

October 20, 2023

Mr. Mike Schechtman
Forest Preserves District of Cook County
Department of Planning and Development
536 N. Harlem Avenue
River Forest, IL 60305

**Subject: Tree Mitigation Plan
 Albert Davis Water Main
 Village of Morton Grove**

Dear Mr. Schechtman:

On behalf of the Village of Morton Grove, please find under this transmittal the Tree Mitigation Plan for the Albert Davis Water Main Project:

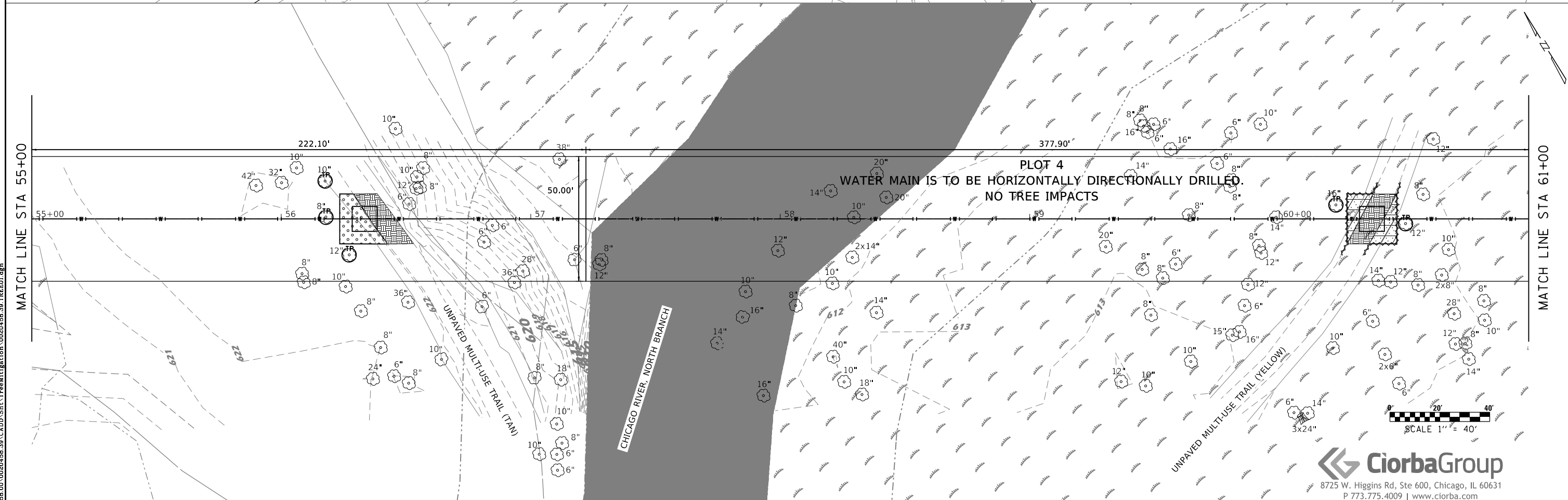
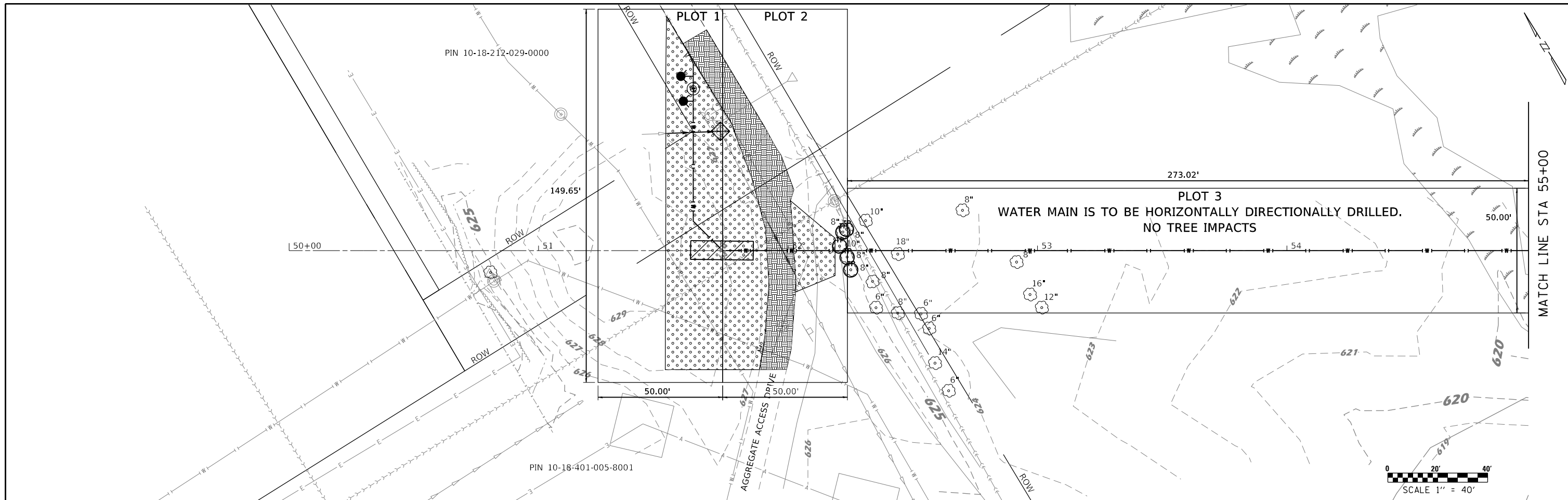
- Tree Mitigation Plan Exhibit
- 2023 Tree Valuation Tables
- Albert Davis Water Main Plan Set

If you have any questions or require additional information, please contact Mr. Chris Tomich, P.E., Village Engineer at the Village of Morton Grove.

Sincerely,
Ciorba Group, Inc.



Luke A. Mattson, P.E.
Water Resources Project Engineer



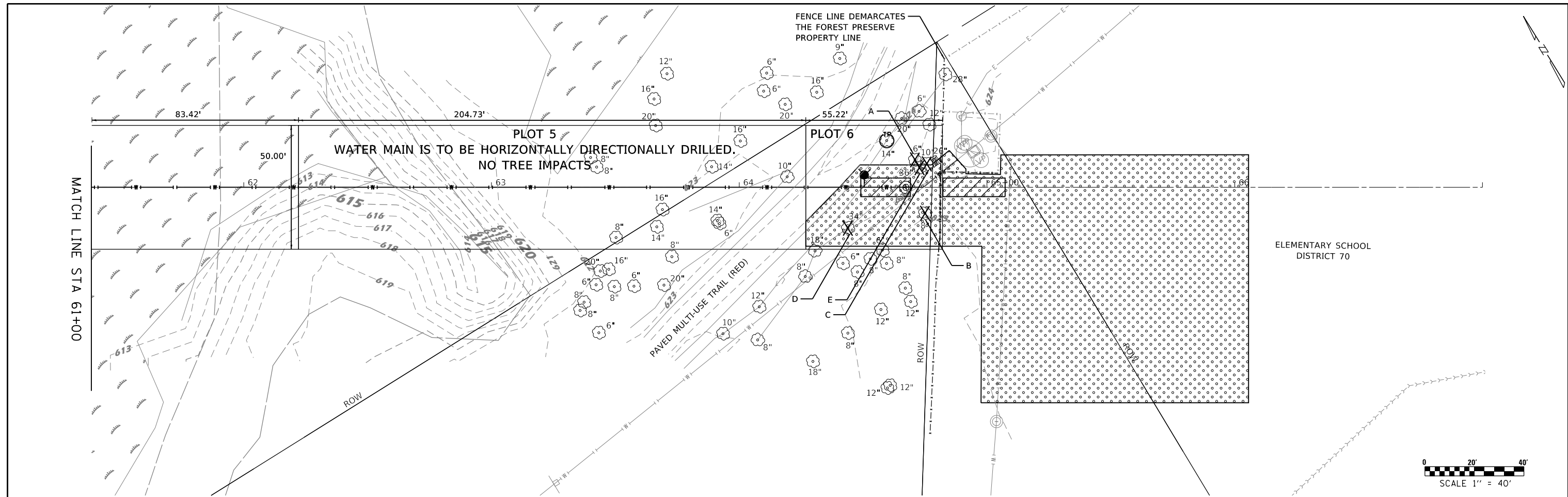
VILLAGE OF MORTON GROVE
ENGINEERING DIVISION

PROJECT No.	0020458.39	PROJECT NAME.	ALBERT DAVIS WATER MAIN		
Designed by: LAM	Drawn by: CLG	FILE NAME:	N:\PROJ\0020458.00\0020458.39\CADD\Sheet\TreeMitigation\0020458.39.TREE01.dgn	SCALE:	40.0000' / in.
Design chk: LAM	Drafting chk: LAM	DATE:	10/20/2023		

ALBERT DAVIS WATER MAIN
TREE MITIGATION PLAN

REVISIONS				SHEET:
NAME:	DATE:	NAME:	DATE:	
				1 / 2

CiorbaGroup
8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
P 773.775.4009 | www.ciorba.com



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Tree Mitigation Review Form

Applicant Name Village of Morton Grove	Internal Project Number (if applicable) 20458.39
Project Name Albert Davis Water Main	

Live Trees Complete using Table A	1a Total number of trees w/ multiplier of 1 / C =>5	1a	0	b Value.	1b	\$ -
	2a Total number of trees w/ multiplier of .75 / C=2-4	2a	2	b Value.	2b	\$ 124,960.03
	3a Total number of trees w/ multiplier of .50 / C=0-1	3a	0	b Value.	3b	\$ -
	4a Total number of trees w/ multiplier of .20 / NN	4a	3	b Value.	4b	\$ 2,718.00
	5 Add lines 1b through 4b. This is your total fee for live trees.	5				\$ 127,678.03

Dead Trees Complete using Table B	6a Total number of trees w/ multiplier of 1 / C =>5	6a	0	b Value.	6b	\$ -
	7a Total number of trees w/ multiplier of .75 / C=2-4	7a	0	b Value.	7b	\$ -
	8a Total number of trees w/ multiplier of .50 / C=0-1	8a	0	b Value.	8b	\$ -
	9a Total number of trees w/ multiplier of .20 / NN	9a	0	b Value.	9b	\$ -
	10 Add lines 6b through 9b.	10				\$ -
11 Multiply line 10 by 0.50. This is your total fee for dead trees.	11				\$ -	

Coarse Woody Debris Complete using Table C	12a Total length of plots with low concentration / 10-49%	12a	56	b Value.	12b	\$ 1,685.77
	13a Total length of plots with high concentration / >=50%	13a	0	b Value.	13b	\$ -
	14a Total length of plots with N/A concentration / <10%	14a	1505	b Value.	14b	\$ -
	15 Add lines 12b through 14b. This is your total fee for coarse woody debris.	15				\$ 1,685.77

Total Tree Mitigation Fee	16 Add lines 5, 11, and 16. This is your total tree mitigation fee.	16				\$ 129,363.80
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Required Enclosures The following attachments are required as part of your application.	Tree Survey maps and GIS data	<input checked="" type="checkbox"/>
	Table A: Tree Valuation Matrix for Live Trees	<input checked="" type="checkbox"/>
	Table B: Tree Valuation Matrix for Dead Trees	<input type="checkbox"/>
	Table C: Tree Valuation Matrix for Coarse Woody Debris	<input checked="" type="checkbox"/>



Table A: Tree Valuation Matrix for Live Trees

Instructions: Complete the highlighted column for every live tree surveyed/inventoried. Indicate species and location from the dropdown menus, where indicated. Click the "Add New Row" button at the bottom of the table for additional lines. Delete any unused entry rows showing #REF! or #N/A errors.

OBJECTID *	STARTING DIAMETER (DBH)	MULTI-STEM? (yes or no)	SPECIES (select from dropdown)	YEAR SCHEDULED TO BE REMOVED	ANTICIPATED GROWTH	YEARS UNTIL REMOVAL	TOTAL DIAMETER	RADIUS	RADIUS SQ	PI	BASIC VALUE PER INCH CROSS SECTION	MAX TREE VALUE	LOCATION (select from dropdown)	LOCATION/C ONDITION MULTIPLIER	ADJUSTED BASE TREE VALUE	Native Index value of 5 or greater	Total \$ for trees w/ multiplier of 1	Native Index value of 2 to 4	Total \$ for trees w/ multiplier of .75	Native Index value of 1 or 0	Total \$ for trees w/ multiplier of .50	Non-native trees	Total \$ for trees w/ multiplier of .20
A	6	NO	Prunus avium	2024		0	1	6	3.00	9.00	3.14	133.17	3763.38	INP/ILWR	0.65	2446.20	0 \$ -		0 \$ -		0 \$ -		0.2 \$ 489.24
B	8	NO	Prunus avium	2024	0.131		1	8	4.00	16.00	3.14	133.17	6690.46	INP/ILWR	0.65	4348.80	0 \$ -		0 \$ -		0 \$ -		0.2 \$ 869.76
C	10	NO	Prunus avium	2024	0.131		1	10	5.00	25.00	3.14	133.17	10453.85	INP/ILWR	0.65	6795.00	0 \$ -		0 \$ -		0 \$ -		0.2 \$ 1,359.00
D	34	NO	Populus deltoides	2024	0.24		1	34	17.00	289.00	3.14	133.17	120846.45	INP/ILWR	0.65	78550.19	0 \$ -		0.75 \$ 58,912.64		0 \$ -		0 \$ -
E	36	NO	Populus deltoides	2024	0.24		1	36	18.00	324.00	3.14	133.17	135481.83	INP/ILWR	0.65	88063.19	0 \$ -		0.75 \$ 66,047.39		0 \$ -		0 \$ -

Add New Row

Box 1a	Box 1b	Box 2a	Box 2b	Box 3a	Box 3b	Box 4a	Box 4b
Total # of trees w/ multiplier of 1	Total \$ for trees w/ multiplier of 1	Total # of trees w/ multiplier of .75	Total \$ for trees w/ multiplier of .75	Total # of trees w/ multiplier of .5	Total \$ for trees w/ multiplier of .50	Total # of trees w/ multiplier of .2	Total \$ for trees w/ multiplier of .20
0	\$ -	2	\$ 124,960.03	0	\$ -	3	\$ 2,718.00

TOTAL LIVE TREES:
5

TOTAL MITIGATION (LIVE TREES):
\$127,678.03

Box 5



Table B: Tree Valuation Matrix for Dead Trees

Instructions: Complete the highlighted column for every standing or leaning dead tree surveyed/inventoried. The live value of each tree will be initially calculated, and subsequently reduced by the appropriate factor. Indicate species and location from the dropdown menus, where indicated. Click the "Add New Row" button at the bottom of the table for additional lines. Delete any unused entry rows showing #REF! or #N/A errors.

STEP 1: LIVE VALUE																			
OBJECTID *	STARTING DIAMETER (DBH)	MULTI-STEM? (yes or no)	SPECIES (select from dropdown)	RADIUS	RADIUS SQ	PI	BASIC VALUE PER INCH CROSS SECTION	MAX TREE VALUE	LOCATION (select from dropdown)	LOCATION/C ONDITION MULTIPLIER	ADJUSTED BASE TREE VALUE	Native Index value of 5 or greater	Total \$ for trees w/ multiplier of 1	Native Index value of 2 to 4	Total \$ for trees w/ multiplier of .75	Native Index value of 1 or 0	Total \$ for trees w/ multiplier of .50	Non-native trees	Total \$ for trees w/ multiplier of .20
			-	0.00	0.00	3.14	133.17	0.00	General	0.585	0.00	0 \$	-	0 \$	-	0 \$	-	0 \$	-
			-	0.00	0.00	3.14	133.17	0.00	General	0.585	0.00	0 \$	-	0 \$	-	0 \$	-	0 \$	-
			-	0.00	0.00	3.14	133.17	0.00	General	0.585	0.00	0 \$	-	0 \$	-	0 \$	-	0 \$	-
			-	0.00	0.00	3.14	133.17	0.00	General	0.585	0.00	0 \$	-	0 \$	-	0 \$	-	0 \$	-

Add New Row

Box 6a Total # of trees w/ multiplier of 1	Box 6b Total \$ for trees w/ multiplier of 1	Box 7a Total # of trees w/ multiplier of .75	Box 7b Total \$ for trees w/ multiplier of .75	Box 8a Total # of trees w/ multiplier of .5	Box 8b Total \$ for trees w/ multiplier of .50	Box 9a Total # of trees w/ multiplier of .2	Box 9b Total \$ for trees w/ multiplier of .20
0	\$ -	0	\$ -	0	\$ -	0	\$ -

TOTAL DEAD TREES:
0

TOTAL LIVE VALUE OF DEAD TREES:
\$0.00
Box 10

STEP 2:	
Live Value x (0.50) =	TOTAL MITIGATION (DEAD TREES): \$0.00 <i>Box 11</i>



Forest Preserve District of Cook County

Version: 2023.01

Table C: Tree Valuation Matrix for Coarse Woody Debris

Instructions: Complete a section for each survey plot across the length of the project area, assigning a debris concentration based on the criteria detailed in the Tree Mitigation Plan. The value of coarse woody debris for each plot will be calculated. The total combined length of all plots should match the project area length listed on the applicant's land use request.

1	PLOT ID	PLOT LENGTH (500 ft. max)	PLOT WIDTH (FT)	SQ FT	ACRES	DEBRIS CONCENTRATION (select from dropdown)	VALUE PER ACRE
	PLOT 1	150	50	7500	0.17218	N/A (<10%)	\$ -
TOTAL MITIGATION FOR PLOT PLOT 1							\$ -

2	PLOT ID	PLOT LENGTH (500 ft. max)	PLOT WIDTH (FT)	SQ FT	ACRES	DEBRIS CONCENTRATION (select from dropdown)	VALUE PER ACRE
	PLOT 2	150	50	7500	0.17218	N/A (<10%)	\$ -
TOTAL MITIGATION FOR PLOT PLOT 2							\$ -

3	PLOT ID	PLOT LENGTH (500 ft. max)	PLOT WIDTH (FT)	SQ FT	ACRES	DEBRIS CONCENTRATION (select from dropdown)	VALUE PER ACRE
	PLOT 3	500	50	25000	0.57392	N/A (<10%)	\$ -
TOTAL MITIGATION FOR PLOT PLOT 3							\$ -

4	PLOT ID	PLOT LENGTH (500 ft. max)	PLOT WIDTH (FT)	SQ FT	ACRES	DEBRIS CONCENTRATION (select from dropdown)	VALUE PER ACRE
	PLOT 4	500	50	25000	0.57392	N/A (<10%)	\$ -
TOTAL MITIGATION FOR PLOT PLOT 4							\$ -

5	PLOT ID	PLOT LENGTH (500 ft. max)	PLOT WIDTH (FT)	SQ FT	ACRES	DEBRIS CONCENTRATION (select from dropdown)	VALUE PER ACRE
	PLOT 5	205	50	10250	0.23531	N/A (<10%)	\$ -
TOTAL MITIGATION FOR PLOT PLOT 5							\$ -

6	PLOT ID	PLOT LENGTH (500 ft. max)	PLOT WIDTH (FT)	SQ FT	ACRES	DEBRIS CONCENTRATION (select from dropdown)	VALUE PER ACRE
	PLOT 6	56	50	2800	0.06428	Low/Moderate (10% - 49%)	\$ 26,225.38
TOTAL MITIGATION FOR PLOT PLOT 6							\$ 1,685.77

7	PLOT ID	PLOT LENGTH (500 ft. max)	PLOT WIDTH (FT)	SQ FT	ACRES	DEBRIS CONCENTRATION (select from dropdown)	VALUE PER ACRE
		0	0	0	0.00000	-	\$ -
TOTAL MITIGATION FOR PLOT							\$ -

8	PLOT ID	PLOT LENGTH (500 ft. max)	PLOT WIDTH (FT)	SQ FT	ACRES	DEBRIS CONCENTRATION (select from dropdown)	VALUE PER ACRE
		0	0	0	0.00000	-	\$ -
TOTAL MITIGATION FOR PLOT							\$ -

TOTAL VALUE OF COARSE WOODY DEBRIS:

\$1,685.77

TOTAL COMBINED LENGTH OF ALL PLOTS:

1561 Feet

Box 15

Box 12a Total length of plots with low/moderate debris concentration	Box 12b Total \$ for plots with low/moderate debris concentration	Box 13a Total length of plots with heavy debris concentration	Box 13b Total \$ for plots with heavy debris concentration	Box 14a Total length of plots with N/A debris concentration	Box 14b Total \$ for plots with N/A debris concentration
56	\$ 1,685.77	0	\$ -	1505	\$ -