

Lakeshore Park Tunnel

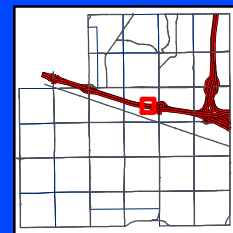
Location Map



Map Author: Jokic
Date: 06/08/2022
Project: Lakeshore Park Tunnel
Version #: 1.0

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.



City of Novi

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



0 5 10 20 30
Feet
1 inch = 42 feet

MEMORANDUM



TO: VICTOR CARDENAS, INTERIM CITY MANAGER
FROM: JEFF MUCK, PRCS DIRECTOR
JEFF HERCZEG, DIRECTOR OF PUBLIC WORKS
SUBJECT: LAKESHORE TUNNEL UPDATE
DATE: JANUARY 12, 2023

The pedestrian tunnel under South Lake Drive which connects Lakeshore Park to the beach requires improvements. The project scope includes removing the existing tunnel and replacing it with a new precast 7'x 10' concrete tunnel, improved drainage with an outlet to Walled Lake and reconstruction of the road. Additional site improvements include new fence, guardrail, sidewalk, and lockable gates on both sides of the tunnel.

Staff received bids on December 20, 2022, for the project. The lowest qualified bid was ~\$600K for construction, which is about double of the original engineer's estimate (see attached letter of explanation on overages). Additional cost to relocate DTE power lines, a modified project scope, and construction engineering puts the current out-the-door budget at ~\$1M (see out-the-door attached).

The budget for the project at the time of design award was around \$500K, therefore, a budget amendment for and additional ~\$500K will be required to execute the project. The construction award and budget amendment will be on the January 23, 2023, City Council agenda for consideration.

Construction is now expected to start in early spring of 2023 with completion no later than Memorial Day to minimize the impact on usage of the park and beach. Please let staff know if additional information on the project is required.



January 10, 2023

Ms. Rebecca Runkel
City of Novi
26300 Lee Begole Drive
Novi, MI 48375

Reference: Cost Differences for Lakeshore Park Tunnel Replacement

Dear Ms. Runkel,

The primary reason for the higher costs is the current state of industry variability, which makes it difficult to accurately estimate how contractors will bid. MDOT, GLWA and the city have all experienced similar problems with bid prices regularly coming in 20-40% higher than the engineer's estimate. On this project, for example, among the contractors bidding, the highest bid received was more than twice the winning bid. While eleven Contractors submitted bids for this project (very competitive), it still resulted in higher than expected unit prices. A few items that accounted for the majority of the difference between the engineer's estimate and the winning bid are as follows:

- Hot Mix Asphalt – Prices for HMA have been rapidly increasing. The unit price included on the engineer's estimate are higher than recent prices, however, it appears as though the small quantity of asphalt required on this project resulted in bid prices being higher than expected.
- Culvert, Precast Conc Box, 10 foot by 8 foot, Install – The winning bid price for the culvert that was installed on Flint Street in 2019 was the starting point for the estimated unit price on this project. The estimated price per foot to install the culvert was 1.5 times the unit price of the winning bid for the Flint Street project, which was for the installation of a larger cross section than the Lakeshore Tunnel project. The winning bid for this project (same contractor who constructed Flint Street) was almost double the engineer's estimate.
- The estimated cost for the box culvert itself was higher than originally estimated. This was not part of the bid package as the city purchased the box culvert in advance of the start of the project to avoid delays due to lead times. This was largely a function of the availability of materials and backlog of work amongst fabricators. As above, the box culvert for this project was 50% more expensive than the larger and longer box culvert from the same fabricator as with the Flint Street project three years prior.
- Another specific item with a significantly higher cost was the concrete for the retaining walls. The unit price of the winning bid was over twice as expensive as the engineer's estimate. The engineer's estimate for this unit price, as with others, was based off the MDOT average unit prices with an effort to adjust based on the total quantity needed for the project.
- Finally, the condensed timeline for installation and additional costs to move DTE power lines increased overall project scope and contributed to higher bid prices.

Sincerely,

AECOM Great Lakes, Inc.

Sean Kelsch, PE
Vice-President

"OUT-THE-DOOR" PUBLIC PROJECT BUDGETING

PROJECT NAME:

Lakeshore Park Tunnel Replacement

DESIGN

		<u>Estimated Cost</u>	<u>Notes</u>
Design Engineering		\$39,644.10	AECOM PO 97044
ROW Acquisition		\$0.00	
Geotechnical	1%	\$7,965.00	TEC PO 97108
Contingency	10%	\$0.00	
Sub-Total		\$47,609.10	

CONSTRUCTION

Construction Contractor		\$601,961.00	Fonson PO
Construction Engineering		\$48,156.88	AECOM
Crew Days	70	\$56,000.00	AECOM
Material Testing	2%	\$12,039.22	TEC PO
DTE Pole Relocation		\$80,550.87	DTE- Executed
Box Culvert		\$94,978.00	PO 97081 - Northern Concrete
Contingency	10%	\$71,815.71	Estimated
Sub-Total		\$965,501.68	

Grand Total

\$1,013,110.78



January 3, 2023
Mr. Ben Croy, PE
City of Novi
Engineering Department
26300 Lee BeGole Drive
Novi, MI 48375

Reference: Bid Analysis and Contract Award Recommendation
Lakeshore Park Tunnel Replacement
AECOM Project Number 60689147

Dear Mr. Croy:

Attached is the Bid Tabulation for the above referenced project. Eleven bids were received and opened on December 20, 2022. Competition appears to have been very good. Mathematical errors were noted in the second, seventh, and eighth highest bidders. The errors did not impact the order of the bidders. None of the errors impacted the lowest bidder.

The low bid is higher than the Engineer's Estimate for the Project.

Fonson Company, Inc., the low bidder for the project, has completed similar projects for the city and has performed well. The bonding company listed in the Statement of Qualifications has an AM Best rating that exceeds the minimum requirements.

We recommend award of contract for the contract work to Fonson Company, Inc. for \$601,961.00. The amount bid for Inspection (Crew Days) is not included in the award amount.

Please feel free to contact me if you need anything else or wish to discuss the project.

Sincerely,

A handwritten signature in blue ink, appearing to read "Sean Kelsch".

Sean Kelsch, P.E.
Project Manager

cc: Mark Koskinen, AECOM

City of Novi
Lakeshore Tunnel Replacement
Reconstruction
Tabulation of Bids
Bid Opening: 12/20/2022

			Engineers Estimate		Fonson Company, Inc.		Anglin Civil, LLC		Z Contractors, Inc.		DiPonio Contracting, LLC		V.I.L. Construction, Inc.		Blaze Contracting, Inc.		M-K Construction Co., Inc.		C.I. Contracting, Inc.		F.H. Paschen S.M. Nielsen & Associates		Major Contracting Group, Inc.		L. D'Agostini and Sons, Inc.		
Item No.	Item Description	Unit	Total Bid Quantity	Unit Price	Total Bid Cost	Unit Price	Total Bid Cost	Unit Price	Total Bid Cost	Unit Price	Total Bid Cost	Unit Price	Total Bid Cost	Unit Price	Total Bid Cost	Unit Price	Total Bid Cost	Unit Price	Total Bid Cost	Unit Price	Total Bid Cost	Unit Price	Total Bid Cost	Unit Price	Total Bid Cost	Unit Price	Total Bid Cost
1	Mobilization (10%)	LSUM	1	\$48,544.90	\$48,544.90	\$ 59,763.79	\$ 59,763.79	\$ 81,700.00	\$ 81,700.00	\$ 88,000.00	\$ 88,000.00	\$ 85,000.00	\$ 85,000.00	\$ 75,000.00	\$ 75,000.00	\$ 90,042.85	\$ 90,042.85	\$ 68,282.26	\$ 68,282.26	\$ 104,458.00	\$ 104,458.00	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	\$ 130,000.00	\$ 130,000.00
2	Pre-Construction Audio Visual	LSUM	1	\$ 3,000.00	\$3,000.00	\$ 725.00	\$ 725.00	\$ 2,860.00	\$ 2,860.00	\$ 725.00	\$ 725.00	\$ 1,250.00	\$ 1,250.00	\$ 1,400.00	\$ 1,400.00	\$ 2,490.00	\$ 2,490.00	\$ 5,500.00	\$ 5,500.00	\$ 725.00	\$ 725.00	\$ 1,500.00	\$ 1,500.00	\$ 2,763.50	\$ 2,763.50		
3	Maintaining Traffic	LSUM	1	\$ 25,000.00	\$25,000.00	\$ 11,413.00	\$ 11,413.00	\$ 16,000.00	\$ 16,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 100,000.00	\$ 100,000.00	\$ 18,600.00	\$ 18,600.00	\$ 27,500.00	\$ 27,500.00	\$ 14,230.00	\$ 14,230.00	\$ 21,371.00	\$ 21,371.00	\$ 60,000.00	\$ 60,000.00	\$ 48,733.50	\$ 48,733.50
4	Tree and Stump, Rem, 6 inch to 18 inch	Ea	2	\$ 2,500.00	\$5,000.00	\$ 500.00	\$ 1,000.00	\$ 2,667.00	\$ 5,334.00	\$ 500.00	\$ 1,000.00	\$ 650.00	\$ 1,300.00	\$ 600.00	\$ 1,200.00	\$ 3,270.00	\$ 6,540.00	\$ 2,750.00	\$ 5,500.00	\$ 500.00	\$ 1,000.00	\$ 2,125.00	\$ 4,250.00	\$ 750.00	\$ 1,500.00	\$ 393.00	\$ 786.00
5	Structures, Rem	LSUM	1	\$ 40,000.00	\$40,000.00	\$ 17,632.91	\$ 17,632.91	\$ 25,050.00	\$ 25,050.00	\$ 158,000.00	\$ 158,000.00	\$ 50,000.00	\$ 50,000.00	\$ 35,000.00	\$ 35,000.00	\$ 45,600.00	\$ 45,600.00	\$ 179,493.26	\$ 179,493.26	\$ 44,663.00	\$ 44,663.00	\$ 304,296.98	\$ 304,296.98	\$ 275,000.00	\$ 275,000.00	\$ 120,000.00	\$ 120,000.00
6	HMA Surface, Rem	Syd	243	\$ 7.00	\$1,701.00	\$ 12.00	\$ 2,916.00	\$ 16.00	\$ 3,888.00	\$ 30.00	\$ 7,290.00	\$ 17.00	\$ 4,131.00	\$ 15.00	\$ 3,645.00	\$ 25.00	\$ 6,075.00	\$ 49.78	\$ 12,096.54	\$ 28.00	\$ 6,804.00	\$ 21.00	\$ 5,103.00	\$ 21.00	\$ 5,103.00	\$ 36.50	\$ 8,869.50
7	Sidewalk, Rem	Syd	102	\$ 20.00	\$2,040.00	\$ 16.00	\$ 1,632.00	\$ 15.00	\$ 1,530.00	\$ 40.00	\$ 4,080.00	\$ 20.00	\$ 2,040.00	\$ 15.00	\$ 1,530.00	\$ 24.75	\$ 2,524.50	\$ 29.64	\$ 3,023.28	\$ 39.00	\$ 3,978.00	\$ 21.00	\$ 2,142.00	\$ 21.00	\$ 2,142.00	\$ 29.50	\$ 3,009.00
8	Curb and Gutter, Rem	Ft	86	\$ 20.00	\$1,720.00	\$ 8.00	\$ 688.00	\$ 21.00	\$ 1,806.00	\$ 40.00	\$ 3,440.00	\$ 20.00	\$ 1,720.00	\$ 15.00	\$ 1,290.00	\$ 18.75	\$ 1,612.50	\$ 45.05	\$ 3,874.30	\$ 35.00	\$ 3,010.00	\$ 27.00	\$ 2,322.00	\$ 17.00	\$ 1,462.00	\$ 30.00	\$ 2,580.00
9	Guardrail, Rem	Ft	94	\$ 20.00	\$1,880.00	\$ 12.00	\$ 1,128.00	\$ 27.00	\$ 2,538.00	\$ 9.50	\$ 893.00	\$ 9.50	\$ 893.00	\$ 7.00	\$ 658.00	\$ 11.00	\$ 1,034.00	\$ 32.23	\$ 3,029.62	\$ 62.00	\$ 5,828.00	\$ 6.00	\$ 564.00	\$ 10.00	\$ 940.00	\$ 12.00	\$ 1,128.00
10	Fence, Rem	Ft	180	\$ 4.00	\$720.00	\$ 12.00	\$ 2,160.00	\$ 14.00	\$ 2,520.00	\$ 8.25	\$ 1,485.00	\$ 8.25	\$ 1,485.00	\$ 7.00	\$ 1,260.00	\$ 9.60	\$ 1,728.00	\$ 52.75	\$ 9,495.00	\$ 32.00	\$ 5,760.00	\$ 6.00	\$ 1,080.00	\$ 10.00	\$ 1,800.00	\$ 10.50	\$ 1,890.00
11	Fence, Decorative, Salv	Ft	73	\$ 25.00	\$1,825.00	\$ 31.00	\$ 2,263.00	\$ 39.00	\$ 2,847.00	\$ 29.00	\$ 2,117.00	\$ 29.00	\$ 2,117.00	\$ 10.00	\$ 730.00	\$ 33.75	\$ 2,463.75	\$ 26.71	\$ 1,949.83	\$ 31.00	\$ 2,263.00	\$ 8.00	\$ 584.00	\$ 30.00	\$ 2,190.00	\$ 37.50	\$ 2,737.50
12	Fence, Decorative, Replace	Ft	73	\$ 35.00	\$2,555.00	\$ 88.00	\$ 6,424.00	\$ 140.00	\$ 10,220.00	\$ 105.00	\$ 7,665.00	\$ 105.00	\$ 7,665.00	\$ 45.00	\$ 3,285.00	\$ 122.00	\$ 8,906.00	\$ 147.89	\$ 10,795.97	\$ 88.00	\$ 6,424.00	\$ 40.00	\$ 2,920.00	\$ 110.00	\$ 8,030.00	\$ 135.50	\$ 9,891.50
13	Retaining Wall, Wooden, Rem	Ft	111	\$ 40.00	\$4,440.00	\$ 19.00	\$ 2,109.00	\$ 30.00	\$ 3,300.00	\$ 100.00	\$ 11,100.00	\$ 20.00	\$ 2,220.00	\$ 35.00	\$ 3,885.00	\$ 65.00	\$ 7,215.00	\$ 72.05	\$ 7,997.55	\$ 50.00	\$ 5,500.00	\$ 86.00	\$ 9,546.00	\$ 150.00	\$ 16,650.00	\$ 61.00	\$ 6,771.00
14	Hand Rail, Rem	Ft	104	\$ 50.00	\$5,200.00	\$ 9.00	\$ 936.00	\$ 11.00	\$ 1,144.00	\$ 10.00	\$ 1,040.00	\$ 20.00	\$ 2,080.00	\$ 9.00	\$ 936.00	\$ 7.65	\$ 795.60	\$ 5.00	\$ 520.00	\$ 6.00	\$ 624.00	\$ 8.00	\$ 832.00	\$ 150.00	\$ 15,600.00	\$ 13.50	\$ 1,404.00
15	Excavation, Earth	Cyd	176	\$ 15.00	\$2,640.00	\$ 28.00	\$ 4,928.00	\$ 47.00	\$ 8,272.00	\$ 30.00	\$ 5,280.00	\$ 60.00	\$ 10,560.00	\$ 35.00	\$ 6,160.00	\$ 63.00	\$ 11,088.00	\$ 108.80	\$ 19,148.80	\$ 87.00	\$ 15,312.00	\$ 58.00	\$ 10,208.00	\$ 75.00	\$ 13,200.00	\$ 59.00	\$ 10,384.00
16	Subgrade Undercutting, Special (1 x 3)	Cyd	100	\$ 50.00	\$5,000.00	\$ 67.00	\$ 6,700.00	\$ 105.00	\$ 10,500.00	\$ 95.00	\$ 9,500.00	\$ 60.00	\$ 6,000.00	\$ 50.00	\$ 5,000.00	\$ 148.00	\$ 14,800.00	\$ 78.00	\$ 7,800.00	\$ 157.00	\$ 15,700.00	\$ 95.00	\$ 9,500.00	\$ 80.00	\$ 8,000.00	\$ 145.50	\$ 14,550.00
17	Roadway Grading	Sta	0.83	\$ 12,000.00	\$9,960.00	\$ 4,923.00	\$ 4,086.09	\$ 4,700.00	\$ 3,901.00	\$ 8,000.00	\$ 6,640.00	\$ 10,000.00	\$ 8,300.00	\$ 7,500.00	\$ 6,225.00	\$ 4,350.00	\$ 3,610.50	\$ 11,441.50	\$ 9,496.45	\$ 6,168.00	\$ 5,119.44	\$ 4,248.00	\$ 3,525.84	\$ 8,200.00	\$ 6,806.00	\$ 8,500.00	\$ 7,055.00
18	Erosion Control, Silt Fence	Ft	500	\$ 5.00	\$2,500.00	\$ 3.00	\$ 1,500.00	\$ 8.00	\$ 4,000.00	\$ 3.00	\$ 1,500.00	\$ 3.00	\$ 1,500.00	\$ 2.50	\$ 1,250.00	\$ 9.25	\$ 4,625.00	\$ 6.50	\$ 3,250.00	\$ 4.00	\$ 2,000.00	\$ 7.00	\$ 3,500.00	\$ 6.00	\$ 3,000.00	\$ 4.50	\$ 2,250.00
19	Aggregate Base, 21AA, Limestone, 9 inch	Syd	288	\$ 25.00	\$7,200.00	\$ 18.00	\$ 5,184.00	\$ 26.00	\$ 7,488.00	\$ 27.00	\$ 7,776.00	\$ 35.00	\$ 10,080.00	\$ 25.00	\$ 7,200.00	\$ 30.25	\$ 8,712.00	\$ 33.15	\$ 9,547.20	\$ 48.00	\$ 13,824.00	\$ 20.00	\$ 5,760.00	\$ 39.00	\$ 11,232.00	\$ 48.00	\$ 13,824.00
20	Aggregate Base, 8 inch (Class II Granular)	Syd	69	\$ 13.00	\$897.00	\$ 44.00	\$ 3,036.00	\$ 19.00	\$ 1,311.00	\$ 70.00	\$ 4,830.00	\$ 80.00	\$ 5,520.00	\$ 20.00	\$ 1,380.00	\$ 72.25	\$ 4,985.25	\$ 147.05	\$ 10,146.45	\$ 34.00	\$ 2,346.00	\$ 73.00	\$ 5,037.00	\$ 36.00	\$ 2,484.00	\$ 71.00	\$ 4,899.00
21	Aggregate Base, 4 inch (Class II Granular)	Syd	137	\$ 20.00	\$2,740.00	\$ 13.00	\$ 1,781.00	\$ 10.00	\$ 1,370.00	\$ 17.00	\$ 2,329.00	\$ 60.00	\$ 8,220.00	\$ 16.00	\$ 2,192.00	\$ 69.00	\$ 9,453.00	\$ 73.95	\$ 10,131.15	\$ 14.00	\$ 1,918.00	\$ 20.00	\$ 2,740.00	\$ 26.00	\$ 3,562.00	\$ 54.50	\$ 7,466.50
22	Aggregate, 6A	Cyd	8	\$ 150.00	\$1,200.00	\$ 160.00	\$ 1,280.00	\$ 78.00	\$ 624.00	\$ 100.00	\$ 800.00	\$ 140.00	\$ 1,120.00	\$ 60.00	\$ 480.00	\$ 71.25	\$ 570.00	\$ 1,300.00	\$ 10,400.00	\$ 296.00	\$ 2,368.00	\$ 110.00	\$ 880.00	\$ 180.00	\$ 1,440.00	\$ 75.00	\$ 600.00
23	Tensar TX5 Geogrid	Syd	288	\$ 5.00	\$1,440.00	\$ 9.00	\$ 2,592.00	\$ 6.00	\$ 1,728.00	\$ 6.50	\$ 1,872.00	\$ 7.00	\$ 2,016.00	\$ 6.00	\$ 1,728.00	\$ 5.35	\$ 1,540.80	\$ 6.77	\$ 1,949.76	\$ 20.00	\$ 5,760.00	\$ 9.00	\$ 2,592.00	\$ 18.00	\$ 5,184.00	\$ 13.00	\$ 3,744.00
24	HMA, 3EML	Ton	45	\$ 150.00	\$6,750.00	\$ 240.00	\$ 10,800.00	\$ 314.00	\$ 14,130.00	\$ 315.00	\$ 14,175.00	\$ 360.00	\$ 16,200.00	\$ 250.00	\$ 11,250.00	\$ 366.00	\$ 16,470.00	\$ 436.37	\$ 19,636.65	\$ 370.00	\$ 16,650.00	\$ 314.84	\$ 14,167.80	\$ 240.00	\$ 10,800.00	\$ 443.00	\$ 19,935.00
25	HMA, 5EML	Ton	45	\$ 150.00	\$6,750.00	\$ 380.00	\$ 17,100.00	\$ 332.00	\$ 14,940.00	\$ 325.00	\$ 14,625.00	\$ 360.00	\$ 16,200.00	\$ 250.00	\$ 11,250.00	\$ 377.00	\$ 16,965.00	\$ 436.30	\$ 19,633.50	\$ 413.00	\$ 18,585.00	\$ 314.84	\$ 14,167.80	\$ 380.00	\$ 17,100.00	\$ 443.00	\$ 19,935.00
26	Shld, Cl II, 6 inch	Syd	11	\$ 40.00	\$440.00	\$ 67.00	\$ 737.00	\$ 91.00	\$ 1,001.00	\$ 104.00	\$ 1,144.00	\$ 120.00	\$ 1,320.00	\$ 35.00	\$ 385.00	\$ 439.00	\$ 4,829.00	\$ 59.09									

BID
For
Lakeshore Park Tunnel Replacement

Bid of Fonson Company, Inc. hereinafter called Bidder,
organized and existing under the laws of or a resident of the State of Michigan, doing business as
A Corporation *

*Insert as applicable: "a corporation", "a partnership" or "an individual".

TO THE CITY OF NOVI, MICHIGAN, hereinafter called OWNER:

The undersigned as Bidder hereby declares: that this Bid is made in good faith without fraud or collusion with any person or persons bidding on the same Contract; that the Bidder has read and examined the Advertisement for Bids, Instructions to Bidders, Bid, General Conditions, Supplementary Conditions, Agreement, Forms of Bond, Specifications and Drawings, as prepared by the ENGINEER, and understands all of the same; that the Bidder or its representative has made personal investigation at the sites of the work and has become fully familiar with regard to the conditions to be met in the execution of this Contract, and the undersigned proposes to furnish all labor, materials, tools, power, transportation, and construction equipment necessary for the construction of the Project and performing related work in full accordance with the aforesaid Contract Documents, including any and all Addenda officially issued, their receipt of which is hereby acknowledged:

Addendum No.
#1

Addendum Date
December 9, 2022

The Contract will be awarded to the lowest responsive, responsible Bidder based on the unit prices for all Work specified.

The Bidder agrees to complete the Project for the following unit prices:

BASE BID					
Item No.	Item Description	Unit	Quantity	Unit Price	Total Price
1	Mobilization (10% Max.)	LSUM	1	\$ 59,763.79	\$ 59,763.79
2	Pre-Construction Audio Visual	LSUM	1	\$ 725.00	\$ 725.00
3	Maintaining Traffic	LSUM	1	\$ 11,413.00	\$ 11,413.00
4	Tree and Stump, Rem, 6 inch to 18 inch	Ea	2	\$ 500.00	\$ 1,000.00
5	Structures, Rem	LSUM	1	\$ 17,632.91	\$ 17,632.91
6	HMA Surface, Rem	Syd	243	\$ 12.00	\$ 2,916.00



CITY OF NOVI

BASE BID					
Item No.	Item Description	Unit	Quantity	Unit Price	Total Price
7	Sidewalk, Rem	Syd	102	\$ 16.00	\$ 1,632.00
8	Curb and Gutter, Rem	Ft	86	\$ 8.00	\$ 688.00
9	Guardrail, Rem	Ft	94	\$ 12.00	\$ 1,128.00
10	Fence, Rem	Ft	180	\$ 12.00	\$ 2,160.00
11	Fence, Decorative, Salv	Ft	73	\$ 31.00	\$ 2,263.00
12	Fence, Decorative, Replace	Ft	73	\$ 88.00	\$ 6,424.00
13	Retaining Wall, Wooden, Rem	Ft	111	\$ 19.00	\$ 2,109.00
14	Hand Rail, Rem	Ft	104	\$ 9.00	\$ 936.00
15	Excavation, Earth	Cyd	176	\$ 28.00	\$ 4,928.00
16	Subgrade Undercutting, Special (1 x 3)	Cyd	100	\$ 67.00	\$ 6,700.00
17	Roadway Grading	Sta	0.83	\$ 4,923.00	\$ 4,086.09
18	Erosion Control, Silt Fence	Ft	500	\$ 3.00	\$ 1,500.00
19	Aggregate Base, 21AA, Limestone, 9 inch	Syd	288	\$ 18.00	\$ 5,184.00
20	Aggregate Base, 8 inch (Class II Granular)	Syd	69	\$ 44.00	\$ 3,036.00
21	Aggregate Base, 4 inch (Class II Granular)	Syd	137	\$ 13.00	\$ 1,781.00
22	Aggregate, 6A	Cyd	8	\$ 160.00	\$ 1,280.00
23	Tensar TX5 Geogrid	Syd	288	\$ 9.00	\$ 2,592.00
24	HMA, 3EML	Ton	45	\$ 240.00	\$ 10,800.00
25	HMA, 5 EML	Ton	45	\$ 380.00	\$ 17,100.00
26	Shld, Cl II, 6 inch	Syd	11	\$ 67.00	\$ 737.00
27	Fence, Chain Link, 72 inch	Ft	181	\$ 55.00	\$ 9,955.00
28	Lockable Gate	Ea	2	\$ 1,750.00	\$ 3,500.00
29	Excavation, Fdn	Cyd	1,911	\$ 19.00	\$ 36,309.00
30	Backfill, Structure, CIP	Cyd	1,061	\$ 46.00	\$ 48,806.00
31	Culv, Precast Conc Box, 10 foot by 8 foot, Install	Ft	62	\$ 2,310.00	\$ 143,220.00
32	Culv, Bedding, Box Culv	Cyd	86	\$ 106.00	\$ 9,116.00
33	Water Main Protection Cradle	LSUM	1	\$ 4,452.00	\$ 4,452.00
34	Membrane, Preformed Waterproofing	Sft	1,922	\$ 4.75	\$ 9,129.50
35	Joint Waterproofing	Sft	45	\$ 60.00	\$ 2,700.00
36	Underdrain, Fdn, 4 inch	Ft	272	\$ 10.00	\$ 2,720.00
37	Pipe Sleeve, 8 inch	Ft	2	\$ 137.00	\$ 274.00
38	Dr Structure, 60 inch dia, Special	Ea	1	\$ 5,560.00	\$ 5,560.00



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BASE BID					
Item No.	Item Description	Unit	Quantity	Unit Price	Total Price
39	Dr Structure Cover, Type Q	Ea	1	\$ 665.00	\$ 665.00
40	DPS Structure Cover, Adj, Case 1	Ea	1	\$ 872.00	\$ 872.00
41	DPS Structure Cover, Adj, Case 2	Ea	1	\$ 254.00	\$ 254.00
42	Slotted Drain	Ft	21	\$ 156.00	\$ 3,276.00
43	Underdrain, Subgrade, Open-Graded, 6 inch	Ft	183	\$ 21.00	\$ 3,843.00
44	Underdrain, Subbase, 6 inch	Ft	203	\$ 15.00	\$ 3,045.00
45	Conc, Grade 3500	Cyd	50	\$ 1,230.00	\$ 61,500.00
46	Reinforcement, Steel, Epoxy Coated	Lb	7,853	\$ 2.65	\$ 20,810.45
47	Curb and Gutter, Conc, Det F2	Ft	86	\$ 65.00	\$ 5,590.00
48	Sidewalk, Conc, 4 inch	Sft	1,703	\$ 10.00	\$ 17,030.00
49	Galvanized Hand Rail	Ft	91	\$ 205.00	\$ 18,655.00
50	Guardrail Approach Terminal, Type 2M	Ea	1	\$ 6,475.00	\$ 6,475.00
51	Guardrail, Type MGS-8	Ft	35	\$ 111.00	\$ 3,885.00
52	Surface Restoration	LSUM	1	\$ 7,504.76	\$ 7,504.76
53	Sign, Type III, Erect, Salv	Ea	4	\$ 75.00	\$ 300.00
54	Pavt Mrkg, Sprayable Thermopl, 4 inch, White	Ft	165	\$ 5.15	\$ 849.75
55	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow	Ft	165	\$ 5.15	\$ 849.75
56	Pavt Mrkg, Waterborne, Bike Thru Arrow Sym	Ea	1	\$ 100.00	\$ 100.00
57	Pavt Mrkg, Waterborne, Bike, Small Sym	Ea	1	\$ 100.00	\$ 100.00
58	Pavt Mrkg, Waterborne, Bike, Small Sym	Ea	1	\$ 100.00	\$ 100.00
59	Crew Day	Day	70.00	\$800.00	\$ 56,000.00
TOTAL BASE BID PRICE:				\$	657,961.00

If the foregoing Bid shall be accepted by the OWNER, the undersigned agrees to enter into the attached form of Agreement within ten (10) days after receiving notice of such acceptance, will furnish the OWNER satisfactory bonds and certificates of insurance coverage, and will complete the Project, at the price and within the time stated in this Bid.

The undersigned further agrees that if the foregoing Bid shall be accepted, work will commence immediately after the Contract has been awarded, the Agreement executed, and a Notice to Proceed received.

Substantial Completion shall be by May 25, 2023.

Final Completion shall be by June 9, 2023.



CITY OF NOVI

Substantial completion shall include all work, excepting final surface restoration.

The undersigned attaches hereto its Bid security, as required by the Advertisement for Bids and Instructions to Bidders. The undersigned agrees that in case it shall fail to fulfill its obligations under the foregoing Bid, and/or shall fail to furnish bonds, as specified, the OWNER may, at its option determine that the undersigned has abandoned its rights and interests in such Contract and that its Bid security accompanying its Bid; has been forfeited to the said OWNER, but otherwise the Bid security shall be returned to the undersigned upon the execution of the Contract and the acceptance of the bonds.

The undersigned also agrees that for each and every calendar day that he may be in default of any of the completion times listed above, the OWNER will suffer a damage of One Thousand Three Hundred Dollars (\$1,300.00) per calendar day, and said OWNER shall be compensated therefore at the rate as liquidated damages in accordance with the Agreement.

In submitting this Bid, it is understood that the right is reserved by the OWNER to accept any bid, to reject any or all Bids, and to waive irregularities in bidding in the interest of the OWNER.

SUBMITTED on 12/20/2022
Date*

7644 Whitmore Lake
Street*

Brighton, MI 48116
City, State, ZIP*

810-217-4528
Telephone Number*

810-231-5404
Facsimile Number*

BY: Fonson Company Inc.
Name of Bidder*

[Signature]
Signature

Kirk Cooley, General Manager
Name and Title of Signatory*

*Typed or printed in ink.



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