



# CITY of NOVI CITY COUNCIL

## Agenda Item 3 February 25, 2019

**SUBJECT:** Approval of Change Order No. 3 to L.J. Construction, Inc., for Phase 2 of the 2018-2019 Boardwalk Repair Program in the amount of \$316,390, and amend the budget.

**SUBMITTING DEPARTMENT:** Department of Public Works, Engineering Division

**CITY MANAGER APPROVAL:** *[Signature]*

<b>EXPENDITURE REQUIRED</b>	<b>\$ 316,390.00</b>
<b>AMOUNT BUDGETED</b>	<b>\$ 506,750</b>
<b>APPROPRIATION REQUIRED</b>	<b>\$ 425,616</b>
<b>LINE ITEM NUMBER</b>	<b>400-204.00-974.476</b>

### BACKGROUND INFORMATION:

A program to refurbish and restore the City's boardwalk network was implemented in fall of 2018. The boardwalk network was evaluated and categorized for maintenance, repair, or replacement based on condition and usage. The first categorization was to determine which boardwalks could be maintained with in-house Field Operations staff and which boardwalks were considered for a more extensive rehabilitation method and required the expertise of a qualified contractor. This categorization developed a list of fourteen (14) boardwalks that needed special attention from a structural engineering standpoint.

On October 22, 2018, City staff brought to City Council a recommendation to award a contract to L.J. Construction, Inc., in the amount of \$544,847.00. Based on the approved budget at the time, this contract concentrated on the six (6) worst rated boardwalks (Boardwalk No.'s 1, 3, 4, 11, 14 and 17) out of the 14, for immediate repair or replacement (a map of those boardwalk locations is attached).

A seventh boardwalk (Boardwalk No. 20), located on the west side of Beck Road, just south of the Bellagio Subdivision entrance was added to the contract. Monies appropriated to repair Boardwalk No. 20 were obtained from an insurance settlement, when a driver under the influence had struck the boardwalk in March 2018. The City did not acquire these funds in time before bidding the original contract; so, Boardwalk No. 20 was added via Change Order No. 2.

Boardwalk No. 10, located on the west side of Beck Road, along the south property frontage of the Kirkway Place development (which was also on the list of 14), was previously added to the 8 Mile Pathway (Garfield to Napier) contract and contractor (Koala-T Construction). This boardwalk was in such poor condition, that it had been closed for a long period of time. Due to the amount of usage this boardwalk receives, the City decided to immediately issue a change order to another contract in order to accelerate its reopening.

This leaves six boardwalks remaining of the fourteen that require a qualified contractor (Boardwalk No.'s 5, 8, 9, 15, 16 & 33). L.J. Construction, Inc., specializes in boardwalk construction. In 2016, they very successfully completed Phase 1 of the ITC Trail (Garfield/9 Mile to ITC Community Sports Park). Phase 1 of the boardwalk repair program with L.J. Construction, Inc. has gone extremely well. Not only the quality of workmanship, but also the competitive pricing L.J. Construction, Inc. has to offer.

In order to continue with this proven contractor and exceptional unit pricing, City staff requests approval to appropriate additional funding toward this program to extend the longevity of these boardwalks along these often used pathway corridors. Attached is a draft construction Change Order No. 3 in the estimated amount of \$316,390.00 to L.J. Construction, Inc. to begin Phase 2 construction spring of 2019. The total appropriation requested (\$425,616) includes costs associated with construction engineering, geotechnical material testing, crew days, and a construction contingency for any unforeseen issues with the substructure of these proposed boardwalks.

Awarding additional engineering services to the City Engineering Consultant AECOM for this project is proposed elsewhere on the agenda.

**RECOMMENDED ACTION:** Approval of Change Order No. 3 to L.J. Construction, Inc., for Phase 2 of the 2018-2019 Boardwalk Repair Program in the amount of \$316,390, and amend the budget.

**RESOLUTION**

NOW, THEREFORE BE IT RESOLVED that the following  
Budget Amendment for change order No. 3 to  
L.J. Construction, Inc. , for the construction associated with  
the Phase 2 of the 2018-2019 Boardwalk Repair Program  
is authorized:

**INCREASE  
(DECREASE)**

<b>CAPITAL IMPROVEMENT PROGRAM FUND</b>	
<b>APPROPRIATIONS</b>	
Capital Outlay	425,616
<b>TOTAL APPROPRIATIONS</b>	<u><b>\$ 425,616</b></u>
<b>Net Increase (Decrease) to Fund Balance</b>	<u><u><b>\$ (425,616)</b></u></u>

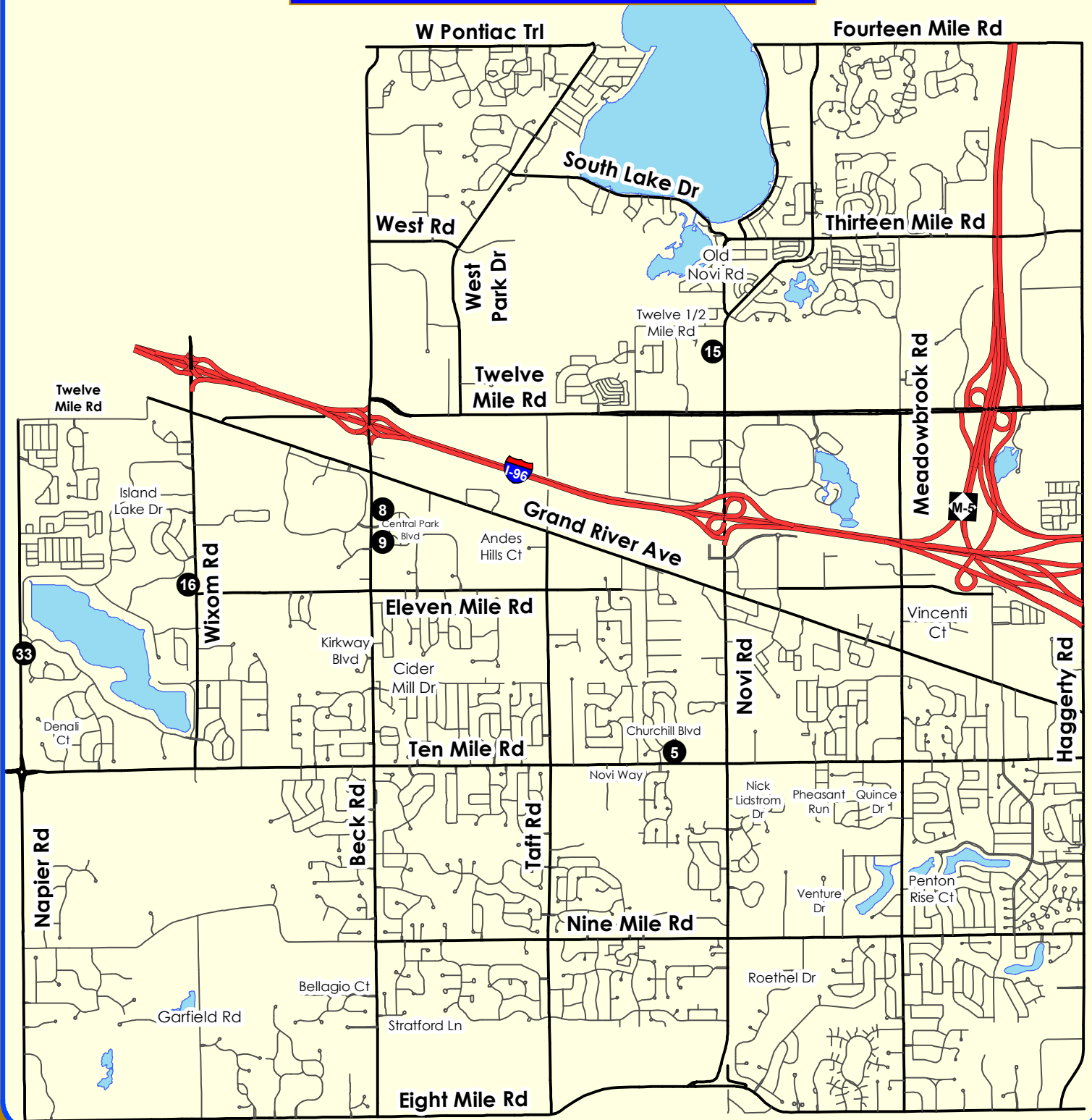
I hereby certify that the foregoing is a true and complete copy of a  
resolution adopted by the City Council of the City of Novi  
at a regular meeting held on February 25, 2019

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Cortney Hanson  
City Clerk

# 2019 Boardwalk Repairs

## Location Map



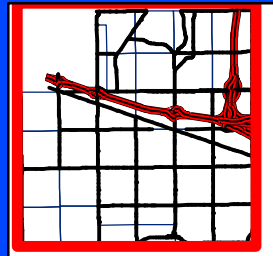
Map Author: Joseph Akers  
 Date: February 14, 2019  
 Project: 2019 Boardwalk Repairs  
 Version #: 1.0

Amended By:  
 Date:  
 Department:

**MAP INTERPRETATION NOTICE**

Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

# Boardwalk Repair Locations



### City of Novi

Engineering Division  
 Department of Public Works  
 26300 Lee BeGole Drive  
 Novi, MI 48375  
 cityofnovi.org

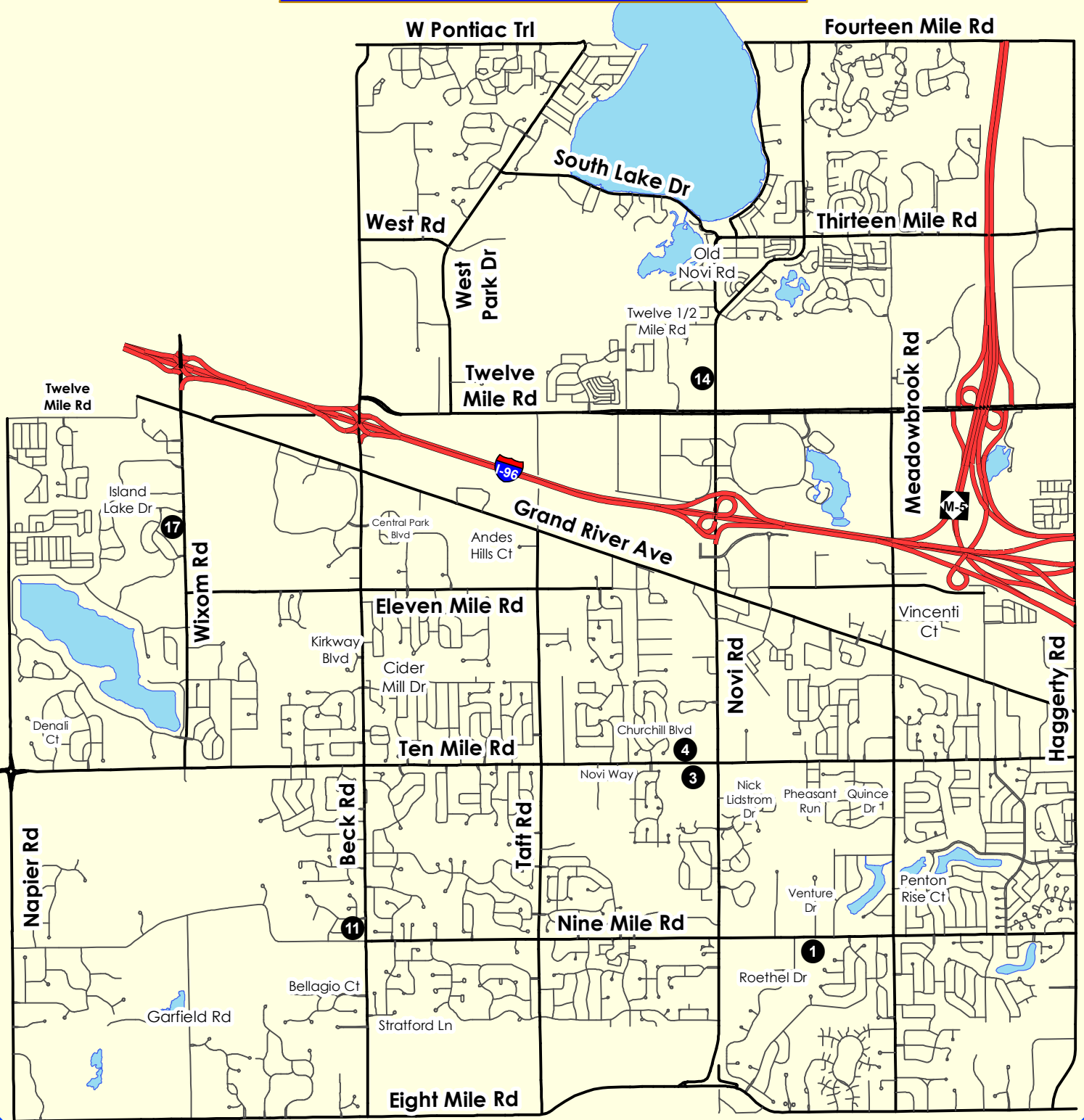


1 inch = 4,190 feet



# 2018 Boardwalk Repairs

## Location Map



Map Author: Joseph Akers  
 Date: October 9, 2018  
 Project: Boardwalks  
 Version #: 1.1

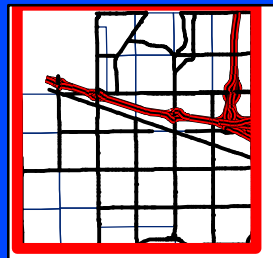
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Boardwalk Repair Locations



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 Department of Public Services  
 26300 Lee BeGole Drive  
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Feet

0 850 1,700 3,400 5,100

1 inch = 4,190 feet







**CITY OF NOVI  
2019 Boardwalk Program  
Probable Estimate of Cost  
2/11/2019  
Boardwalk 5, 8, 15 (Option 1), and 33**

Item No.	Item Description	Unit	Quantity	Unit Price (\$)	Item Cost (\$)
1	Mobilization	LS	1.00	\$ 27,000.00	\$ 27,000.00
2	Maintaining Traffic	LS	1.00	\$ 16,250.00	\$ 16,250.00
4	Silt Fence	LF	430.00	\$ 1.50	\$ 645.00
5	Boardwalk, Remove	LF	354.00	\$ 95.00	\$ 33,630.00
8	Sidewalk, Remove	SY	39.50	\$ 50.00	\$ 1,975.00
9	Concrete Headwall	EA	3.00	\$ 6,500.00	\$ 19,500.00
10	Boardwalk Decking Boards	SY	313.60	\$ 85.00	\$ 26,656.00
11	Boardwalk Railing	LF	708.00	\$ 53.00	\$ 37,524.00
12	Brdwlk Substructure, Beam/Joist	LF	354.00	\$ 120.00	\$ 42,480.00
15	Helical Pile - 15-foot Deep	EA	95.00	\$ 800.00	\$ 76,000.00
16	Helical Pile - Add'l 5-foot over 15'	EA	47.00	\$ 200.00	\$ 9,400.00
18	Helical Pile Equip, Furnished	LS	1.00	\$ 5,000.00	\$ 5,000.00
19	Agg Base, 21AA Limestone, 6-inch	SY	39.50	\$ 30.00	\$ 1,185.00
21	Sidewalk, Conc, 4-inch	SF	353.00	\$ 15.00	\$ 5,295.00
22	Sidewalk Grading	LF	44.00	\$ 5.00	\$ 220.00
24	Surface Restoration	LS	1.00	\$ 2,500.00	\$ 2,500.00
25	Pre-Construction Audio-Visual	LS	1.00	\$ 2,250.00	\$ 2,250.00
26	Boardwalk, Railing, 2 x 6 Board	LF	1060.00	\$ 8.00	\$ 8,480.00
27	Screw Down Top Rail	LS	1.00	\$ 400.00	\$ 400.00
	Construction Cost				\$ 316,390.00
	Right of Way Acquisition	LS	-	\$ -	\$ -
	Design Engineering*	0.00%			\$0.00
	Geotechnical Investigation	LS	0.00	\$ -	\$0.00
	Design Contingency	0%			\$0.00
					<b>\$0.00</b>
	Construction Engineering	7.00%			\$22,147.30
	Materials Testing	0.0%			\$0.00
	Crew Days	CD	34.00	\$ 700.00	\$23,800.00
	Construction Contingency	20%			\$63,278.00
					<b>\$109,225.30</b>
	<b>Total Estimated Cost</b>				<b>\$ 425,615.30</b>

Estimate Assumptions:

Assumed no materials testing. Will VI concrete.

Only replacing rail board on Boardwalk 15