

Preliminary Report of the Engineer
On the Proposed Lindsay Road Water Main Extension Assessments
In the City of Pewaukee

In accordance with the resolution passed by the City Council of the City of Pewaukee, we herewith submit our report on assessments for the installation of municipal water in Lindsay Road to be made in the City of Pewaukee. The bid data shown here is based on bid prices. The inventory data shown here is based on prices paid.

This report consists of the following Schedules:

Schedule “A”: Summary of options for assessments and related costs.

Schedule “B”: Legal description and map, dated 2024, of all parcels within the assessment district.

Schedule “C”: Final assessment for each parcel affected.

The properties against which the assessments are proposed are benefited and the improvements constitute an exercise of Police Powers.

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Director of Public Works/City Engineer
City of Pewaukee
W240N3065 Pewaukee Road
Pewaukee, WI 53072
June 3, 2024

Prepared by:
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Civil Engineer
May 21, 2024

Schedule “A” – Lindsay Road Municipal Water Main Extension

The City of Pewaukee is considering the installation of a sanitary sewer from the north side of the first addition to Swan View Farms to the Lindsay Road Right-of-Way and municipal water main within Lindsay Road, from the west side of the Pewaukee Sports Complex to the north side of the first addition to Swan View Farms, going through Balmer Park. The improvements include a sanitary sewer extension, a water main extension, and related facilities.

The cost of the water main extension within Lindsay Road will be apportioned to all property owners utilizing the system. The cost of the water main extension within Balmer Park and Swan View Farms will be paid by the Water Utility. The cost of the sanitary sewer extension within Balmer Park will be paid by the Sewer Utility.

It is recommended that the costs for the water main assessments be determined on a per-foot frontage basis. It is recommended the costs for the water service assessments be determined on a per-unit basis.

UNIT RATE COMPUTATIONS

Water Main Footage Rate

Estimated 8-inch Equivalent Water Main Costs (see attached breakdown)	\$ 192,283.00
Engineering, Administration, & Contingencies	\$ 57,684.90
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Total Estimated 8-inch Equivalent Water Main Costs	\$ 249,967.90

$$\frac{\$ 249,967.90}{2832.75 \text{ ft}} = \$ 88.24/\text{foot}$$

Use \$ 88.24/foot as the Water Main Footage Rate.

Water Service Unit Rate – 1.25-inch

Estimated 1.25-inch Water Service Costs (see attached breakdown)	\$ 61,067.16
Engineering, Administration, & Contingencies	\$ 18,320.15
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Total Estimated 1.25-inch Water Service Costs	\$ 79,387.31

$$\frac{\$ 79,387.31}{8 \text{ units}} = \$ 9,923.41/\text{unit}$$

Use \$ 9,923.41/unit as the 1.25-inch Water Service Unit Rate.

Water Service Unit Rate – 2-inch

Estimated 2-inch Water Service Costs (see attached breakdown)	\$	4,243.02
Engineering, Administration, & Contingencies	\$	1,272.91
Total Estimated 2-inch Water Service Costs	\$	5,515.93

$$\frac{\$ 5,515.93}{1 \text{ unit}} = \$ 5,515.93/\text{unit}$$

Use \$ 5,515.93/unit as the 2-inch Water Service Unit Rate.

Sanitary Sewer Costs

Estimated Sanitary Sewer Costs (see attached breakdown)	\$	157,184.20
Engineering, Administration, & Contingencies	\$	47,155.26
Total Estimated Sanitary Sewer Costs	\$	204,339.46

COST SUMMARY

Cost Summary

Total Project Costs	\$	970,719.66
Total Water Main Assessable Costs (Deduct)	\$	(207,621.66)
Total Water Main Assessable Costs - Deferred (Deduct)	\$	(18,845.42)
Total 1.25-inch Water Service Assessable Costs (Deduct)	\$	(79,387.28)
Total 2-inch Water Service Assessable Costs (Deduct)	\$	(5,515.93)
Total Sanitary Sewer Costs (Deduct)	\$	(204,339.46)
Net Non-Assessable and Water Utility Costs	\$	455,009.91

Computation of Costs

Total Estimated Construction Project Costs

<u>Item</u>		<u>Estimated</u>		<u>Bid Unit</u>	
<u>No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Price</u>	<u>Bid Price</u>
1	12-IN PVC Water Main W/ Granular Backfill	390	LF	\$ 114.37	\$ 44,604.30
2	12-IN PVC Water Main W/ Spoil Backfill	1810	LF	\$ 114.53	\$207,299.30
3	Install OWNER-Provided 8-IN PVC Water Main W/ Granular Backfill	50	LF	\$ 101.40	\$ 5,070.00
4	Install OWNER-Provided 8-IN PVC Water Main W/ Spoil Backfill	50	LF	\$ 97.98	\$ 4,899.00
5	Install OWNER-Provided 6-IN PVC Water Main W/ Spoil Backfill	60	LF	\$ 85.50	\$ 5,130.00
6	12-IN Gate Valve and Valve Box	7	EA	\$ 4,841.63	\$ 33,891.41
7	8-IN Gate Valve and Valve Box	1	EA	\$ 2,828.05	\$ 2,828.05
8	Install OWNER-Provided 6-IN Gate Valve	3	EA	\$ 1,064.00	\$ 3,192.00
9	Install OWNER-Provided Fire Hydrant Assembly	3	EA	\$ 1,253.87	\$ 3,761.61
10	Remove and Replace Fire Hydrant Assembly W/ Aux Valve and Valve Box	2	EA	\$ 3,000.00	\$ 6,000.00
11	2-IN Water Service	15	LF	\$ 178.72	\$ 2,680.80
12	2-IN Corporation Stop, Curb Stop, and Curb Box	1	EA	\$ 1,404.41	\$ 1,404.41
13	1 ¼-IN Water Service W/ Granular Backfill	110	LF	\$ 152.76	\$ 16,803.60
14	1 ¼-IN Water Service W/ Spoil Backfill	250	LF	\$ 143.93	\$ 35,982.50
15	1 ¼-IN Corporation Stop, Curb Stop, and Curb Box	8	EA	\$ 837.87	\$ 6,702.96
16	Water Main Insulation	580	SF	\$ 5.74	\$ 3,329.20
17	Connect New Water Main to Existing Water Main	2	EA	\$ 2,505.71	\$ 5,011.42
18	Remove and Replace Sampling Station	1	LS	\$ 6,571.72	\$ 6,571.72
19	Install OWNER-Provided 8-IN PVC Sanitary Sewer W/ Granular Backfill	220	LF	\$ 174.53	\$ 38,396.60
20	Install OWNER-Provided 8-IN PVC Sanitary Sewer W/ Spoil Backfill	530	LF	\$ 94.05	\$ 49,846.50
21	4-FT-DIA Sanitary Sewer MH W/ Casting	2	EA	\$ 7,697.74	\$ 15,395.48
22	Connect New Sanitary Sewer to Existing Sanitary Sewer	1	EA	\$ 1,083.42	\$ 1,083.42

Total Estimated Construction Project Costs - Continued

<u>Item No.</u>	<u>Description</u>	<u>Estimated Quantity</u>	<u>Unit</u>	<u>Bid Unit Price</u>	<u>Bid Price</u>
23	Install OWNER-Provided 6-IN PVC Sanitary Sewer Lateral	40	LF	\$ 112.34	\$ 4,493.60
24	Rock Excavation	20	LF	\$ 150.00	\$ 3,000.00
25	Saw Cut, Asphalt	740	LF	\$ 2.00	\$ 1,480.00
26	¾-IN Dense-Grade Base	170	T	\$ 19.83	\$ 3,371.10
27	Restore Gravel Shoulder	260	T	\$ 3.89	\$ 1,011.40
28	1 ¼-IN Dense Grade Base	160	T	\$ 19.83	\$ 3,172.80
29	HMA Pavement 4 LT 58-28 S	20	T	\$ 538.50	\$ 10,770.00
30	HMA Pavement 3 LT 58-28 S	35	T	\$ 219.00	\$ 7,665.00
31	Remove and Replace Asphalt Driveway and Parking Lot	180	T	\$ 189.06	\$ 34,030.80
32	Remove and Replace Concrete Driveway	15	SY	\$ 510.40	\$ 7,656.00
33	Remove and Replace 12-IN CMP Culvert	50	LF	\$ 58.95	\$ 2,947.50
34	12-IN Corrugated Apron Endwall	4	EA	\$ 192.97	\$ 771.88
35	Salvage and Reinstall Corrugated Apron Endwall	1	EA	\$ 375.00	\$ 375.00
36	6-IN Topsoil, Seed, Fertilizer, Erosion Mat, and Watering	4500	SY	\$ 5.62	\$ 25,290.00
37	Pavement Markings-Latex	440	LF	\$ 7.25	\$ 3,190.00
38	Pavement Markings-Epoxy	150	LF	\$ 10.00	\$ 1,500.00
39	Clearing and Grubbing	1	LS	\$ 1,750.00	\$ 1,750.00
40	Dewatering	1	LS	\$ 2,000.00	\$ 2,000.00
41	Tree Removal	370	ID	\$ 30.00	\$ 11,100.00
42	Traffic Control	1	LS	\$ 8,500.00	\$ 8,500.00
43	Dust Control	1	LS	\$ 675.00	\$ 675.00
44	Salvage and Reset Existing Signs and Mailboxes	1	LS	\$ 300.00	\$ 300.00
45	Remove Landscaping	1	LS	\$ 3,000.00	\$ 3,000.00
46	Sawcut and Remove Concrete Foundation	1	LS	\$ 546.05	\$ 546.05
47	Remove and Replace Sand Court	1	LS	\$ 18,400.00	\$ 18,400.00
48	Salvage and Reset Volleyball Net Support	1	LS	\$ 1,800.00	\$ 1,800.00
49	Mobilization	1	LS	\$ 56,400.00	\$ 56,400.00
50	Erosion Control	1	LS	\$ 3,025.00	\$ 3,025.00
Subtotal of Bid Contract					\$718,105.41
I1	8" C900	850	LF	\$ 12.75	\$ 10,837.50
I2	6" C900	100	LF	\$ 7.39	\$ 739.00
I3	Green Tracer Wire	1000	LF	\$ 0.30	\$ 300.00

Total Estimated Construction Project Costs - Continued

<u>Item</u>		<u>Estimated</u>		<u>Bid Unit</u>	
<u>No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Price</u>	<u>Bid Price</u>
I4	Watermain Bricks	0.5	Pallet	\$ 280.40	\$ 140.20
I5	8' Bury Depth Hydrant	1	EA	\$ 2,972.00	\$ 2,972.00
I6	9' Bury Depth Hydrant	1	EA	\$ 3,131.00	\$ 3,131.00
I7	6.5' Bury Depth Hydrant	1	EA	\$ 2,797.00	\$ 2,797.00
I8	Hydrant Marker	3	EA	\$ 32.00	\$ 96.00
I9	8" × 6" Anchor Tee	1	EA	\$ 273.00	\$ 273.00
I10	6" Valve	3	EA	\$ 700.00	\$ 2,100.00
I11	6" Megalug	9	EA	\$ 26.00	\$ 234.00
I12	6" Megalug Gasket	2	EA	\$ 3.00	\$ 6.00
I13	8" Megalug	28	EA	\$ 40.00	\$ 1,120.00
I14	8" Megalug Gasket	33	EA	\$ 4.00	\$ 132.00
I15	Megalug Bolts	150	EA	\$ 5.00	\$ 750.00
I16	¾" Threaded Rod	72	LF	\$ 9.06	\$ 652.32
I17	2" Adjusting Ring	12	EA	\$ 20.00	\$ 240.00
I18	4" Adjusting Ring	12	EA	\$ 36.00	\$ 432.00
I19	MAC Wrap	20	Roll	\$ 82.50	\$ 1,650.00
Subtotal of Purchased Inventory for Project					\$ 28,602.02
Subtotal of Contract					\$746,707.43
Engineering, Administration, & Contingencies					\$224,012.23
Total Project Costs					\$970,719.66

Total Project Costs = \$ 970,719.66

Total Estimated Water Main Construction Costs

<u>Item</u>		<u>Estimated</u>		<u>Bid Unit</u>	
<u>No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Price</u>	<u>Bid Price</u>
1	12-IN PVC Water Main W/ Granular Backfill	390	LF	\$ 114.37	\$ 44,604.30
2	12-IN PVC Water Main W/ Spoil Backfill	1810	LF	\$ 114.53	\$207,299.30
3	Install OWNER-Provided 8-IN PVC Water Main W/ Granular Backfill	50	LF	\$ 101.40	\$ 5,070.00
4	Install OWNER-Provided 8-IN PVC Water Main W/ Spoil Backfill	50	LF	\$ 97.98	\$ 4,899.00
5	Install OWNER-Provided 6-IN PVC Water Main W/ Spoil Backfill	60	LF	\$ 85.50	\$ 5,130.00
6	12-IN Gate Valve and Valve Box	7	EA	\$ 4,841.63	\$ 33,891.41
7	8-IN Gate Valve and Valve Box	1	EA	\$ 2,828.05	\$ 2,828.05
8	Install OWNER-Provided 6-IN Gate Valve	3	EA	\$ 1,064.00	\$ 3,192.00
9	Install OWNER-Provided Fire Hydrant Assembly	3	EA	\$ 1,253.87	\$ 3,761.61
10	Remove and Replace Fire Hydrant Assembly W/ Aux Valve and Valve Box	2	EA	\$ 3,000.00	\$ 6,000.00
11	2-IN Water Service	15	LF	\$ 178.72	\$ 2,680.80
12	2-IN Corporation Stop, Curb Stop, and Curb Box	1	EA	\$ 1,404.41	\$ 1,404.41
13	1 ¼-IN Water Service W/ Granular Backfill	110	LF	\$ 152.76	\$ 16,803.60
14	1 ¼-IN Water Service W/ Spoil Backfill	250	LF	\$ 143.93	\$ 35,982.50
15	1 ¼-IN Corporation Stop, Curb Stop, and Curb Box	8	EA	\$ 837.87	\$ 6,702.96
16	Water Main Insulation	580	SF	\$ 5.74	\$ 3,329.20
17	Connect New Water Main to Existing Water Main	2	EA	\$ 2,505.71	\$ 5,011.42
18	Remove and Replace Sampling Station	1	LS	\$ 6,571.72	\$ 6,571.72
24	Rock Excavation	5	LF	\$ 150.00	\$ 750.00
25	Saw Cut, Asphalt	740	LF	\$ 2.00	\$ 1,480.00
26	¾-IN Dense-Grade Base	170	T	\$ 19.83	\$ 3,371.10
27	Restore Gravel Shoulder	260	T	\$ 3.89	\$ 1,011.40
28	1 ¼-IN Dense Grade Base	160	T	\$ 19.83	\$ 3,172.80
29	HMA Pavement 4 LT 58-28 S	20	T	\$ 538.50	\$ 10,770.00
30	HMA Pavement 3 LT 58-28 S	35	T	\$ 219.00	\$ 7,665.00
31	Remove and Replace Asphalt Driveway and Parking Lot	180	T	\$ 189.06	\$ 34,030.80

Total Estimated Water Main Construction Costs - Continued

<u>Item</u>		<u>Estimated</u>		<u>Bid Unit</u>	
<u>No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Price</u>	<u>Bid Price</u>
32	Remove and Replace Concrete Driveway	15	SY	\$ 510.40	\$ 7,656.00
33	Remove and Replace 12-IN CMP Culvert	50	LF	\$ 58.95	\$ 2,947.50
34	12-IN Corrugated Apron Endwall	4	EA	\$ 192.97	\$ 771.88
35	Salvage and Reinstall Corrugated Apron Endwall	1	EA	\$ 375.00	\$ 375.00
36	6-IN Topsoil, Seed, Fertilizer, Erosion Mat, and Watering	3600	SY	\$ 5.62	\$ 20,232.00
37	Pavement Markings-Latex	440	LF	\$ 7.25	\$ 3,190.00
38	Pavement Markings-Epoxy	150	LF	\$ 10.00	\$ 1,500.00
39	Clearing and Grubbing	1	LS	\$ 1,750.00	\$ 1,750.00
41	Tree Removal	299.7	ID	\$ 30.00	\$ 8,991.00
42	Traffic Control	0.79	LS	\$ 8,500.00	\$ 6,715.00
43	Dust Control	0.78	LS	\$ 675.00	\$ 526.50
44	Salvage and Reset Existing Signs and Mailboxes	1	LS	\$ 300.00	\$ 300.00
45	Remove Landscaping	1	LS	\$ 3,000.00	\$ 3,000.00
46	Sawcut and Remove Concrete Foundation	1	LS	\$ 546.05	\$ 546.05
47	Remove and Replace Sand Court	0.56	LS	\$18,400.00	\$ 10,304.00
49	Mobilization	0.79	LS	\$56,400.00	\$ 44,556.00
50	Erosion Control	0.86	LS	\$ 3,025.00	\$ 2,601.50
Subtotal of Bid Contract					\$573,375.81
I1	8" C900	102	LF	\$ 12.75	\$ 1,300.50
I2	6" C900	60	LF	\$ 7.39	\$ 443.40
I4	Watermain Bricks	0.5	Pallet	\$ 280.40	\$ 140.20
I5	8' Bury Depth Hydrant	1	EA	\$ 2,972.00	\$ 2,972.00
I6	9' Bury Depth Hydrant	1	EA	\$ 3,131.00	\$ 3,131.00
I7	6.5' Bury Depth Hydrant	1	EA	\$ 2,797.00	\$ 2,797.00
I8	Hydrant Marker	3	EA	\$ 32.00	\$ 96.00
I9	8" × 6" Anchor Tee	1	EA	\$ 273.00	\$ 273.00
I10	6" Valve	3	EA	\$ 700.00	\$ 2,100.00
I11	6" Megalug	9	EA	\$ 26.00	\$ 234.00
I12	6" Megalug Gasket	2	EA	\$ 3.00	\$ 6.00
I13	8" Megalug	28	EA	\$ 40.00	\$ 1,120.00
I14	8" Megalug Gasket	33	EA	\$ 4.00	\$ 132.00
I15	Megalug Bolts	150	EA	\$ 5.00	\$ 750.00

Total Estimated Water Main Construction Costs - Continued

<u>Item</u>	<u>Estimated</u>	<u>Bid Unit</u>			
<u>No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Price</u>	<u>Bid Price</u>
I16	¾" Threaded Rod	72	LF	\$ 9.06	\$ 652.32
Subtotal of Purchased Inventory for Project					\$ 16,147.42
Subtotal of Contract					\$589,523.23
Engineering, Administration, & Contingencies					\$176,856.97
Total Project Costs					\$766,380.20

Total Estimated Water Main Construction Costs = \$ 766,380.20

Total Estimated Equivalent 8-inch Water Main Extension & Assessable Costs

<u>Item No.</u>	<u>Description</u>	<u>Estimated Quantity</u>	<u>Unit</u>	<u>Bid Unit Price</u>	<u>Bid Price</u>
1	Equivalent 8-IN PVC Water Main W/ Granular Backfill	171.6	LF	\$ 59.08	\$ 10,137.29
2	Equivalent 8-IN PVC Water Main W/ Spoil Backfill	1212.7	LF	\$ 59.16	\$ 71,740.58
5	Install OWNER-Provided 6-IN PVC Water Main W/ Spoil Backfill	24	LF	\$ 85.50	\$ 2,052.00
6	Equivalent 8-IN Gate Valve and Valve Box	4	EA	\$ 2,454.21	\$ 9,816.83
8	Install OWNER-Provided 6-IN Gate Valve	1	EA	\$ 1,064.00	\$ 1,064.00
9	Install OWNER-Provided Fire Hydrant Assembly	1	EA	\$ 1,253.87	\$ 1,253.87
16	Water Main Insulation	580	SF	\$ 5.74	\$ 3,329.20
25	Saw Cut, Asphalt	377.4	LF	\$ 2.00	\$ 754.80
26	¾-IN Dense-Grade Base	86.7	T	\$ 19.83	\$ 1,719.26
27	Restore Gravel Shoulder	132.6	T	\$ 3.89	\$ 515.81
28	1 ¼-IN Dense Grade Base	81.6	T	\$ 19.83	\$ 1,618.13
29	HMA Pavement 4 LT 58-28 S	10.2	T	\$ 538.50	\$ 5,492.70
30	HMA Pavement 3 LT 58-28 S	17.85	T	\$ 219.00	\$ 3,909.15
31	Remove and Replace Asphalt Driveway and Parking Lot	36	T	\$ 189.06	\$ 6,806.16
32	Remove and Replace Concrete Driveway	15	SY	\$ 510.40	\$ 7,656.00
33	Remove and Replace 12-IN CMP Culvert	50	LF	\$ 58.95	\$ 2,947.50
34	12-IN Corrugated Apron Endwall	4	EA	\$ 192.97	\$ 771.88
36	6-IN Topsoil, Seed, Fertilizer, Erosion Mat, and Watering	2499.12	SY	\$ 5.62	\$ 14,045.05
37	Pavement Markings-Latex	224.4	LF	\$ 7.25	\$ 1,626.90
38	Pavement Markings-Epoxy	76.5	LF	\$ 10.00	\$ 765.00
39	Clearing and Grubbing	1	LS	\$ 1,750.00	\$ 1,750.00
41	Tree Removal	260.74	ID	\$ 30.00	\$ 7,822.20
42	Traffic Control	0.35	LS	\$ 8,500.00	\$ 2,975.00
43	Dust Control	0.63	LS	\$ 675.00	\$ 425.25
44	Salvage and Reset Existing Signs and Mailboxes	1	LS	\$ 300.00	\$ 300.00
45	Remove Landscaping	1	LS	\$ 3,000.00	\$ 3,000.00
46	Sawcut and Remove Concrete Foundation	1	LS	\$ 546.05	\$ 546.05
49	Mobilization	0.35	LS	\$56,400.00	\$ 19,740.00
50	Erosion Control	0.83	LS	\$ 3,025.00	\$ 2,510.75
Subtotal of Bid Contract					\$ 187,091.36

Total Estimated Equivalent 8-inch Water Main Extension & Assessable Costs - Continued

<u>Item</u>		<u>Estimated</u>		<u>Bid Unit</u>	
<u>No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Price</u>	<u>Bid Price</u>
I2	6" C900	24	LF	\$ 7.39	\$ 177.36
I4	Watermain Bricks	0.19	Pallet	\$ 280.40	\$ 53.28
I5	8' Bury Depth Hydrant	1	EA	\$ 2,972.00	\$ 2,972.00
I8	Hydrant Marker	2	EA	\$ 32.00	\$ 64.00
I10	6" Valve	2	EA	\$ 700.00	\$ 1,400.00
I11	6" Megalug	9	EA	\$ 26.00	\$ 234.00
I12	6" Megalug Gasket	2	EA	\$ 3.00	\$ 6.00
I15	Megalug Bolts	57	EA	\$ 5.00	\$ 285.00
Subtotal of Purchased Inventory for Project					\$ 5,191.64
Subtotal of Contract					\$192,283.00
Engineering, Administration, & Contingencies					\$ 57,684.90
Total Project Costs					\$249,967.90

Total Potential Front Footage benefiting from Water Main Extension = 2832.75 feet¹

Computation of Footage Rate: $\frac{\$ 249,967.90}{2832.75 \text{ feet}} = \$ 88.24/\text{foot of Front Footage}$

Use \$ 88.24/foot as the Water Main Footage Rate.

¹ Includes potential footage in deferred assessments.

Total Estimated 1.25-inch Water Service Installation & Assessable Costs

<u>Item No.</u>	<u>Description</u>	<u>Estimated Quantity</u>	<u>Unit</u>	<u>Bid Unit Price</u>	<u>Bid Price</u>
13	1 ¼-IN Water Service W/ Granular Backfill	110	LF	\$ 152.76	\$16,803.60
14	1 ¼-IN Water Service W/ Spoil Backfill	250	LF	\$ 143.93	\$35,982.50
15	1 ¼-IN Corporation Stop, Curb Stop, and Curb Box	8	EA	\$ 837.87	\$ 6,702.96
36	6-IN Topsoil, Seed, Fertilizer, Erosion Mat, and Watering	280.8	SY	\$ 5.62	\$ 1,578.10
Subtotal of Contract					\$61,067.16
Engineering, Administration, & Contingencies					\$18,320.15
Total Project Costs					\$79,387.31

Total Potential Units receiving 1.25-inch Water Service Installations = 8 units¹

Computation of Unit Cost: $\frac{\$70,387.31}{8 \text{ units}} = \$9,923.41/\text{unit}$

Use \$ 9,923.41/unit as the 1.25-inch Water Service Unit Rate.

Total Estimated 2-inch Water Service Installation & Assessable Costs

<u>Item No.</u>	<u>Description</u>	<u>Estimated Quantity</u>	<u>Unit</u>	<u>Bid Unit Price</u>	<u>Bid Price</u>
11	2-IN Water Service	15	LF	\$ 178.72	\$ 2,680.80
12	2-IN Corporation Stop, Curb Stop, and Curb Box	1	EA	\$1,404.41	\$ 1,404.41
36	6-IN Topsoil, Seed, Fertilizer, Erosion Mat, and Watering	28.08	SY	\$ 5.62	\$ 157.81
Subtotal of Contract					\$ 4,243.02
Engineering, Administration, & Contingencies					\$ 1,272.91
Total Project Costs					\$ 5,515.93

Total Potential Units receiving 2-inch Water Service Installations = 1 unit

Computation of Unit Cost: $\frac{\$5,515.93}{1 \text{ unit}} = \$5,515.93/\text{unit}$

Use \$ 5,515.93/unit as the 2-inch Water Service Unit Rate.

¹ PWC 0870999003 is receiving two services.

Total Estimated Water Utility Costs

Total Estimated Water Main Costs (see attached breakdown)	\$ 766,380.20
Estimated Assessable Water Main Costs (Deduct)	\$ (207,621.66)
Estimated Assessable Water Main Costs - Deferred (Deduct)	\$ (18,845.42)
Estimated Assessable 1.25-inch Water Service Costs (Deduct)	\$ (79,387.28)
Estimated Assessable 2-inch Water Service Costs (Deduct)	\$ (5,515.93)
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Total Estimated Water Utility Costs	\$ 455,009.91

Total Estimated Water Utility Costs = \$ 455,009.91

Total Estimated Sanitary Sewer Extension Costs

<u>Item</u>		<u>Estimated</u>		<u>Bid Unit</u>	
<u>No.</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit</u>	<u>Price</u>	<u>Bid Price</u>
19	Install OWNER-Provided 8-IN PVC Sanitary Sewer W/ Granular Backfill	220	LF	\$ 174.53	\$ 38,396.60
20	Install OWNER-Provided 8-IN PVC Sanitary Sewer W/ Spoil Backfill	530	LF	\$ 94.05	\$ 49,846.50
21	4-FT-DIA Sanitary Sewer MH W/ Casting	2	EA	\$ 7,697.74	\$ 15,395.48
22	Connect New Sanitary Sewer to Existing Sanitary Sewer	1	EA	\$ 1,083.42	\$ 1,083.42
23	Install OWNER-Provided 6-IN PVC Sanitary Sewer Lateral	40	LF	\$ 112.34	\$ 4,493.60
24	Rock Excavation	15	LF	\$ 150.00	\$ 2,250.00
36	6-IN Topsoil, Seed, Fertilizer, Erosion Mat, and Watering	900	SY	\$ 5.62	\$ 5,058.00
40	Dewatering	1	LS	\$ 2,000.00	\$ 2,000.00
41	Tree Removal	70.3	ID	\$ 30.00	\$ 2,109.00
42	Traffic Control	0.21	LS	\$ 8,500.00	\$ 1,785.00
43	Dust Control	0.22	LS	\$ 675.00	\$ 148.50
47	Remove and Replace Sand Court	0.44	LS	\$18,400.00	\$ 8,096.00
48	Salvage and Reset Volleyball Net Support	1	LS	\$ 1,800.00	\$ 1,800.00
49	Mobilization	0.21	LS	\$56,400.00	\$ 11,844.00
50	Erosion Control	0.14	LS	\$3,025.00	\$ 423.50
Subtotal of Bid Contract					\$144,729.60
I1	8" C900	748	LF	\$ 12.75	\$ 9,537.00
I2	6" C900	40	LF	\$ 7.39	\$ 295.60
I3	Green Tracer Wire	1000	LF	\$ 0.30	\$ 300.00
I17	2" Adjusting Ring	12	EA	\$ 20.00	\$ 240.00
I18	4" Adjusting Ring	12	EA	\$ 36.00	\$ 432.00
I19	MAC Wrap	20	Roll	\$ 82.50	\$ 1,650.00
Subtotal of Purchased Inventory for Project					\$ 12,454.60
Subtotal of Contract					\$157,184.20
Engineering, Administration, & Contingencies					\$ 47,155.26
Total Project Costs					\$204,339.46

Total Estimated Sanitary Sewer Costs = \$ 204,339.46

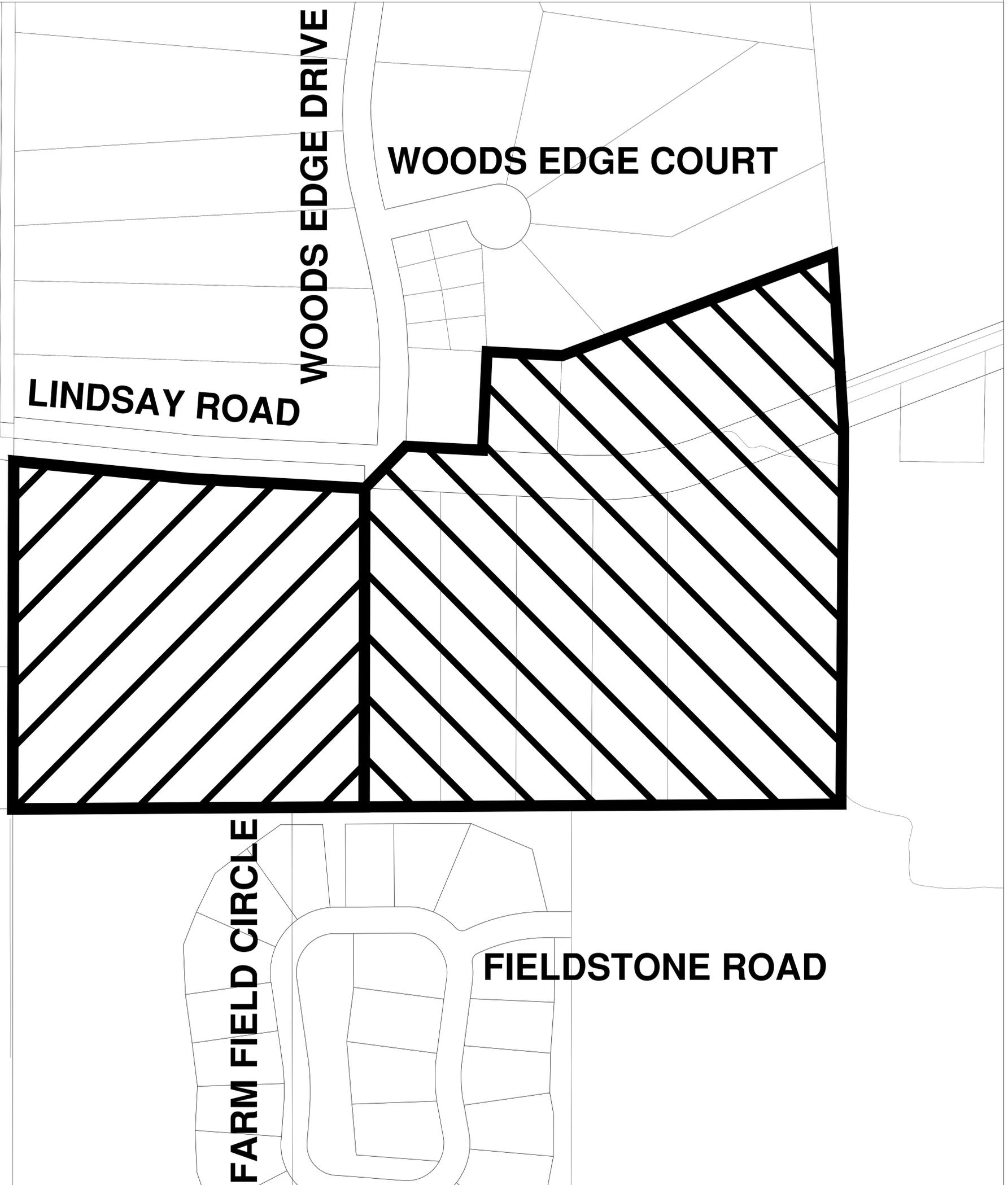
May 20, 2024

An Area of Assessment in the NW $\frac{1}{4}$ of Section 02, T7N, R19E, In the City of Pewaukee, Waukesha County, Wisconsin. Bound and Described as Follows:

Commencing at the West $\frac{1}{4}$ corner of Section 02, T7N, R19E Thence N01°53'47"E Along the West Line of Said NW $\frac{1}{4}$ of Section 2, 797.02 feet to a point on the South R/W Line of Lindsay Road; Thence Along Said R/W line, S82°26'19"E, 410.65 Feet; Thence continuing Along Said R/W line, S85°12'59"E 664.23 feet; Thence N04°47'01"E 3330.00 Feet to the NW Corner of Parcel 23 of CSM #1987; Thence Along the North line of Said Parcel 23, S85°12'59"E, 175.00 Feet, to the NW Corner of CSM #1656; Thence Along the North Line of Said CSM #165, N71°14'02"E, 670.09 Feet to the NE corner of Said CSM #1656; Thence Along an Easterly Line of Said CSM #1656, S03°24'50"E, 46.74 Feet; Thence Along an Easterly line of Said CSM #1656, S03°34'22"E, 249.43 Feet, to a Point on the North R/W line of Lindsay Road; Thence S71°13'50"W Along Said North R/W Line, 4.30 Feet; Thence S02°07'00"W, 966.95 Feet, to the SE Corner of Lot 6 of CSM # 1017, Also being a point on the South Line of Said NW $\frac{1}{4}$ of Section 02; Thence N88°36'44"W Along Said South Line of the NW $\frac{1}{4}$ of Section 02, 1910.90 Feet, to the point of Commencement.

Dave Geis
Senior Engineering Technician
City of Pewaukee

LINDSAY ROAD AREA 2024
SW-24-12814
SANITARY SEWER AND WATER MAIN ASSESSMENT
CITY OF PEWAUKEE
WAUKESHA COUNTY, WISCONSIN



LEGEND



WATER MAIN ASSESSMENT



SEWER & WATER MAIN ASSESSMENT



SCALE IN FEET

DATE: MAY 13, 2024

SCHEDULE C
 PRELIMINARY ASSESSMENT ROLL
 LINDSAY ROAD WATER MAIN EXTENSION
 SW-24-12814

NO.	OWNER'S NAME AND ADDRESS	TAX KEY NO.	DESCRIPTION	UNIT	COST/UNIT	ASSESSMENT	TOTAL ASSESSMENT
1	THOMAS HENCKE REVOCABLE TRUST N44W23675 LINDSAY RD PEWAUKEE, WI 53072-2049	PWC 0870992	Water Main	220 Feet	\$ 88.24	\$ 19,412.80	\$ 29,336.21
			Water Service - 1.25"	1 Each	\$ 9,923.41	\$ 9,923.41	\$ 18,845.42 D
			Water Main - Deferred	213.57 Feet	\$ 88.24	\$ 18,845.42	
2	JACOB N ZIMMERMAN MARIA E ZIMMERMAN N44W23845 LINDSAY RD PEWAUKEE, WI 53072-2038	PWC 0870993	Water Main	175.21 Feet	\$ 88.24	\$ 15,460.53	\$ 25,383.94
			Water Service - 1.25"	1 Each	\$ 9,923.41	\$ 9,923.41	
3	MIKE UMHOEFER MARY UMHOEFER N44W23733 LINDSAY RD PEWAUKEE, WI 53072	PWC 0870994	Water Main	176.55 Feet	\$ 88.24	\$ 15,578.77	\$ 25,502.18
			Water Service - 1.25"	1 Each	\$ 9,923.41	\$ 9,923.41	
4	SAMUEL M SHERMAN N44W23767 LINDSAY RD PEWAUKEE, WI 53072-2037	PWC 0870995	Water Main	175.2 Feet	\$ 88.24	\$ 15,459.65	\$ 25,383.06
			Water Service - 1.25"	1 Each	\$ 9,923.41	\$ 9,923.41	
5	LARRY A BIGSBY LAURIE A BIGSBY N44W23797 LINDSAY RD PEWAUKEE, WI 53072	PWC 0870996	Water Main	175.21 Feet	\$ 88.24	\$ 15,460.53	\$ 25,383.94
			Water Service - 1.25"	1 Each	\$ 9,923.41	\$ 9,923.41	
6	CITY OF PEWAUKEE (BALMER PARK) C/O CITY TREASURER W240N3065 PEWAUKEE RD PEWAUKEE, WI 53072	PWC 0870999001	Water Main	815.75 Feet	\$ 88.24	\$ 71,981.78	\$ 77,497.71
			Water Service - 2"	1 Each	\$ 5,515.93	\$ 5,515.93	
7	COLLINS 2004 REVOCABLE TRUST N45W23714 LINDSAY RD PEWAUKEE, WI 53072-2019	PWC 0870999003	Water Main	440 Feet	\$ 88.24	\$ 38,825.60	\$ 58,672.42
			Water Service - 1.25"	2 Each	\$ 9,923.41	\$ 19,846.82	\$ 23,494.78 D
			Water Main- Deferred	266.26 Feet	\$ 88.24	\$ 23,494.78	

SCHEDULE C
 PRELIMINARY ASSESSMENT ROLL
 LINDSAY ROAD WATER MAIN EXTENSION
 SW-24-12814

NO.	OWNER'S NAME AND ADDRESS	TAX KEY NO.	DESCRIPTION	UNIT	COST/UNIT	ASSESSMENT	TOTAL ASSESSMENT
8	MARK A IGNATEW CARMEN M IGNATEW N45W23792 LINDSAY RD PEWAUKEE, WI 53072	PWC 0870999026	Water Main Water Service - 1.25"	175 Feet 1 Each	\$ 88.24 \$ 9,923.41	\$ 15,442.00 \$ 9,923.41	\$ 25,365.41

TOTAL CONTRIBUTION IN AID OF WATER MAIN CONSTRUCTION	\$ 207,621.66
TOTAL CONTRIBUTION IN AID OF WATER SERVICE - 1.25" INSTALLATION	\$ 79,387.28
TOTAL CONTRIBUTION IN AID OF WATER SERVICE - 2" INSTALLATION	\$ 5,515.93
TOTAL CONTRIBUTION IN AID OF WATER MAIN CONSTRUCTION - Deferred	\$ 18,845.42

The properties against which contributions in aid of construction are proposed are benefited and the improvements constitute an exercise in Police Powers