



**CITY OF NOVI CITY COUNCIL  
JULY 11, 2022**

**SUBJECT:** Consideration of approval to award the construction contract to Pamar Enterprises, Inc., the low bidder, for the 2022 Asbestos Cement Water Main Replacement project, in the amount of \$6,532,828.15, and amend the budget.

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

<b>EXPENDITURE REQUIRED</b>	<b>\$ 6,532,828.15</b>
<b>AMOUNT BUDGETED</b>	<b>\$ 66,564.00 FY 2021-22 BA Rollover</b> <b>\$ 4,500,000.00 FY 2022-23 Budget</b> <b>\$ 4,566,564.00 Total</b>
<b>APPROPRIATION REQUIRED</b>	<b>\$ 2,895,097.00</b>
<b>LINE ITEM NUMBER</b>	<b>592-592.00-976.082</b>

**BACKGROUND INFORMATION:**

The City has approximately 32 miles of asbestos cement (AC) water main in the water supply network, many of which experience breaks. The City's 2017 Water System Asset Management Plan recommends replacement of all AC pipe to avoid increased breaks as the pipes reach or exceed their expected design life. The City's engineering consultant, Spalding DeDecker, recently developed an asset management plan for AC water main replacement. The plan prioritizes segments of water main based on existing main conditions, probability of failure and consequence of failure. This project, which will replace approximately 3 miles of AC water main, begins a phased multi-year program aimed at replacing all AC water main throughout the city.

This year's program will be in Meadowbrook Manor subdivision, Meadowbrook Lake subdivision, and along Center Street. Following award of the construction contract, existing asbestos cement water main will be abandoned, new ductile iron water main and water service connections will be installed by open cut, and roadways and other disturbed surfaces will be restored. Work is expected to be completed by the fall of 2023.

Spalding DeDecker assisted the Engineering Division with developing the engineering design plans for this project. The plans were advertised for public bids on June 2, 2022. Five (5) bids were received and opened on June 24, 2022, following the solicitation period. Pamar Enterprises, Inc., the low bidder, is recommended in the best interest of the City, as it is responsive and complies with all requirements of the bidding instructions. The award recommendation letter including the bid tabulation is attached. Higher than expected costs, primarily for water main and water system parts, are the result of material shortages and inflation. A summary of the bids is as follows:

<b>Contractor</b>	<b>Total Program Bid (includes Crew Days) *</b>
Pamar Enterprises	\$ 6,716,928.15
Bricco Excavating	\$ 6,979,426.00
L. D'Agostini & Sons	\$ 8,483,549.00
Major Contracting Group	\$ 8,981,760.24
Stante Excavating	\$11,778,828.00

**\*Crew Days are included to compare bids, but not included in the award**

The contract administration and geotechnical engineering services related to this project will be awarded to the following pre-qualified firms using the fee percentages in the Agreements for Professional Engineering Services and Geotechnical Engineering Services for Public Projects.

<b>Spalding DeDecker</b>		
Contract Administration	4.5% of the construction award (\$6,532,828.15 X 0.045)	\$ 293,977.27
Crew Days	\$700 daily inspection fee x 263 days	\$ 184,100.00

<b>Testing Engineers &amp; Consultants, Inc. (TEC)</b>		
Material testing services	1.9% of the construction award (\$6,532,828.15 X 0.019)	\$ 124,123.73

**RECOMMENDED ACTION:** Approval to award the construction contract to Pamar Enterprises, Inc., the low bidder, for the 2022 Asbestos Cement Water Main Replacement project, in the amount of \$6,532,828.15, and amend the budget.

**RESOLUTION**

NOW, THEREFORE BE IT RESOLVED  
that the following Budget Amendment  
for the construction contract to Pamar Enterprises, Inc.  
for the 2022 Absbestos Cement Water Main Replacement project  
is authorized:

**INCREASE  
(DECREASE)**

<b>WATER &amp; SEWER FUND</b>
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**APPROPRIATIONS**

Capital Outlay	\$ 2,895,097
<b>TOTAL APPROPRIATIONS</b>	<b>\$ 2,895,097</b>
<b>Net Increase (Decrease) to Fund Balance</b>	<b>\$ (2,895,097)</b>

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 July 11, 2022.

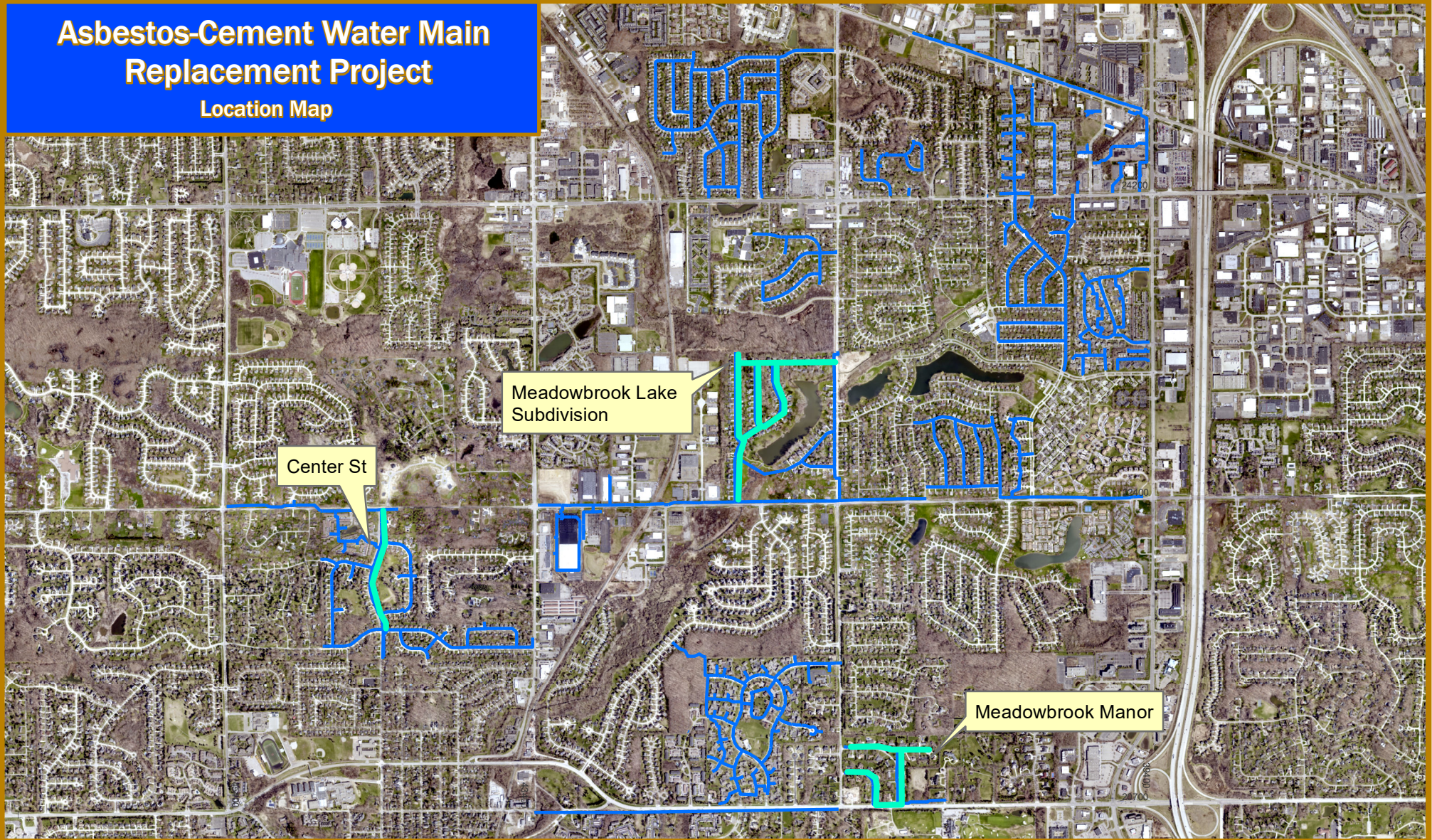
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Cortney Hanson  
City Clerk



# Asbestos-Cement Water Main Replacement Project

## Location Map



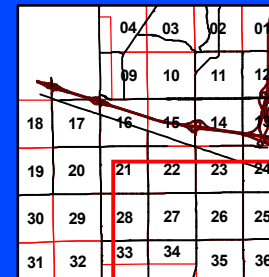
Map Author: Rebecca Runkel  
 Date: 1/10/22  
 Project: AC WM Replacement  
 Version #: 2.0

### 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.

### Map Legend

- Asbestos Cement Water Main
- Proposed Replacement Segment Asbestos Cement Water Main



## City of Novi

Engineering Division  
 Department of Public Works  
 26300 Lee BeGole Drive  
 Novi, MI 48375  
[cityofnovi.org](http://cityofnovi.org)





June 27, 2022

Mr. Ben Croy  
City Engineer  
City of Novi  
26300 Lee BeGole Drive  
Novi, Michigan 48375

Re: **Recommendation for Award**  
2022 Asbestos Cement Watermain Replacement  
SDA Project No.: Job No NV21005

Dear Mr. Croy:

On June 24, 2022 at 10:00 a.m., construction bids were opened and publicly read at the City of Novi Civic Center for the 2022 Asbestos Cement Watermain Replacement project. The project includes removing and abandoning existing asbestos cement watermain; installing new ductile iron watermain by open cut; installing water service connections; and removing and restoring of roadways, landscaping, and other disturbed surfaces.

The City Clerk's office received five (5) sealed bids for this project, with each bid considered to be responsive having submitted a bid compliant with all requirements. The apparent low bidder, Pamar Enterprises Inc., submitted a total bid of \$6,716,928.15. Following the bid opening, Spalding DeDecker reviewed all of the bids received, verified the calculations, and prepared the bid tabulation for the project (attached).

Based on a review of experience and references provided, Spalding DeDecker finds that Pamar Enterprises Inc. is qualified to perform the required construction.

**It is our recommendation that the project be awarded to the lowest responsive bidder, Pamar Enterprises Inc. in the amount of \$6,532,828.15, which is the total bid of \$6,716,928.15 minus \$184,100.00 for crew days bid.**

Upon award by the City Council, our office will coordinate the completion of the Contract Agreement, Bonds, and Insurance information with Pamar Enterprises Inc.

Very Truly Yours,  
**SPALDING DEDECKER**



Taylor E. Reynolds, PE  
Public Engineering Project Coordinator  
Encl: Bid Tabulation

**BID TABULATION - 2022 ASBESTOS CEMENT WATERMAIN REPLACEMENT**  
**CITY OF NOVI**

5 Bids received, opened 06/24/2022

Project No. NV21005

By: NBG

Reviewed: TER

CATEGORY 1 - CENTER STREET				PAMAR ENTERPRISES		BRICCO EXCAVATING		L. D'AGOSTINI & SONS	
No		QUANTITY	UNIT	UNIT PRICE (\$)	AMOUNT (\$)	UNIT PRICE (\$)	AMOUNT (\$)	UNIT PRICE (\$)	AMOUNT (\$)
1	Mobilization, Max	1	LS	\$80,000.00	\$ 80,000.00	\$65,000.00	\$ 65,000.00	\$100,000.00	\$ 100,000.00
2	Pre-Construction Audio Visual	1	LS	\$750.00	\$ 750.00	\$25,000.00	\$ 25,000.00	\$1,000.00	\$ 1,000.00
3	Soil Erosion Control Measures	1	LS	\$10,000.00	\$ 10,000.00	\$10,000.00	\$ 10,000.00	\$10,000.00	\$ 10,000.00
4	Exploratory Investigation, Vertical	300	Ft	\$35.00	\$ 10,500.00	\$40.00	\$ 12,000.00	\$100.00	\$ 30,000.00
5	Clearing	1	Acre	\$16,000.00	\$ 16,000.00	\$5,000.00	\$ 5,000.00	\$11,000.00	\$ 11,000.00
6	Pavt, Rem	35	Syd	\$18.00	\$ 630.00	\$25.00	\$ 875.00	\$35.00	\$ 1,225.00
7	HMA Cold Milling	4,374	Syd	\$3.50	\$ 15,309.00	\$6.00	\$ 26,244.00	\$3.00	\$ 13,122.00
8	HMA Surface, Rem, Modified	5,025	Syd	\$5.00	\$ 25,125.00	\$6.00	\$ 30,150.00	\$7.00	\$ 35,175.00
9	Curb and Gutter, Conc, Rem	629	Ft	\$12.00	\$ 7,548.00	\$7.00	\$ 4,403.00	\$7.00	\$ 4,403.00
10	Excavtion, Earth	50	Cyd	\$55.00	\$ 2,750.00	\$40.00	\$ 2,000.00	\$40.00	\$ 2,000.00
11	Subgrade Undercut (As-Needed)	25	Cyd	\$78.00	\$ 1,950.00	\$55.00	\$ 1,375.00	\$100.00	\$ 2,500.00
12	Str Rehab Type 2: Structure Cover Adjust	3	Ea	\$1,450.00	\$ 4,350.00	\$350.00	\$ 1,050.00	\$1,600.00	\$ 4,800.00
13	Aggregate Base, 8 inch, Limestone	5,060	Syd	\$15.00	\$ 75,900.00	\$14.00	\$ 70,840.00	\$22.00	\$ 111,320.00
14	HMA, 4EML	1,441	Ton	\$112.15	\$ 161,608.15	\$122.00	\$ 175,802.00	\$170.00	\$ 244,970.00
15	HMA, 5EML	1,087	Ton	\$124.85	\$ 135,711.95	\$118.00	\$ 128,266.00	\$190.00	\$ 206,530.00
16	Conc Pavt with Integral Curb, Nonreinf, 9 Inch	35	Syd	\$110.00	\$ 3,850.00	\$110.00	\$ 3,850.00	\$140.00	\$ 4,900.00
17	Curb and Gutter, Conc, Modified	629	Ft	\$35.00	\$ 22,015.00	\$35.00	\$ 22,015.00	\$47.00	\$ 29,563.00
18	Mailbox, Remove and Replace	5	Ea	\$200.00	\$ 1,000.00	\$100.00	\$ 500.00	\$200.00	\$ 1,000.00
19	Post, Mailbox	64	Lf	\$25.00	\$ 1,600.00	\$15.00	\$ 960.00	\$29.00	\$ 1,856.00
20	Sewer, Rem, Less than 24 Inch	128	Ft	\$10.00	\$ 1,280.00	\$12.00	\$ 1,536.00	\$16.00	\$ 2,048.00
21	Sewer, CI A, 12 Inch Tr Det E	112	Ft	\$70.00	\$ 7,840.00	\$60.00	\$ 6,720.00	\$75.00	\$ 8,400.00
22	Sewer, CI A, 18 Inch Tr Det E	16	Ft	\$100.00	\$ 1,600.00	\$70.00	\$ 1,120.00	\$103.00	\$ 1,648.00
23	Sanitary Sewer, PVC, 6 Inch, Tr Det B2	100	Ft	\$60.00	\$ 6,000.00	\$25.00	\$ 2,500.00	\$100.00	\$ 10,000.00
24	Water Structure, Rem	2	Ea	\$900.00	\$ 1,800.00	\$500.00	\$ 1,000.00	\$500.00	\$ 1,000.00
25	Hydrant, Rem	6	Ea	\$900.00	\$ 5,400.00	\$350.00	\$ 2,100.00	\$1,000.00	\$ 6,000.00
26	Water Main, Rem	361	Lf	\$65.00	\$ 23,465.00	\$45.00	\$ 16,245.00	\$38.00	\$ 13,718.00
27	Water Main, Abandon	2,463	Lf	\$1.00	\$ 2,463.00	\$5.00	\$ 12,315.00	\$20.00	\$ 49,260.00
28	Water Main, 8 Inch, Open Cut	460	Lf	\$195.00	\$ 89,700.00	\$263.00	\$ 120,980.00	\$170.00	\$ 78,200.00
29	Water Main, 16 Inch, Open Cut	2,318	Lf	\$279.00	\$ 646,722.00	\$293.00	\$ 679,174.00	\$260.00	\$ 602,680.00
30	Water Main, 20 Inch, Open Cut	450	Lf	\$350.00	\$ 157,500.00	\$423.00	\$ 190,350.00	\$350.00	\$ 157,500.00
31	Gate Valve and Well, 8 Inch, Modified	4	Ea	\$9,000.00	\$ 36,000.00	\$9,300.00	\$ 37,200.00	\$7,500.00	\$ 30,000.00
32	Gate Valve and Well, 16 Inch, Modified	6	Ea	\$11,000.00	\$ 66,000.00	\$19,000.00	\$ 114,000.00	\$17,000.00	\$ 102,000.00
33	In Line Stop, 8 Inch	2	Ea	\$500.00	\$ 1,000.00	\$4,300.00	\$ 8,600.00	\$7,000.00	\$ <b>14,000.00</b>
34	In Line Stop, 16 Inch	2	Ea	\$800.00	\$ 1,600.00	\$9,550.00	\$ 19,100.00	\$18,000.00	\$ 36,000.00
35	In Line Stop, 20 Inch	3	Ea	\$1,000.00	\$ 3,000.00	\$9,850.00	\$ 29,550.00	\$20,000.00	\$ 60,000.00
36	Hydrant Assembly	6	Ea	\$8,600.00	\$ 51,600.00	\$14,500.00	\$ 87,000.00	\$11,500.00	\$ 69,000.00
37	Water Main, Connect New 20 inch to Existing 16 inch	1	Ea	\$14,500.00	\$ 14,500.00	\$19,000.00	\$ 19,000.00	\$20,000.00	\$ 20,000.00
38	Water Main, Connect New 16 inch to Existing 16 inch	1	Ea	\$13,000.00	\$ 13,000.00	\$17,500.00	\$ 17,500.00	\$9,000.00	\$ 9,000.00
39	Water Main, Connect New 16 inch to Existing 12 inch	1	Ea	\$11,500.00	\$ 11,500.00	\$16,500.00	\$ 16,500.00	\$9,500.00	\$ 9,500.00
40	Water Main, Connect New 8 inch to Existing 8 inch	7	Ea	\$9,000.00	\$ 63,000.00	\$9,800.00	\$ 68,600.00	\$6,500.00	\$ 45,500.00
41	Water Serv, 1 inch	1,195	Lf	\$55.00	\$ 65,725.00	\$55.00	\$ 65,725.00	\$140.00	\$ <b>167,300.00</b>
42	Temporary Traffic Control	1	LS	\$25,000.00	\$ 25,000.00	\$45,000.00	\$ 45,000.00	\$20,000.00	\$ 20,000.00
43	Surface Restoration	1	LS	\$15,000.00	\$ 15,000.00	\$65,000.00	\$ 65,000.00	\$65,000.00	\$ 65,000.00

44	Crew Days	\$700.00	Ea	75	\$ 52,500.00	69	\$ 48,300.00	108	\$ 75,600.00
45	RCOC Permit Allowance	1	DLR	\$1,000.00	\$ 1,000.00	\$1,000.00	\$ 1,000.00	\$1,000.00	\$ 1,000.00
<b>SUBTOTAL CENTER STREET</b>					<b>\$ 1,940,792.10</b>	<b>\$ 2,261,445.00</b>	<b>* \$ 2,469,718.00</b>		

CATEGORY 2 - MEADOWBROOK LAKE				PAMAR ENTERPRISES		BRICCO EXCAVATING		L. D'AGOSTINI & SONS	
No		QUANTITY	UNIT	UNIT PRICE (\$)	AMOUNT (\$)	UNIT PRICE (\$)	AMOUNT (\$)	UNIT PRICE (\$)	AMOUNT (\$)
46	Mobilization, Max	1	LS	\$132,000.00	\$ 132,000.00	\$65,000.00	\$ 65,000.00	\$151,000.00	\$ 151,000.00
47	Pre-Construction Audio Visual	1	LS	\$1,000.00	\$ 1,000.00	\$25,000.00	\$ 25,000.00	\$2,000.00	\$ 2,000.00
48	Soil Erosion Control Measures	1	LS	\$18,000.00	\$ 18,000.00	\$18,500.00	\$ 18,500.00	\$25,000.00	\$ 25,000.00
49	Exploratory Investigation, Vertical	100	Ft	\$35.00	\$ 3,500.00	\$40.00	\$ 4,000.00	\$100.00	\$ 10,000.00
50	Clearing	1	Acre	\$16,000.00	\$ 16,000.00	\$5,000.00	\$ 5,000.00	\$11,000.00	\$ 11,000.00
51	Tree, Rem, 6 inch to 18 inch	3	Ea	\$500.00	\$ 1,500.00	\$1,500.00	\$ 4,500.00	\$700.00	\$ 2,100.00
52	HMA Cold Milling	8,266	Syd	\$3.50	\$ 28,931.00	\$6.00	\$ 49,596.00	\$3.00	\$ 24,798.00
53	HMA Surface, Rem, Modified	8,277	Syd	\$5.00	\$ 41,385.00	\$6.00	\$ 49,662.00	\$7.00	\$ 57,939.00
54	Curb and Gutter, Conc, Rem	23	Ft	\$19.00	\$ 437.00	\$15.00	\$ 345.00	\$7.00	\$ 161.00
55	Driveway, Rem, Modified	673	Syd	\$16.00	\$ 10,768.00	\$10.00	\$ 6,730.00	\$18.00	\$ 12,114.00
56	Sidewalk, Rem	22	Syd	\$12.00	\$ 264.00	\$19.00	\$ 418.00	\$10.00	\$ 220.00
57	Excavation, Earth	245	Cyd	\$55.00	\$ 13,475.00	\$40.00	\$ 9,800.00	\$40.00	\$ 9,800.00
58	Subgrade Undercut (As-Needed)	25	Cyd	\$78.00	\$ 1,950.00	\$55.00	\$ 1,375.00	\$100.00	\$ 2,500.00
59	Str Rehab Type 2: Structure Cover Adjust	3	Ea	\$1,450.00	\$ 4,350.00	\$350.00	\$ 1,050.00	\$1,600.00	\$ 4,800.00
60	Aggregate Base, 6 Inch, Limestone	22	Syd	\$14.00	\$ 308.00	\$16.00	\$ 352.00	\$26.00	\$ 572.00
61	Aggregate Base, 8 Inch, Limestone	9,838	Syd	\$15.00	\$ 147,570.00	\$14.00	\$ 137,732.00	\$30.00	\$ 295,140.00
62	HMA, Drive Approach	26	Ton	\$225.00	\$ 5,850.00	\$275.00	\$ 7,150.00	\$260.00	\$ 6,760.00
63	HMA, 4EML	1,065	Ton	\$112.15	\$ 119,439.75	\$122.00	\$ 129,930.00	\$170.00	\$ 181,050.00
64	HMA, 5EML	1,955	Ton	\$124.85	\$ 244,081.75	\$118.00	\$ 230,690.00	\$195.00	\$ 381,225.00
65	Curb and Gutter, Conc, Modified	23	Ft	\$55.00	\$ 1,265.00	\$35.00	\$ 805.00	\$45.00	\$ 1,035.00
66	Shld Gutter, Conc, Modified	1	Ea	\$650.00	\$ 650.00	\$650.00	\$ 650.00	\$850.00	\$ 850.00
67	Spillway, Conc	3	Ft	\$150.00	\$ 450.00	\$200.00	\$ 600.00	\$200.00	\$ 600.00
68	Driveway, Nonreinf Conc, 6 Inch	583	Syd	\$55.00	\$ 32,065.00	\$55.00	\$ 32,065.00	\$70.00	\$ 40,810.00
69	Sidewalk, Conc 4 inch	104	Sft	\$7.00	\$ 728.00	\$10.00	\$ 1,040.00	\$9.00	\$ 936.00
70	ADA detectable Warning Plate	20	Sft	\$35.00	\$ 700.00	\$35.00	\$ 700.00	\$45.00	\$ 900.00
71	ADA ramp, Conc, 6 inch	123	Sft	\$15.00	\$ 1,845.00	\$20.00	\$ 2,460.00	\$20.00	\$ 2,460.00
72	Mailbox, Remove and Replace	43	Ea	\$200.00	\$ 8,600.00	\$100.00	\$ 4,300.00	\$200.00	\$ 8,600.00
73	Post, Mailbox	352	Lf	\$25.00	\$ 8,800.00	\$15.00	\$ 5,280.00	\$25.00	\$ 8,800.00
74	Guardrail, Rem	38	Ft	\$5.00	\$ 190.00	\$15.00	\$ 570.00	\$10.00	\$ 380.00
75	Guardrail Post, Furn and Install, 72 inch	4	Ea	\$225.00	\$ 900.00	\$300.00	\$ 1,200.00	\$5.00	\$ 20.00
76	Guardrail, Type A	38	Ft	\$59.00	\$ 2,242.00	\$45.00	\$ 1,710.00	\$90.00	\$ 3,420.00
75	Culv, Rem, Less than 24 inch	160	Ft	\$10.00	\$ 1,600.00	\$16.00	\$ 2,560.00	\$16.00	\$ 2,560.00
76	Culv, CL E, 12 inch	160	Ft	\$70.00	\$ 11,200.00	\$35.00	\$ 5,600.00	\$75.00	\$ 12,000.00
77	Sanitary Sewer, OVC, 6 inch, Tr Det B2	100	Ft	\$60.00	\$ 6,000.00	\$25.00	\$ 2,500.00	\$100.00	\$ 10,000.00
78	Hydrant, Rem	12	Ea	\$900.00	\$ 10,800.00	\$500.00	\$ 6,000.00	\$1,000.00	\$ 12,000.00
79	Water Main, Rem	276	Lf	\$65.00	\$ 17,940.00	\$45.00	\$ 12,420.00	\$50.00	\$ 13,800.00
80	Water Main, Abandon	6,892	Lf	\$4.00	\$ 27,568.00	\$4.00	\$ 27,568.00	\$12.00	\$ 82,704.00
81	Water Main, 8 inch, Directional Drill, HDPE	210	Lf	\$166.00	\$ 34,860.00	\$180.00	\$ 37,800.00	\$200.00	\$ 42,000.00
82	Water Main, 6 inch, Open Cut	71	Lf	\$178.00	\$ 12,638.00	\$135.00	\$ 9,585.00	\$140.00	\$ 9,940.00
83	Water Main, 8 inch, Open Cut	7,714	Lf	\$166.00	\$ 1,280,524.00	\$146.00	\$ 1,126,244.00	\$155.00	\$ 1,195,670.00
84	Water Main, 12 inch, Open Cut	171	Lf	\$250.00	\$ 42,750.00	\$135.00	\$ 23,085.00	\$220.00	\$ 37,620.00
85	Gate Valve and Well, 6 inch, Modified	1	Ea	\$7,500.00	\$ 7,500.00	\$8,700.00	\$ 8,700.00	\$6,500.00	\$ 6,500.00
86	Gate Valve and Well, 8 inch, Modified	18	Ea	\$9,000.00	\$ 162,000.00	\$9,300.00	\$ 167,400.00	\$7,500.00	\$ 135,000.00
87	In Line Stop, 6 inch	2	Ea	\$450.00	\$ 900.00	\$400.00	\$ 800.00	\$7,000.00	\$ 14,000.00
88	In Line Stop, 8 inch	2	Ea	\$500.00	\$ 1,000.00	\$4,300.00	\$ 8,600.00	\$7,000.00	\$ 14,000.00

89	In Line Stop, 12 inch	2	Ea	\$650.00	\$ 1,300.00	\$5,950.00	\$ 11,900.00	\$14,000.00	\$ 28,000.00
90	Hydrant Assembly	14	Ea	\$8,600.00	\$ 120,400.00	\$13,300.00	\$ 186,200.00	\$10,000.00	\$ 140,000.00
91	Water Main, Connect New 12 inch to Existing 12 inch	4	Ea	\$11,000.00	\$ 44,000.00	\$17,300.00	\$ 69,200.00	\$12,000.00	\$ 48,000.00
92	Water Main, Connect New 8 inch to Existing 12 inch	1	Ea	\$10,000.00	\$ 10,000.00	\$9,800.00	\$ 9,800.00	\$12,000.00	\$ 12,000.00
93	Water Main, Connect New 6 inch to Existing 6 inch	1	Ea	\$6,500.00	\$ 6,500.00	\$9,700.00	\$ 9,700.00	\$12,000.00	\$ 12,000.00
94	Water Serv, 1 inch	3,609	Lf	\$55.00	\$ 198,495.00	\$55.00	\$ 198,495.00	\$140.00	\$ 505,260.00
95	Riprap, Plain	5	Syd	\$250.00	\$ 1,250.00	\$600.00	\$ 3,000.00	\$150.00	\$ 750.00
96	Pavt Mrkg, Ovly Cold Plastic, 24 Inch, Stop Bar	10	Ft	\$50.00	\$ 500.00	\$35.00	\$ 350.00	\$100.00	\$ 1,000.00
97	Temporary Traffic Control	1	LS	\$35,000.00	\$ 35,000.00	\$45,000.00	\$ 45,000.00	\$21,000.00	\$ 21,000.00
98	Surface Restoration	1	LS	\$50,000.00	\$ 50,000.00	\$95,000.00	\$ 95,000.00	\$120,000.00	\$ 120,000.00
99	Crew Days	\$700.00	Ea	118	\$ 82,600.00	98	\$ 68,600.00	135	\$ 94,500.00

**SUBTOTAL MEADOWBROOK LAKE**

**\$ 3,016,569.50**

**\$ 2,934,317.00**

**\* \$ 3,817,294.00**

CATEGORY 3 - MEADOWBROOK MANOR				PAMAR ENTERPRISES		BRICCO EXCAVATING		L. D'AGOSTINI & SONS	
No		QUANTITY	UNIT	UNIT PRICE (\$)	AMOUNT (\$)	UNIT PRICE (\$)	AMOUNT (\$)	UNIT PRICE (\$)	AMOUNT (\$)
100	Mobilization, Max	1	LS	\$68,000.00	\$ 68,000.00	\$65,000.00	\$ 65,000.00	\$100,000.00	\$ 100,000.00
101	Pre-Construction Audio Visual	1	LS	\$920.00	\$ 920.00	\$25,000.00	\$ 25,000.00	\$1,000.00	\$ 1,000.00
102	Soil Erosion Control Measures	1	LS	\$12,000.00	\$ 12,000.00	\$21,000.00	\$ 21,000.00	\$20,000.00	\$ 20,000.00
103	Exploratory Investigation, Vertical	100	Ft	\$35.00	\$ 3,500.00	\$40.00	\$ 4,000.00	\$100.00	\$ 10,000.00
104	Clearing	1	Acre	\$16,000.00	\$ 16,000.00	\$5,000.00	\$ 5,000.00	\$11,000.00	\$ 11,000.00
105	Tree, Rem, 6 inch to 18 inch	3	Ea	\$500.00	\$ 1,500.00	\$1,500.00	\$ 4,500.00	\$750.00	\$ 2,250.00
106	Pavt, Rem	67	Syd	\$18.00	\$ 1,206.00	\$25.00	\$ 1,675.00	\$35.00	\$ 2,345.00
107	HMA Cold Milling	6,054	Syd	\$3.50	\$ 21,189.00	\$6.00	\$ 36,324.00	\$3.00	\$ 18,162.00
108	HMA Surface, Rem, Modified	4,035	Syd	\$5.00	\$ 20,175.00	\$6.00	\$ 24,210.00	\$8.00	\$ 32,280.00
109	Curb and Gutter, Conc, Rem	104	Ft	\$19.00	\$ 1,976.00	\$15.00	\$ 1,560.00	\$10.00	\$ 1,040.00
110	Driveway, Rem, Modified	186	Syd	\$16.00	\$ 2,976.00	\$10.00	\$ 1,860.00	\$17.00	\$ 3,162.00
111	Sidewalk, Rem	240	Syd	\$12.00	\$ 2,880.00	\$15.00	\$ 3,600.00	\$10.00	\$ 2,400.00
112	Excavation, Earth	50	Cyd	\$55.00	\$ 2,750.00	\$65.00	\$ 3,250.00	\$40.00	\$ 2,000.00
113	Subgrade Undercut (As-Needed)	25	Cyd	\$78.00	\$ 1,950.00	\$60.00	\$ 1,500.00	\$100.00	\$ 2,500.00
114	Str Rehab Type 2: Structure Cover Adjust	3	Ea	\$1,450.00	\$ 4,350.00	\$350.00	\$ 1,050.00	\$1,500.00	\$ 4,500.00
115	Aggregate Base, 6 inch, Limestone	240	Syd	\$14.00	\$ 3,360.00	\$16.00	\$ 3,840.00	\$22.00	\$ 5,280.00
116	Aggregate Base. 8 inch, Limestone	4,288	Syd	\$15.00	\$ 64,320.00	\$14.00	\$ 60,032.00	\$25.00	\$ 107,200.00
117	HMA, Drive Approach	2	Ton	\$225.00	\$ 450.00	\$375.00	\$ 750.00	\$250.00	\$ 500.00
118	HMA, 4EML	473	Ton	\$112.15	\$ 53,046.95	\$122.00	\$ 57,706.00	\$170.00	\$ 80,410.00
119	HMA, 5EML	1,176	Ton	\$124.85	\$ 146,823.60	\$118.00	\$ 138,768.00	\$190.00	\$ 223,440.00
120	Conc Pavt with Integral Curb, Nonreinf, 9 inch	67	Syd	\$110.00	\$ 7,370.00	\$110.00	\$ 7,370.00	\$140.00	\$ 9,380.00
121	Curb and Gutter, Conc, Modified	104	Ft	\$55.00	\$ 5,720.00	\$35.00	\$ 3,640.00	\$45.00	\$ 4,680.00
122	Driveway, Nonreinf Conc, Modified	174	Syd	\$75.00	\$ 13,050.00	\$55.00	\$ 9,570.00	\$70.00	\$ 12,180.00
123	Sidewalk, Conc, 4 inch	2,012	Sft	\$7.00	\$ 14,084.00	\$8.00	\$ 16,096.00	\$9.00	\$ 18,108.00
124	ADA Detectable Warning Plate	30	Sft	\$35.00	\$ 1,050.00	\$35.00	\$ 1,050.00	\$45.00	\$ 1,350.00
125	ADA Ramp, Conc, 6 inch	195	Sft	\$15.00	\$ 2,925.00	\$20.00	\$ 3,900.00	\$20.00	\$ 3,900.00
126	Mailbox, Remove and Replace	20	Ea	\$200.00	\$ 4,000.00	\$100.00	\$ 2,000.00	\$200.00	\$ 4,000.00
127	Post, Mailbox	168	Lf	\$25.00	\$ 4,200.00	\$25.00	\$ 4,200.00	\$25.00	\$ 4,200.00
128	Culv, Rem, Less Than 24 inch	153	Ft	\$10.00	\$ 1,530.00	\$16.00	\$ 2,448.00	\$20.00	\$ 3,060.00
129	Culv, CL E, 12 inch	145	Ft	\$70.00	\$ 10,150.00	\$35.00	\$ 5,075.00	\$75.00	\$ 10,875.00
130	Culv, Rem, Less than 24 inch	13	Ft	\$10.00	\$ 130.00	\$25.00	\$ 325.00	\$20.00	\$ 260.00
131	Culv, CL E, 12 inch	13	Ft	\$70.00	\$ 910.00	\$38.00	\$ 494.00	\$75.00	\$ 975.00
134	Sanitary Sewer, PVC, 6 inch, Tr Det B2	100	Ft	\$60.00	\$ 6,000.00	\$25.00	\$ 2,500.00	\$100.00	\$ 10,000.00
135	Hydrant, Rem	8	Ea	\$900.00	\$ 7,200.00	\$500.00	\$ 4,000.00	\$1,000.00	\$ 8,000.00
136	Water Main, Rem	640	Lf	\$65.00	\$ 41,600.00	\$35.00	\$ 22,400.00	\$40.00	\$ 25,600.00







6	M204	Pavt, Rem	Syd	35	18.00	630.00
7	M501	HMA Cold Milling	Syd	4374	3.50	15,309.00
8	30.14	HMA Surface, Rem, Modified	Syd	5025	5.00	25,125.00
9	M204	Curb and Gutter, Conc, Rem	Ft	629	12.00	7,548.00
10	M205	Excavation, Earth	Cyd	50	55.00	2,750.00
11	30.16	Subgrade Undercut (As-Needed)	Cyd	25	78.00	1,950.00
12	30.17	Str Rehab Type 2: Structure Cover Adjust	Ea	3	1,450.00	4,350.00
13	M302	Aggregate Base, 8 inch, Limestone	Syd	5060	15.00	75,900.00
14	M501	HMA, 4EML	Ton	1441	112.15	161,608.15
15	M501	HMA, 5EML	Ton	1087	124.85	135,711.95
16	M602	Conc Pavt with Integral Curb, Nonreinf, 9 inch	Syd	35	110.00	3,850.00
17	30.18	Curb and Gutter, Conc, Modified	Ft	629	35.00	22,015.00
18	30.21	Mailbox, Remove and Replace	Ea	5	200.00	1,000.00
19	30.22	Post, Mailbox	Lf	64	25.00	1,600.00
20	M203	Sewer, Rem, Less than 24 inch	Ft	128	10.00	1,280.00
21	M402	Sewer, CI A, 12 inch, Tr Det E	Ft	112	70.00	7,840.00
22	M402	Sewer, CI A, 18 inch, Tr Det E	Ft	16	100.00	1,600.00
23	M825	Sanitary Sewer, PVC, 6 inch, Tr Det B2	Ft	100	60.00	6,000.00
24	30.23	Water Structure, Rem	Ea	2	900.00	1,800.00
25	30.24	Hydrant, Rem	Ea	6	900.00	5,400.00
26	30.25	Water Main, Rem	Lf	361	65.00	23,465.00
27	30.26	Water Main, Abandon	Lf	2463	1.00	2,463.00
28	30.27	Water Main, 8 inch, Open Cut	Lf	460	195.00	89,700.00
29	30.27	Water Main, 16 inch, Open Cut	Lf	2318	279.00	646,722.00
30	30.27	Water Main, 20 inch, Open Cut	Lf	450	350.00	157,500.00
31	30.29	Gate Valve and Well, 8 inch, Modified	Ea	4	9,000.00	36,000.00
32	30.29	Gate Valve and Well, 16 inch, Modified	Ea	6	11,000.00	66,000.00
33	30.30	In Line Stop, 8 inch	Ea	2	500.00	1,000.00



34	30.30	In Line Stop, 16 inch	Ea	2	800.00	1,600.00
35	30.30	In Line Stop, 20 inch	Ea	3	1,000.00	3,000.00
36	30.31	Hydrant Assembly	Ea	6	8,600.00	51,600.00
37	30.32	Water Main, Connect New 20 inch to Existing 16 inch	Ea	1	14,500.00	14,500.00
38	30.32	Water Main, Connect New 16 inch to Existing 16 inch	Ea	1	13,000.00	13,000.00
39	30.32	Water Main, Connect New 16 inch to Existing 12 inch	Ea	1	11,500.00	11,500.00
40	30.32	Water Main, Connect New 8 inch to Existing 8 inch	Ea	7	9,000.00	63,000.00
41	30.33	Water Serv, 1 inch	Lf	1195	55.00	65,725.00
42	30.13	Temporary Traffic Control	LS	1	25,000.00	25,000.00
43	30.34	Surface Restoration	LS	1	15,000.00	15,000.00
44	01.04	Crew Days	Ea	75.0	\$700	52,500.00
45	30.11	RCOC Permit Allowance	DLR	1	\$1000	\$1000
<b>CENTER STREET SUBTOTAL:</b>					<b>\$</b>	<b>1,940,792.10</b>
<b>MEADOWBROOK LAKE</b>						
46	02.02	Mobilization, Max	LS	1	132,000.00	132,000.00
47	02.02	Pre-Construction Audio Visual	LS	1	1,000.00	1,000.00
48	30.12	Soil Erosion Control Measures	LS	1	18,000.00	18,000.00
49	M204	Exploratory Investigation, Vertical	Ft	100	35.00	3,500.00
50	M201	Clearing	Acre	1	16,000.00	16,000.00
51	M202	Tree, Rem, 6 inch to 18 inch	Ea	3	500.00	1,500.00
52	M501	HMA Cold Milling	Syd	8266	3.50	28,931.00
53	30.14	HMA Surface, Rem, Modified	Syd	8277	5.00	41,385.00
54	M204	Curb and Gutter, Conc, Rem	Ft	23	19.00	437.00
55	30.15	Driveway, Rem, Modified	Syd	673	16.00	10,768.00
56	M204	Sidewalk, Rem	Syd	22	12.00	264.00
57	M205	Excavation, Earth	Cyd	245	55.00	13,475.00
58	30.16	Subgrade Undercut (As-Needed)	Cyd	25	78.00	1,950.00
59	30.17	Str Rehab Type 2: Structure Cover Adjust	Ea	3	1,450.00	4,350.00





60	M302	Aggregate Base, 6 inch, Limestone	Syd	22	14.00	308.00
61	M302	Aggregate Base, 8 inch, Limestone	Syd	9838	15.00	147,570.00
62	M501	HMA, Drive Approach	Ton	26	225.00	5,850.00
63	M501	HMA, 4EML	Ton	1065	112.15	119,439.75
64	M501	HMA, 5EML	Ton	1955	124.85	244,081.75
65	30.18	Curb and Gutter, Conc, Modified	Ft	23	55.00	1,265.00
66	M802	Shld Gutter, Conc, Det 3	Ea	1	650.00	650.00
67	M802	Spillway, Conc	Ft	3	150.00	450.00
68	M801	Driveway, Nonreinf Conc, 6 inch	Syd	583	55.00	32,065.00
69	M803	Sidewalk, Conc, 4 inch	Sft	104	7.00	728.00
70	30.19	ADA Detectable Warning Plate	Sft	20	35.00	700.00
71	30.20	ADA Ramp, Conc, 6 inch	Sft	123	15.00	1,845.00
72	30.21	Mailbox, Remove and Replace	Ea	43	200.00	8,600.00
73	30.22	Post, Mailbox	Lf	352	25.00	8,800.00
74	M204	Guardrail, Rem	Ft	38	5.00	190.00
75	M807	Guardrail Post, Furn and Install, 72 inch	Ea	4	225.00	900.00
76	M807	Guardrail, Type A	Ft	38	59.00	2,242.00
75	M203	Culv, Rem, Less Than 24 inch	Ft	160	10.00	1,600.00
76	M401	Culv, CL E, 12 inch	Ft	160	70.00	11,200.00
77	M825	Sanitary Sewer, PVC, 6 inch, Tr Det B2	Ft	100	60.00	6,000.00
78	30.24	Hydrant, Rem	Ea	12	900.00	10,800.00
79	30.25	Water Main, Rem	Lf	276	65.00	17,940.00
80	30.26	Water Main, Abandon	Lf	6892	4.00	27,568.00
81	30.28	Water Main, 8 inch, Directional Drill, HDPE	Lf	210	166.00	34,860.00
82	30.27	Water Main, 6 inch, Open Cut	Lf	71	178.00	12,638.00
83	30.27	Water Main, 8 inch, Open Cut	Lf	7714	166.00	1,280,524.00
84	30.27	Water Main, 12 inch, Open Cut	Lf	171	250.00	42,750.00
85	30.29	Gate Valve and Well, 6 inch, Modified	Ea	1	7,500.00	7,500.00



86	30.29	Gate Valve and Well, 8 inch, Modified	Ea	18	9,000.00	162,000.00
87	30.30	In Line Stop, 6 inch	Ea	2	450.00	900.00
88	30.30	In Line Stop, 8 inch	Ea	2	500.00	1,000.00
89	30.30	In Line Stop, 12 inch	Ea	2	650.00	1,300.00
90	30.31	Hydrant Assembly	Ea	14	8,600.00	120,400.00
91	30.32	Water Main, Connect New 12 inch to Existing 12 inch	Ea	4	11,000.00	44,000.00
92	30.32	Water Main, Connect New 8 inch to Existing 12 inch	Ea	1	10,000.00	10,000.00
93	30.32	Water Main, Connect New 6 inch to Existing 6 inch	Ea	1	6,500.00	6,500.00
94	30.33	Water Serv, 1 inch	Lf	3609	55.00	198,495.00
95	M813	Riprap, Plain	Syd	5	250.00	1,250.00
96	M811	Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar	Ft	10	50.00	500.00
97	30.13	Temporary Traffic Control	LS	1	35,000.00	35,000.00
98	30.34	Surface Restoration	LS	1	50,000.00	50,000.00
99	01.04	Crew Days	Ea	118.0	\$700	82,600.00
<b>MEADOWBROOK LAKE SUBTOTAL:</b>					<b>\$ 3,016,569.50</b>	
<b>MEADOWBROOK MANOR</b>						
100	02.02	Mobilization, Max	LS	1	68,000.00	68,000.00
101	02.02	Pre-Construction Audio Visual	LS	1	920.00	920.00
102	30.12	Soil Erosion Control Measures	LS	1	12,000.00	12,000.00
103	M204	Exploratory Investigation, Vertical	Ft	100	35.00	3,500.00
104	M201	Clearing	Acre	1	16,000.00	16,000.00
105	M202	Tree, Rem, 6 inch to 18 inch	Ea	3	500.00	1,500.00
106	M204	Pavt, Rem	Syd	67	18.00	1,206.00
107	M501	HMA Cold Milling	Syd	6054	3.50	21,189.00
108	30.14	HMA Surface, Rem, Modified	Syd	4035	5.00	20,175.00
109	M204	Curb and Gutter, Conc, Rem	Ft	104	19.00	1,976.00
110	30.15	Driveway, Rem, Modified	Syd	186	16.00	2,976.00
111	M204	Sidewalk, Rem	Syd	240	12.00	2,880.00



112	M205	Excavation, Earth	Cyd	50	55.00	2,750.00
113	30.16	Subgrade Undercut (As-Needed)	Cyd	25	78.00	1,950.00
114	30.17	Str Rehab Type 2: Structure Cover Adjust	Ea	3	1,450.00	4,350.00
115	M302	Aggregate Base, 6 inch, Limestone	Syd	240	14.00	3,360.00
116	M302	Aggregate Base, 8 inch, Limestone	Syd	4288	15.00	64,320.00
117	M501	HMA, Drive Approach	Ton	2	225.00	450.00
118	M501	HMA, 4EML	Ton	473	112.15	53,046.95
119	M501	HMA, 5EML	Ton	1176	124.85	146,823.60
120	M602	Conc Pavt with Integral Curb, Nonreinf, 9 inch	Syd	67	110.00	7,370.00
121	30.18	Curb and Gutter, Conc, Modified	Ft	104	55.00	5,720.00
122	M801	Driveway, Nonreinf Conc, 6 inch	Syd	174	75.00	13,050.00
123	M803	Sidewalk, Conc, 4 inch	Sft	2012	7.00	14,084.00
124	30.19	ADA Detectable Warning Plate	Sft	30	35.00	1,050.00
125	30.20	ADA Ramp, Conc, 6 inch	Sft	195	15.00	2,925.00
126	30.21	Mailbox, Remove and Replace	Ea	20	200.00	4,000.00
127	30.22	Post, Mailbox	Lf	168	25.00	4,200.00
128	M203	Culv, Rem, Less Than 24 inch	Ft	153	10.00	1,530.00
129	M401	Culv, CL E, 12 inch	Ft	145	70.00	10,150.00
130	M203	Culv, Rem, Less Than 24 inch	Ft	13	10.00	130.00
131	M401	Culv, CL E, 12 inch	Ft	13	70.00	910.00
134	M825	Sanitary Sewer, PVC, 6 inch, Tr Det B2	Ft	100	60.00	6,000.00
135	30.24	Hydrant, Rem	Ea	8	900.00	7,200.00
136	30.25	Water Main, Rem	Lf	640	65.00	41,600.00
137	30.26	Water Main, Abandon	Lf	2392	5.00	11,960.00
138	30.27	Water Main, 8 inch, Open Cut	Lf	3495	170.00	594,150.00
139	30.27	Water Main, 10 inch, Open Cut	Lf	60	250.00	15,000.00
140	30.27	Water Main, 12 inch, Open Cut	Lf	572	270.00	154,440.00
141	30.27	Water Main, 20 inch, Open Cut	Lf	180	350.00	63,000.00



142	30.29	Gate Valve and Well, 8 inch, Modified	Ea	6	9,000.00	54,000.00
143	30.29	Gate Valve and Well, 12 inch, Modified	Ea	1	10,000.00	10,000.00
144	30.30	In Line Stop, 8 inch	Ea	2	500.00	1,000.00
146	30.30	In Line Stop, 12 inch	Ea	3	650.00	1,950.00
147	30.30	In Line Stop, 20 inch	Ea	4	1,000.00	4,000.00
148	30.31	Hydrant Assembly	Ea	9	8,600.00	77,400.00
149	30.32	Water Main, Connect New 8 inch to Existing 20 inch	Ea	2	10,000.00	20,000.00
150	30.32	Water Main, Connect New 12 inch to Existing 12 inch	Ea	1	11,000.00	11,000.00
151	30.33	Water Serv, 1 inch	Lf	1125	55.00	61,875.00
152	30.13	Temporary Traffic Control	LS	1	35,000.00	35,000.00
153	30.34	Surface Restoration	LS	1	45,000.00	45,000.00
154	01.04	Crew Days	Ea	70.0	\$700	49,000.00
155	30.11	WCDPS Permit Allowance	DLR	1	\$1500	\$1500
<b>MEADOWBROOK MANOR SUBTOTAL:</b>					\$ 1,759,566.55	
<b>TOTAL:</b>					\$ 6,716,928.15	

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. **The undersigned shall complete including restoration and all punch list items by November 30, 2023. Once work has commenced, the Contractor shall remain in active operation until the project is completed, unless otherwise authorized by the Owner.**

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 Substantial Completion of the Work, within the time specified in this Bid, the OWNER will suffer a damage of One Thousand and Five Hundred Dollars (\$1,500) per day, and said OWNER shall be compensated therefore at the rate as liquidated damages in accordance with the Agreement.



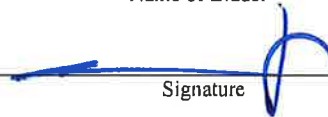


In submitting this Bid, it is understood that the right is reserved by the OWNER to accept any bid, to reject any or all Bids, and to waive irregularities in bidding in the interest of the OWNER.

SUBMITTED on 6-24-22  
Date\*

BY: Pamar Enterprises, Inc.  
Name of Bidder\*

31604 Pamar Court  
Street\*

  
Signature

New Haven, MI 48048  
City, State, ZIP\*

Rinaldo G. Acciavatti, President  
Name and Title of Signatory\*

(586) 749-8593  
Telephone Number\*

(586) 749-8839  
Facsimile Number\*

\*Typed or printed in ink.

