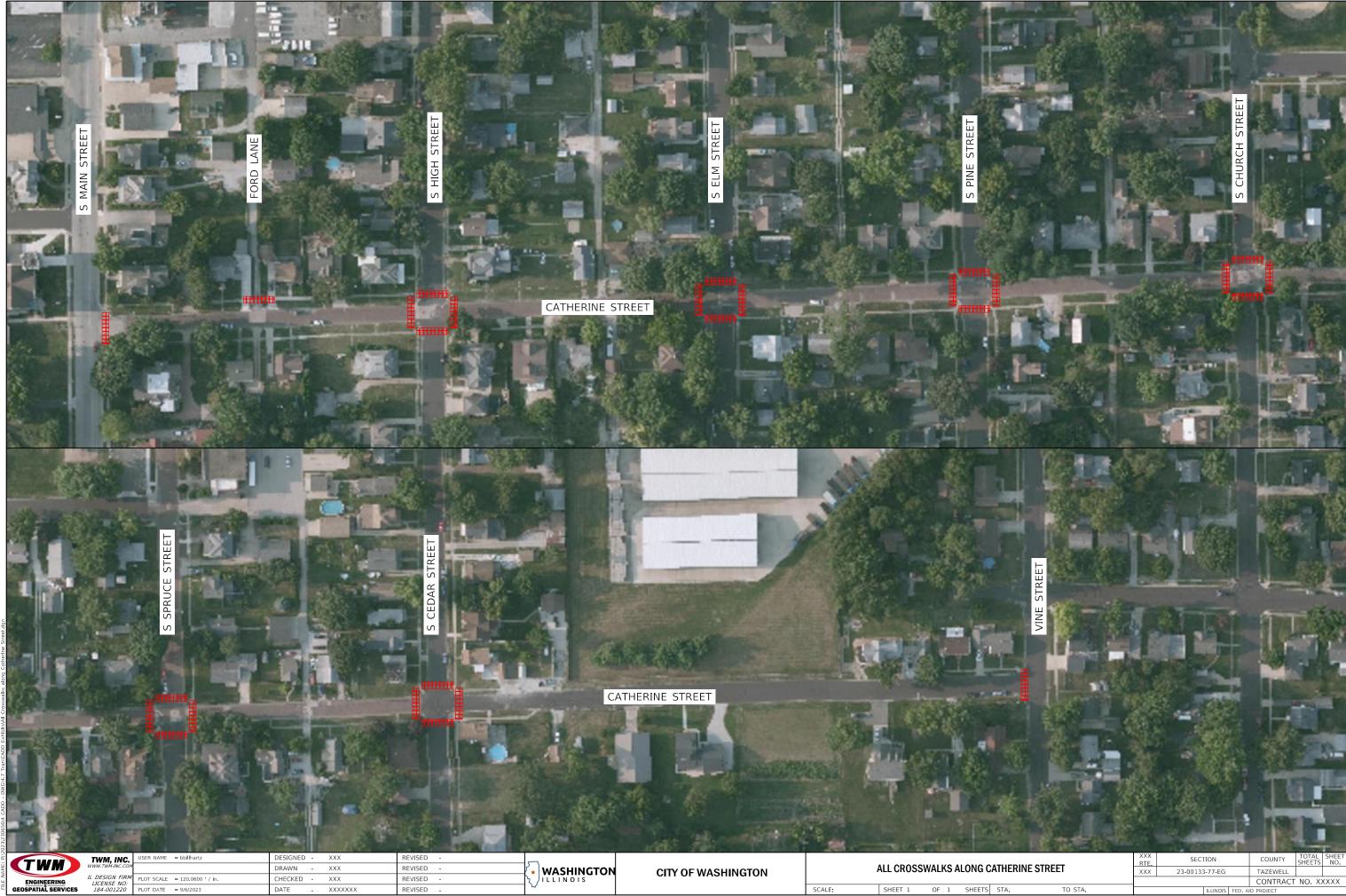
Total Cost of crosswalks:  $= 27 \times \$4,682.00 = \$126,414.00$ 











MODEL: Default