

51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

#### **PRELIMINARY ESTIMATE**

**AEW PROJECT NO. 0175-0120** 

PROJECT: Water Asset Management Report Updates

Woodside park Blvd. - Oakdale to Ridge

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

	DATE:			72020		
WORK ITEM	QUANTITY	UNIT	l	JNIT PRICE		AMOUNT
Water Main		_	_		_	
_ Water Main Abandon, 8 inch	1350	FT	\$	10.00	\$	13,500.00
_ Fire Hydrant, Assembely	2	Each	\$	5,000.00	\$	10,000.00
Fire Hydrant, Rem	2	Each	\$	675.00	\$	1,350.00
Gate Valve and Well, 8 inch	2	Each	\$	6,200.00	\$	12,400.00
_Gate Valve and Well, Rem	2	Each	\$	1,000.00	\$	2,000.00
_ Water Main, C900 PVC, 8 inch, Directional Drill	1350	FT	\$	160.00	\$	216,000.00
_ Water Main Connection, 6 inch	1	Each	\$	3,500.00	\$	3,500.00
_ Water Main Connection, 10 inch	1	Each	\$	5,500.00	\$	5,500.00
Water Service (WM to Valve Box)	16	Each	\$	900.00	\$	14,400.00
Water Service, Long (WM to Valve Box)	16	Each	\$	1,900.00	\$	30,400.00
_ Water Service, Special	32	Each	\$	4,500.00	\$	144,000.00
Mismarked Water Services	16	Hrs	\$		\$	5,600.00
_			·		·	•
Pavement						
Pavt Repr, Rem	199	Syd	\$	10.00	\$	1,990.00
Pavt Repr, Nonreinf Conc, 8 inch	199	Syd	\$	90.00	\$	17,910.00
Curb and Gutter, Rem	70	FT	\$	10.00	\$	700.00
Curb and Gutter, Conc, Det F4, Modified	70	FT	\$	25.00	\$	1,750.00
Sidewalk, Rem	265	Syd	\$	9.00	\$	2,385.00
Sidewalk, Conc, 4 inch	2300	Sft	\$	6.00	\$	13,800.00
Sidewalk Ramp, Conc, 8 inch	80	Sft	\$	9.50	\$	760.00
Aggregate Base, 6 inch	384	Syd	\$	10.00	\$	3,840.00
_ Driveway, Rem	169	Syd	\$	11.00	\$	1,859.00
Driveway, Nonreinf Conc, 8 inch	169	Syd	\$	60.00	\$	10,140.00
briveway, Normenii cone, o men	103	Syu	Y	00.00	Y	10,140.00
Soil Erosion						
_ Erosion Control, Inlet Filter	12	Each	\$	175.00	\$	2,100.00
Turf Establishment	1	LSUM	\$	10,000.00		10,000.00
_ run Establishment	-	250111	7	10,000.00	~	10,000.00
MISC Work						
Mobilization, Max 8%	1	LSUM	\$	44,760.00	\$	44,760.00
Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$	5,000.00
Permitting Allowance	1	LSUM	\$	1,500.00	\$	1,500.00
Tree, Rem, 19 inch to 36 inch	3	Each	\$	1,200.00	\$	3,600.00
Tree, Rem, 6 inch to 18 inch	10	Each	\$	750.00	\$	7,500.00
Tree, Rem, Less than 6 inch	7	Each	\$	500.00	\$	3,500.00
_ Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00		2,500.00
_ Additional Record of Constitution Area  Maintenance Gravel	200	TON	۶ \$	50.00	\$ \$	10,000.00
ivialite flatice Graver	200	TON			<u> </u>	
				TOTAL COST	>	604,244.00
CONSTRUCTION COST					Ļ	604 244 00
CONSTRUCTION COST					\$	604,244.00
Design Engineering (6.8%)					\$	41,090.00
Construction Engineering (15%)					\$	90,640.00
Material Testing (1.5%)					\$	9,060.00
Contingencies (10%)					\$	60,420.00
TOTAL COST					\$	805,454.00

### NOTE:

Design Engineering includes topographical survey, design and preparation of bid documents.



ANDERSON, ECRSTEIN & 51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

#### **PRELIMINARY ESTIMATE**

**AEW PROJECT NO. 0175-0120** 

PROJECT: Water Asset Management Report Updates

Kenberton Drive - Oakdale to Ridge

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

	DATE.		2/0	72020		
WORK ITEM	QUANTITY	UNIT	l	JNIT PRICE		AMOUN <sup>-</sup>
Water Main						
_ Water Main Abandon, 6 inch	1360	FT	\$	8.00	\$	10,880.00
_ Fire Hydrant, Assembely	2	Each	\$	5,000.00	\$	10,000.00
Fire Hydrant, Rem	2	Each	\$	675.00	\$	1,350.00
Gate Valve and Well, 8 inch	2	Each	\$	6,200.00	\$	12,400.00
_Gate Valve and Well, Rem	2	Each	\$	1,000.00	\$	2,000.00
Water Main, C900 PVC, 8 inch, Directional Drill	1360	FT	\$	160.00	\$	217,600.00
_ Water Main Connection, 6 inch	1	Each	\$	3,500.00	\$	3,500.00
Water Main Connection, 10 inch	1	Each	\$	5,500.00	\$	5,500.00
Water Service (WM to Valve Box)	11	Each	\$	900.00	\$	9,900.00
Water Service, Long (WM to Valve Box)	11	Each	\$	1,900.00	\$	20,900.00
_ Water Service, Special	22	Each	\$	4,500.00	\$	99,000.00
_ Mismarked Water Services	16	Hrs	\$	350.00	\$	5,600.00
_ Wishiarked Water Services	10	1113	Y	330.00	Y	3,000.00
<u>Pavement</u>						
Pavt Repr, Rem	153	Syd	\$	10.00	\$	1,530.00
Pavt Repr, Nonreinf Conc, 8 inch	153	Syd	\$	90.00	\$	13,770.00
Curb and Gutter, Rem	88	FT	\$	10.00	\$	880.00
_ Curb and Gutter, Conc, Det F4, Modified	88	FT	\$	25.00	\$	2,200.00
Sidewalk, Rem	215	Syd	\$	9.00	\$	1,935.00
Sidewalk, Conc, 4 inch	1859	Sft	\$	6.00	\$	11,154.00
Sidewalk Ramp, Conc, 8 inch	70	Sft	\$	9.50	\$	665.00
Aggregate Base, 6 inch	232	Syd	\$	10.00	\$	2,320.00
_ Driveway, Rem	59	Syd	\$	11.00	\$	649.00
Driveway, Nonreinf Conc, 8 inch	59	Syd	\$	60.00	\$	3,540.00
Soil Erosion						
Erosion Control, Inlet Filter	13	Each	\$	175.00	Ś	2,275.00
Turf Establishment	1	LSUM	\$	10,000.00		10,000.00
	_	200	*	20,000.00	Ψ.	10,000.00
MISC Work						
Mobilization, Max 8%	1	LSUM	\$	38,020.00	\$	38,020.00
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$	5,000.00
_ Permitting Allowance	1	LSUM	\$	1,500.00	\$	1,500.00
Tree, Rem, 19 inch to 36 inch	1	Each	\$	1,200.00	\$	1,200.00
Tree, Rem, 6 inch to 18 inch	6	Each	\$	750.00	\$	4,500.00
_ Tree, Rem, Less than 6 inch	2	Each	\$	500.00	\$	1,000.00
_ Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$	2,500.00
Maintenance Gravel	200	TON	\$	50.00	\$	10,000.00
			-	TOTAL COST	\$	513,268.00
CONSTRUCTION COST					\$	513,268.00
Design Engineering (6.9%)					\$	35,420.00
Construction Engineering (15%)					\$	76,990.00
Material Testing (1.5%)					\$	7,700.00
Contingencies (10%)					۶ \$	51,330.00
TOTAL COST					\$	
IOTAL COST					Ş	684,708.00
NOTE:						

Design Engineering includes topographical survey, design and preparation of bid documents.



ANDERSON, ECRSTEIN & 51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

#### **PRELIMINARY ESTIMATE**

AEW PROJECT NO. 0175-0120

PROJECT: Water Asset Management Report Updates

Elm Park Ave. - Oakdale to Ridge

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

		DATE:		5/2020			
WORK ITEM	QUANTITY	UNIT	UNIT PRICE			AMOUN	
Water Main							
_ Water Main Abandon, 6 inch	1350	FT	\$	8.00	\$	10,800.00	
_ Fire Hydrant, Assembely	3	Each	\$	5,000.00	\$	15,000.00	
Fire Hydrant, Rem	3	Each	\$	675.00	\$	2,025.00	
Gate Valve and Well, 8 inch	2	Each	\$	6,200.00	\$	12,400.00	
_Gate Valve and Well, Rem	2	Each	\$	1,000.00	\$	2,000.00	
Water Main, C900 PVC, 8 inch, Directional Drill	1350	FT	\$	160.00	\$	216,000.00	
_ Water Main Connection, 6 inch	1	Each	\$	3,500.00	\$	3,500.00	
Water Main Connection, 10 inch	1	Each	\$	5,500.00	\$	5,500.00	
Water Service (WM to Valve Box)	13	Each	\$	900.00	\$	11,700.00	
Water Service, Long (WM to Valve Box)	13	Each	\$	1,900.00	\$	24,700.00	
_ Water Service, Special	26	Each	\$	4,500.00	\$	117,000.00	
_ Mismarked Water Services	16	Hrs	\$	350.00	\$	5,600.00	
Pavement							
Pavt Repr, Rem	171	Syd	\$	10.00	\$	1,710.00	
Pavt Repr, Nonreinf Conc, 8 inch	171	Syd	\$	90.00	\$	15,390.00	
Curb and Gutter, Rem	196	FT	\$	10.00	\$	1,960.00	
_ Curb and Gutter, Conc, Det F4, Modified	196	FT	\$	25.00	\$	4,900.00	
Sidewalk, Rem	233	Syd	\$	9.00	\$	2,097.00	
Sidewalk, Conc, 4 inch	2000	Sft	\$	6.00	\$	12,000.00	
Sidewalk Ramp, Conc, 8 inch	90	Sft	\$	9.50	\$	855.00	
Aggregate Base, 6 inch	315	Syd	\$	10.00	\$	3,150.00	
_ Driveway, Rem	100	Syd	\$	11.00	\$	1,100.00	
Driveway, Nonreinf Conc, 8 inch	100	Syd	\$	60.00	\$	6,000.00	
Soil Erosion							
_ Erosion Control, Inlet Filter	8	Each	\$	175.00	\$	1,400.00	
Turf Establishment	1	LSUM	\$	10,000.00		10,000.00	
_ Turi Escusioninene	-	LOCIVI	Y	10,000.00	Y	10,000.00	
MISC Work							
Mobilization, Max 8%	1	LSUM	\$	41,030.00	\$	41,030.00	
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$	5,000.00	
_ Permitting Allowance	1	LSUM	\$	1,500.00	\$	1,500.00	
Tree, Rem, 19 inch to 36 inch	2	Each	\$	1,200.00	\$	2,400.00	
Tree, Rem, 6 inch to 18 inch	5	Each	\$	750.00	\$	3,750.00	
_ Tree, Rem, Less than 6 inch	2	Each	\$	500.00	\$	1,000.00	
_ Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$	2,500.00	
Maintenance Gravel	200	TON	\$	50.00 TOTAL COST		10,000.00	
				IOTAL COST	Þ	553,967.00	
CONSTRUCTION COST					\$	553,967.00	
Design Engineering (6.8%)					\$	37,670.00	
Construction Engineering (15%)					\$	83,100.00	
Material Testing (1.5%)					\$	8,310.00	
Contingencies (10%)					\$	55,400.00	
TOTAL COST				•	\$	738,447.00	
NOTE:							
NOTE. Design Engineering includes topographical survey, design ar	nd preparation of hid do	ruments					
Construction Forms and a land of a partner to the construction for the c	a preparation of bid do	ounicits.					



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#### **PRELIMINARY ESTIMATE**

AEW PROJECT NO. 0175-0120

PROJECT: Water Asset Management Report Updates

Norwich Road - Oakdale to Ridge

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

	DATE:		2/5	/2020		
WORK ITEM	QUANTITY	UNIT	U	JNIT PRICE		AMOUNT
Water Main						
_ Water Main Abandon, 6 inch	1360	FT	\$	8.00	\$	10,880.00
Fire Hydrant, Assembely	2	Each	\$	5,000.00	\$	10,000.00
Fire Hydrant, Rem	2	Each	\$	675.00	\$	1,350.00
Gate Valve and Well, 8 inch	3	Each	\$	6,200.00	\$	18,600.00
_Gate Valve and Well, Rem	3	Each	\$	1,000.00	\$	3,000.00
_ Water Main, C900 PVC, 8 inch, Directional Drill	1360	FT	\$	160.00	\$	217,600.00
_ Water Main, esoor ve, o men, birectional brill _ Water Main Connection, 6 inch	1	Each	\$	3,500.00	\$	3,500.00
	1	Each	\$	5,500.00	\$	5,500.00
Water Service (WM to Valve Box)	14	Each	\$	900.00	\$	12,600.00
Water Service, Long (WM to Valve Box)	17	Each	\$	1,900.00	\$	32,300.00
_ Water Service, Special	31	Each	\$	4,500.00	\$	139,500.00
_ Mismarked Water Services	16	Hrs	\$	350.00	\$	5,600.00
<u>Pavement</u>						
Pavt Repr, Rem	207	Syd	\$	10.00	\$	2,070.00
Pavt Repr, Nonreinf Conc, 8 inch	207	Syd	\$	90.00	\$	18,630.00
Curb and Gutter, Rem	86	FT	\$	10.00	\$	860.00
_ Curb and Gutter, Conc, Det F4, Modified	86	FT	\$	25.00	\$	2,150.00
Sidewalk, Rem	252	Syd	\$	9.00	\$	2,268.00
Sidewalk, Conc, 4 inch	2240	Sft	\$	6.00	\$	13,440.00
Sidewalk Ramp, Conc, 8 inch	27	Sft	\$	9.50	\$	256.50
Aggregate Base, 6 inch	329	Syd	\$	10.00	\$	3,290.00
_ Driveway, Rem	102	Syd	\$	11.00	\$	1,122.00
Driveway, Nonreinf Conc, 8 inch	102	Syd	\$	60.00	\$	6,120.00
Call Francis						
Soil Erosion	0	F	4	475.00	ċ	4 400 00
_ Erosion Control, Inlet Filter	8	Each	\$	175.00	\$	1,400.00
_ Turf Establishment	1	LSUM	\$	10,000.00	\$	10,000.00
MISC Work						
Mobilization, Max 8%	1	LSUM	\$	43,910.00	\$	43,910.00
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$	5,000.00
_ Permitting Allowance	1	LSUM	\$	1,500.00	\$	1,500.00
Tree, Rem, 19 inch to 36 inch	3	Each	\$	1,200.00	\$	3,600.00
Tree, Rem, 6 inch to 18 inch	5	Each	\$	750.00	\$	3,750.00
_ Tree, Rem, Less than 6 inch	1	Each	\$	500.00	\$	500.00
Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$	2,500.00
Maintenance Gravel	200	TON	\$	50.00	\$	10,000.00
				TOTAL COST		592,796.50
CONSTRUCTION COST					\$	592,796.50
Design Engineering (6.8%)					\$	40,310.00
Construction Engineering (15%)					\$	88,920.00
Material Testing (1.5%)					\$	8,890.00
Contingencies (10%)					\$	59,280.00
TOTAL COST					\$	790,196.50
NOTE:						

#### NOTE:

Design Engineering includes topographical survey, design and preparation of bid documents.



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PRELIMINARY ESTIMATE

AEW PROJECT NO. 0175-0120

PROJECT: Water Asset Management Report Updates

Hanover Road - Oakdale to Ridge

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

	DATE:		2/5/2020			
WORK ITEM	QUANTITY	UNIT	l	JNIT PRICE		AMOUNT
Water Main						
_ Water Main Abandon, 6 inch	1350	FT	\$	8.00	\$	10,800.00
_ Fire Hydrant, Assembely	2	Each	\$	5,000.00	\$	10,000.00
Fire Hydrant, Rem	2	Each	\$	675.00	\$	1,350.00
Gate Valve and Well, 8 inch	3	Each	\$	6,200.00	\$	18,600.00
_Gate Valve and Well, Rem	3	Each	\$	1,000.00	\$	3,000.00
Water Main, C900 PVC, 8 inch, Directional Drill	1350	FT	\$	160.00	\$	216,000.00
Water Main Connection, 6 inch	1	Each	\$	3,500.00	\$	3,500.00
Water Main Connection, 10 inch	1	Each	\$	5,500.00	\$	5,500.00
Water Service (WM to Valve Box)	15	Each	\$	900.00	\$	13,500.00
Water Service, Long (WM to Valve Box)	20	Each	\$	1,900.00	\$	38,000.00
_ Water Service, Special	35	Each	\$	4,500.00	\$	157,500.00
Mismarked Water Services	16	Hrs	\$	350.00	\$	5,600.00
_ INISHIAINEA VALEE SELVICES	10	1113	Y	330.00	7	3,000.00
<u>Pavement</u>						
Pavt Repr, Rem	225	Syd	\$	10.00	\$	2,250.00
Pavt Repr, Nonreinf Conc, 8 inch	225	Syd	\$	90.00	\$	20,250.00
Curb and Gutter, Rem	40	FT	\$	10.00	\$	400.00
_ Curb and Gutter, Conc, Det F4, Modified	40	FT	\$	25.00	\$	1,000.00
Sidewalk, Rem	281	Syd	\$	9.00	\$	2,529.00
Sidewalk, Conc, 4 inch	2435	Sft	\$	6.00	\$	14,610.00
Sidewalk Ramp, Conc, 8 inch	90	Sft	\$	9.50	\$	855.00
Aggregate Base, 6 inch	327	Syd	\$	10.00	\$	3,270.00
_ Driveway, Rem	93	Syd	\$	11.00	\$	1,023.00
Driveway, Nonreinf Conc, 8 inch	93	Syd	\$	60.00	\$	5,580.00
Soil Erosion						
Erosion Control, Inlet Filter	8	Each	\$	175.00	\$	1,400.00
Turf Establishment	1	LSUM	\$	10,000.00	\$	10,000.00
_			•	•		•
MISC Work						
Mobilization, Max 8%	1	LSUM	\$	45,910.00	\$	45,910.00
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$	5,000.00
_ Permitting Allowance	1	LSUM	\$	1,500.00	\$	1,500.00
Tree, Rem, 19 inch to 36 inch	3	Each	\$	1,200.00	\$	3,600.00
Tree, Rem, 6 inch to 18 inch	5	Each	\$	750.00	\$	3,750.00
_ Tree, Rem, Less than 6 inch	2	Each	\$	500.00	\$	1,000.00
Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$	2,500.00
Maintenance Gravel	200	TON	\$		\$	10,000.00
				TOTAL COST		619,777.00
CONSTRUCTION COST					\$	619,777.00
Design Engineering (6.8%)					\$	42,140.00
Construction Engineering (15%)					ب \$	92,970.00
Material Testing (1.5%)					۶ \$	9,300.00
Contingencies (10%)					\$ \$	
						61,980.00
TOTAL COST					\$	826,167.00
NOTE:						
Design Engineering includes topographical survey, design ar	nd preparation of bid do	cuments.				



ANDERSON, ECRSTEIN & 51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

PRELIMINARY ESTIMATE

**AEW PROJECT NO. 0175-0120** 

PROJECT: Water Asset Management Report Updates

Cambridge Blvd. - Maplefield to Ridge

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

	DATE.			0/2020	_	
WORK ITEM	QUANTITY	UNIT	l	JNIT PRICE		AMOUNT
Water Main						
_ Water Main Abandon, 6 inch	1700	FT	\$	8.00	\$	13,600.00
_ Fire Hydrant, Assembely	2	Each	\$	5,000.00	\$	10,000.00
Fire Hydrant, Rem	2	Each	\$	675.00	\$	1,350.00
Gate Valve and Well, 8 inch	4	Each	\$	6,200.00	\$	24,800.00
_Gate Valve and Well, Rem	4	Each	\$	1,000.00	\$	4,000.00
Water Main, C900 PVC, 8 inch, Directional Drill	1700	FT	\$	160.00	\$	272,000.00
Water Main Connection, 8 inch	1	Each	\$	4,500.00	\$	4,500.00
Water Main Connection, 10 inch	1	Each	\$	5,500.00	\$	5,500.00
Water Service (WM to Valve Box)	18	Each	\$	900.00	\$	16,200.00
Water Service, Long (WM to Valve Box)	23	Each	\$	1,900.00	\$	43,700.00
Water Service, Special	41	Each	\$	4,500.00	\$	184,500.00
Mismarked Water Services	16	Hrs	\$	350.00	\$	5,600.00
_ INISHIARCA WATER SERVICES	10	1113	Y	330.00	Y	3,000.00
<u>Pavement</u>						
Pavt Repr, Rem	266	Syd	\$	10.00	\$	2,660.00
Pavt Repr, Nonreinf Conc, 8 inch	266	Syd	\$	90.00	\$	23,940.00
Curb and Gutter, Rem	286	FT	\$	10.00	\$	2,860.00
_ Curb and Gutter, Conc, Det F4, Modified	286	FT	\$	25.00	\$	7,150.00
Sidewalk, Rem	336	Syd	\$	9.00	\$	3,024.00
Sidewalk, Conc, 4 inch	2756	Sft	\$	6.00	\$	16,536.00
Sidewalk Ramp, Conc, 8 inch	260	Sft	\$	9.50	\$	2,470.00
Aggregate Base, 6 inch	437	Syd	\$	10.00	\$	4,370.00
_ Driveway, Rem	107	Syd	\$	11.00	\$	1,177.00
Driveway, Nonreinf Conc, 8 inch	107	Syd	\$	60.00	\$	6,420.00
Soil Erosion						
Erosion Control, Inlet Filter	12	Each	\$	175.00	\$	2,100.00
Turf Establishment	1	LSUM	\$	10,000.00	\$	10,000.00
MISC Work						
Mobilization, Max 8%	1	LSUM	\$	56,410.00	\$	56,410.00
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$	5,000.00
Permitting Allowance	1	LSUM	\$	1,500.00	\$	1,500.00
Tree, Rem, 19 inch to 36 inch	3	Each	\$	1,200.00	\$	3,600.00
Tree, Rem, 6 inch to 18 inch	8	Each	\$	750.00	\$	6,000.00
Tree, Rem, Less than 6 inch	6	Each	\$	500.00	\$	3,000.00
Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$	2,500.00
Maintenance Gravel	300	TON	\$	50.00	\$	15,000.00
				TOTAL COST	_	761,467.00
CONSTRUCTION COST					\$	761,467.00
						•
Design Engineering (6.5%)					\$ ¢	49,500.00
Construction Engineering (15%)					\$	114,220.00
Material Testing (1.5%)					\$	11,420.00
Contingencies (10%)					\$	76,150.00
TOTAL COST					\$	1,012,757.00
NOTE:						

#### NOTE:

Design Engineering includes topographical survey, design and preparation of bid documents.



ANDERSON, ECRSTEIN & 51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

#### **PRELIMINARY ESTIMATE**

**AEW PROJECT NO. 0175-0120** 

PROJECT: Water Asset Management Report Updates

Oakdale Blvd. - W 10 mile to Cambridge

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

	DATE:		2/5	/2020		
WORK ITEM	QUANTITY	UNIT		JNIT PRICE		AMOUNT
Water Main						
_ Water Main Abandon, 6 inch	2160	FT	\$	8.00	\$	17,280.00
_ Fire Hydrant, Assembely	5	Each	\$	5,000.00	\$	25,000.00
Fire Hydrant, Rem	5	Each	\$	675.00	\$	3,375.00
Gate Valve and Well, 8 inch	6	Each	\$	6,200.00	\$	37,200.00
_Gate Valve and Well, Rem	6	Each	\$	1,000.00	\$	6,000.00
Water Main, C900 PVC, 8 inch, Directional Drill	2160	FT	\$	160.00	\$	345,600.00
Water Main Connection, 6 inch	6	Each	\$	3,500.00	\$	21,000.00
Water Main Connection, 8 inch	1	Each	\$	4,500.00	\$	4,500.00
Water Service (WM to Valve Box)	35	Each	\$	900.00	\$	31,500.00
Water Service, Long (WM to Valve Box)	39	Each	\$	1,900.00	\$	74,100.00
_ Water Service, Special	74	Each	\$	4,500.00	\$	333,000.00
_ Mismarked Water Services	16	Hrs	\$	350.00		5,600.00
_ Mismarked Water Services	10	1113	Y	330.00	7	3,000.00
<u>Pavement</u>						
Pavt Repr, Rem	507	Syd	\$	10.00	\$	5,070.00
Pavt Repr, Nonreinf Conc, 8 inch	507	Syd	\$	90.00	\$	45,630.00
Curb and Gutter, Rem	1000	FT	\$	10.00	\$	10,000.00
_ Curb and Gutter, Conc, Det F4, Modified	1000	FT	\$	25.00	\$	25,000.00
Sidewalk, Rem	674	Syd	\$	9.00	\$	6,066.00
Sidewalk, Conc, 4 inch	5100	Sft	\$	6.00	\$	30,600.00
Sidewalk Ramp, Conc, 8 inch	966	Sft	\$	9.50	\$	9,177.00
Aggregate Base, 6 inch	880	Syd	\$	10.00	\$	8,800.00
_ Driveway, Rem	150	Syd	\$	11.00	\$	1,650.00
Driveway, Nonreinf Conc, 8 inch	150	Syd	\$	60.00	\$	9,000.00
Soil Erosion						
_ Erosion Control, Inlet Filter	16	Each	\$	175.00	\$	2,800.00
_ Turf Establishment	1	LSUM	\$	10,000.00	\$	10,000.00
MISC Work						
Mobilization, Max 8%	1	LSUM	\$	89,890.00	\$	89,890.00
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$	5,000.00
_ Permitting Allowance	1	LSUM	\$	1,500.00	\$	1,500.00
Tree, Rem, 19 inch to 36 inch	6	Each	\$	1,200.00	\$	7,200.00
Tree, Rem, 6 inch to 18 inch	18	Each	\$	750.00	\$	13,500.00
_ Tree, Rem, Less than 6 inch	12	Each	\$	500.00	\$	6,000.00
Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$	2,500.00
Maintenance Gravel	400	TON	\$	50.00	\$	20,000.00
			-	TOTAL COST	\$	
CONSTRUCTION COST					\$	1,213,538.00
Design Engineering (5.4%)					\$	65,530.00
Construction Engineering (15%)					\$	182,030.00
Material Testing (1.5%)					\$	18,200.00
Contingencies (10%)					\$	121,350.00
TOTAL COST					\$	1,600,648.00
NOTE:						

#### NOTE:

Design Engineering includes topographical survey, design and preparation of bid documents.



Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

## PRELIMINARY ESTIMATE

AEW PROJECT NO. 0175-0120

PROJECT: Water Asset Management Report Updates

Ridge Road - I696 to South Side

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE DATE: 2/5/2020

	DATE: 2/5/2020					
WORK ITEM	QUANTITY	UNIT	l	JNIT PRICE	AMOUNT	
Water Main						
_ Water Main Abandon, 10 inch	2420	FT	\$	11.00	\$	26,620.00
_ Fire Hydrant, Assembely	4	Each	\$	5,000.00	\$	20,000.00
Fire Hydrant, Rem	4	Each	\$	675.00	\$	2,700.00
Gate Valve and Well, 8 inch	4	Each	\$	6,200.00	\$	24,800.00
_Gate Valve and Well, Rem	4	Each	\$	1,000.00	\$	4,000.00
Water Main, C900 PVC, 8 inch, Directional Drill	2420	FT	\$	160.00	\$	387,200.00
Water Main Connection, 6 inch	5	Each	\$	3,500.00	\$	17,500.00
Water Main Connection, 8 inch	5	Each	\$	4,500.00	\$	22,500.00
Water Main Connection, 10 inch	3	Each	\$	5,500.00	\$	16,500.00
Water Service (WM to Valve Box)	23	Each	\$	900.00	\$	20,700.00
Water Service, Long (WM to Valve Box)	9	Each	\$	1,900.00	\$	17,100.00
_ Water Service, Special	32	Each	\$	4,500.00	\$	144,000.00
Mismarked Water Services	16	Hrs	\$	350.00	\$	5,600.00
_ monaried reactions			Ψ.	550.00	~	5,000.00
Pavement						
Pavt Repr, Rem	365	Syd	\$	10.00	\$	3,650.00
Pavt Repr, Nonreinf Conc, 8 inch	365	Syd	\$	90.00	\$	32,850.00
Curb and Gutter, Rem	220	FT	\$	10.00	\$	2,200.00
Curb and Gutter, Conc, Det F4, Modified	220	FT	\$	25.00	\$	5,500.00
Sidewalk, Rem	408	Syd	\$	9.00	\$	3,672.00
Sidewalk, Conc, 4 inch	2352	Sft	\$	6.00	\$	14,112.00
Sidewalk Ramp, Conc, 8 inch	1315	Sft	\$	9.50	\$	12,492.50
Aggregate Base, 6 inch	509	Syd	\$	10.00	\$	5,090.00
_ Driveway, Rem	95	Syd	\$	11.00	\$	1,045.00
Driveway, Nonreinf Conc, 8 inch	95	Syd	\$	60.00	\$	5,700.00
Soil Erosion						
_ Erosion Control, Inlet Filter	24	Each	\$	175.00	\$	4,200.00
Turf Establishment	1	LSUM	\$	10,000.00	\$	10,000.00
MISC Work						
Mobilization, Max 8%	1	LSUM	\$	68,880.00	\$	68,880.00
Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$	5,000.00
Permitting Allowance	1	LSUM	\$	1,500.00	\$	1,500.00
Tree, Rem, 19 inch to 36 inch	5	Each	\$	1,200.00	\$	6,000.00
Tree, Rem, 6 inch to 18 inch	15	Each	\$	750.00	\$	11,250.00
_ Tree, Rem, Less than 6 inch	10	Each	\$	500.00	\$	5,000.00
Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$	2,500.00
Maintenance Gravel	400	TON	\$	-	\$	20,000.00
			·.	TOTAL COST	\$	929,861.50
CONSTRUCTION COST					\$	929,861.50
Design Engineering (6.3%)					\$	58,580.00
Construction Engineering (15%)					\$	139,480.00
Material Testing (1.5%)					\$	13,950.00
Contingencies (10%)					\$	92,990.00
TOTAL COST					\$	1,234,861.50
10 1/12 0001					ڔ	1,237,001.30
NOTE:						
Design Engineering includes topographical survey, design and prepare	ration of bid do	cuments.				



51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

#### **PRELIMINARY ESTIMATE**

**AEW PROJECT NO. 0175-0120** 

PROJECT: Water Asset Management Report Updates

Poplar Park Blvd. - Ridge to Woodward

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

	DATE:		2/5	5/2020		
WORK ITEM	QUANTITY	UNIT		JNIT PRICE		AMOUNT
Water Main						_
_ Water Main Abandon, 6 inch	1140	FT	\$	8.00	\$	9,120.00
_ Fire Hydrant, Assembely	2	Each	\$	5,000.00	\$	10,000.00
Fire Hydrant, Rem	2	Each	\$	675.00	\$	1,350.00
Gate Valve and Well, 8 inch	2	Each	\$	6,200.00	\$	12,400.00
_Gate Valve and Well, Rem	2	Each	\$	1,000.00	\$	2,000.00
Water Main, C900 PVC, 8 inch, Directional Drill	1140	FT	\$	160.00	\$	182,400.00
_ Water Main Connection, 10 inch	1	Each	\$	5,500.00	\$	5,500.00
_ Water Main Connection, 48 inch	1	Each	\$	30,000.00	\$	30,000.00
Water Service (WM to Valve Box)	10	Each	\$	900.00	\$	9,000.00
Water Service (WM to Valve Box)	11	Each	\$	1,900.00	\$	20,900.00
_ Water Service, Special	21	Each	\$	4,500.00	ب \$	94,500.00
			۶ \$			
_ Mismarked Water Services	16	Hrs	Ş	350.00	Ş	5,600.00
<u>Pavement</u>						
Pavt Repr, Rem	130	Syd	\$	10.00	\$	1,300.00
Pavt Repr, Nonreinf Conc, 8 inch	130	Syd	\$	90.00	\$	11,700.00
Curb and Gutter, Rem	142	, FT	\$	10.00	\$	1,420.00
_ Curb and Gutter, Conc, Det F4, Modified	142	FT	\$	25.00	\$	3,550.00
Sidewalk, Rem	188	Syd	\$	9.00	\$	1,692.00
Sidewalk, Conc, 4 inch	1505	Sft	\$	6.00	\$	9,030.00
Sidewalk Ramp, Conc, 8 inch	182	Sft	\$	9.50	\$	1,729.00
Aggregate Base, 6 inch	312	Syd	\$	10.00	\$	3,120.00
_ Driveway, Rem	150	Syd	\$	11.00	\$	1,650.00
Driveway, Nonreinf Conc, 8 inch	150	Syd	\$	60.00	\$	9,000.00
		-,-	,	-	•	5,555.55
<u>Soil Erosion</u>						
_ Erosion Control, Inlet Filter	12	Each	\$	175.00	\$	2,100.00
_ Turf Establishment	1	LSUM	\$	10,000.00	\$	10,000.00
MISC Work						
Mobilization, Max 8%	1	LSUM	\$	38,410.00	\$	38,410.00
Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$	5,000.00
Permitting Allowance	1	LSUM	\$	1,500.00	\$	1,500.00
Tree, Rem, 19 inch to 36 inch	4	Each	\$	1,200.00	\$	4,800.00
Tree, Rem, 6 inch to 18 inch	13	Each	\$	750.00	\$	9,750.00
Tree, Rem, Less than 6 inch	5	Each	\$	500.00	\$	2,500.00
Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$	2,500.00
Maintenance Gravel	300	TON	\$	50.00	\$	15,000.00
Wiantenance Graver	300	1011		TOTAL COST		518,521.00
						,
CONSTRUCTION COST					\$	518,521.00
Design Engineering (6.9%)					\$	35,780.00
Construction Engineering (15%)					\$	77,780.00
Material Testing (1.5%)					\$	7,780.00
Contingencies (10%)					\$	51,850.00
TOTAL COST					\$	691,711.00
					-	
NOTE:						

#### NOTE:

Design Engineering includes topographical survey, design and preparation of bid documents.



ANDERSON, ECRSTEIN & 51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

#### **PRELIMINARY ESTIMATE**

**AEW PROJECT NO. 0175-0120** 

PROJECT: Water Asset Management Report Updates

Oakland Park Blvd. - Ridge to Woodward

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

	DATE.		2/0	0/2020		
WORK ITEM	QUANTITY	UNIT	l	JNIT PRICE		AMOUNT
Water Main						
_ Water Main Abandon, 8 inch	1680	FT	\$	10.00	\$	16,800.00
Fire Hydrant, Assembely	3	Each	\$	5,000.00	\$	15,000.00
Fire Hydrant, Rem	3	Each	\$	675.00	\$	2,025.00
Gate Valve and Well, 8 inch	2	Each	\$	6,200.00	\$	12,400.00
Gate Valve and Well, Rem	2	Each	\$	1,000.00	\$	2,000.00
Water Main, C900 PVC, 8 inch, Directional Drill	1680	FT	\$	160.00	\$	268,800.00
Water Main Connection, 10 inch	1	Each	\$	5,500.00	\$	5,500.00
Water Main Connection, 48 inch	1	Each	\$	30,000.00	\$	30,000.00
Water Service (WM to Valve Box)	14	Each	\$	900.00	\$	12,600.00
Water Service, Long (WM to Valve Box)	17	Each	\$	1,900.00	\$	32,300.00
Water Service, Special	31	Each	\$	4,500.00	\$	139,500.00
_ Mismarked Water Services	16	Hrs	\$	350.00	\$	5,600.00
_ ivisitiance voice services	10	1113	Y	330.00	Y	3,000.00
<u>Pavement</u>						
Pavt Repr, Rem	194	Syd	\$	10.00	\$	1,940.00
Pavt Repr, Nonreinf Conc, 8 inch	194	Syd	\$	90.00	\$	17,460.00
Curb and Gutter, Rem	216	FT	\$	10.00	\$	2,160.00
_ Curb and Gutter, Conc, Det F4, Modified	216	FT	\$	25.00	\$	5,400.00
Sidewalk, Rem	234	Syd	\$	9.00	\$	2,106.00
Sidewalk, Conc, 4 inch	1916	Sft	\$	6.00	\$	11,496.00
Sidewalk Ramp, Conc, 8 inch	184	Sft	\$	9.50	\$	1,748.00
Aggregate Base, 6 inch	365	Syd	\$	10.00	\$	3,650.00
_ Driveway, Rem	123	Syd	\$	11.00	\$	1,353.00
Driveway, Nonreinf Conc, 8 inch	123	Syd	\$	60.00	\$	7,380.00
Soil Erosion						
_ Erosion Control, Inlet Filter	10	Each	\$	175.00	\$	1,750.00
Turf Establishment	10	LSUM	\$		\$	10,000.00
_ run Establishment	1	LSOWI	ڔ	10,000.00	ڔ	10,000.00
MISC Work						
Mobilization, Max 8%	1	LSUM	\$	52,220.00	\$	52,220.00
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$	5,000.00
_ Permitting Allowance	1	LSUM	\$	1,500.00	\$	1,500.00
Tree, Rem, 19 inch to 36 inch	4	Each	\$	1,200.00	\$	4,800.00
Tree, Rem, 6 inch to 18 inch	10	Each	\$	750.00	\$	7,500.00
_ Tree, Rem, Less than 6 inch	15	Each	\$	500.00	\$	7,500.00
_ Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$	2,500.00
Maintenance Gravel	300	TON	\$	50.00	\$	15,000.00
			•	TOTAL COST	\$	704,988.00
CONSTRUCTION COST					\$	704,988.00
Design Engineering (6.6%)					\$	46,530.00
Construction Engineering (15%)					\$	105,750.00
					۶ \$	105,750.00
Material Testing (1.5%)						
Contingencies (10%)					\$	70,500.00
TOTAL COST					\$	938,338.00
NOTE:						

#### NOTE:

Design Engineering includes topographical survey, design and preparation of bid documents.



ANDERSON, ECKSTEIN & WESTRICK, INC. 51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

## PRELIMINARY ESTIMATE

**AEW PROJECT NO. 0175-0120** 

PROJECT: Water Asset Management Report Updates

Oxford Blvd. - Ridge to Woodward

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: DATE: Michael D. Smith, PE 2/5/2020

	DATE:			5/2020		
WORK ITEM	QUANTITY	' UNIT	l	JNIT PRICE		AMOUNT
<u>Water Main</u>						
_ Water Main Abandon, 10 inch	1860	FT	\$	11.00	\$	20,460.00
_ Fire Hydrant, Assembely	4	Each	\$	5,000.00	\$	20,000.00
Fire Hydrant, Rem	4	Each	\$	675.00	\$	2,700.00
Gate Valve and Well, 8 inch	5	Each	\$	6,200.00	\$	31,000.00
_Gate Valve and Well, Rem	7	Each	\$	1,000.00	\$	7,000.00
_ Water Main, C900 PVC, 8 inch, Directional Drill	1860	FT	\$	160.00	\$	297,600.00
_ Water Main Connection, 10 inch	1	Each	\$	5,500.00	\$	5,500.00
Water Main Connection, 12 inch	1	Each	\$	6,000.00	\$	6,000.00
Water Main Connection, 48 inch	1	Each	\$	30,000.00	\$	30,000.00
Water Service (WM to Valve Box)	25	Each	\$	900.00	\$	22,500.00
Water Service, Long (WM to Valve Box)	23	Each	\$	1,900.00	\$	43,700.00
_ Water Service, Special	48	Each	\$	4,500.00	\$	216,000.00
Mismarked Water Services	16	Hrs	\$	350.00	\$	5,600.00
_ Wishlanca Water Services	10	1113	7	330.00	Y	3,000.00
<u>Pavement</u>						
Pavt Repr, Rem	236	Syd	\$	10.00	\$	2,360.00
Pavt Repr, Nonreinf Conc, 8 inch	236	Syd	\$	90.00	\$	21,240.00
Curb and Gutter, Rem	280	FT	\$	10.00	\$	2,800.00
_ Curb and Gutter, Conc, Det F4, Modified	280	FT	\$	25.00	\$	7,000.00
Sidewalk, Rem	429	Syd	\$	9.00	\$	3,861.00
Sidewalk, Conc, 4 inch	3484	Sft	\$	6.00	\$	20,904.00
Sidewalk Ramp, Conc, 8 inch	377	Sft	\$	9.50	\$	3,581.50
Aggregate Base, 6 inch	602	Syd	\$	10.00	\$	6,020.00
_ Driveway, Rem	303	Syd	\$	11.00	\$	3,333.00
Driveway, Nonreinf Conc, 8 inch	303	Syd	\$	60.00	\$	18,180.00
Soil Erosion						
Erosion Control, Inlet Filter	6	Each	\$	175.00	\$	1,050.00
Turf Establishment	1	LSUM	\$	10,000.00	\$	10,000.00
			,		•	
MISC Work						
Mobilization, Max 8%	1	LSUM			\$	-
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$	5,000.00
_ Permitting Allowance	1	LSUM	\$	1,500.00	\$	1,500.00
Tree, Rem, 19 inch to 36 inch	7	Each	\$	1,200.00	\$	8,400.00
Tree, Rem, 6 inch to 18 inch	13	Each	\$	750.00	\$	9,750.00
_ Tree, Rem, Less than 6 inch	4	Each	\$	500.00	\$	2,000.00
_ Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$	2,500.00
Maintenance Gravel	500	TON	\$	50.00	\$	25,000.00
			-	TOTAL COST	\$	862,539.50
CONSTRUCTION COST					\$	862,539.50
Design Engineering (6.4%)					\$	55,200.00
Construction Engineering (15%)					\$	129,380.00
Material Testing (1.5%)					\$	12,940.00
Contingencies (10%)					\$	86,250.00
TOTAL COST						1,146,309.50
10172 6031					Ą	1,140,309.30
NOTE:						
Design Engineering includes topographical survey, design an						
Construction Engineering includes contract administration of	onstruction observation	on and ctal	kina c	orvicos		



ANDERSON, ECKSTEIN & WESTRICK, INC. 51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

#### **PRELIMINARY ESTIMATE**

**AEW PROJECT NO. 0175-0120** 

PROJECT: Water Asset Management Report Updates

Cambridge Blvd. - Oxford to Woodward

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

	DATE:			5/2020	
WORK ITEM	QUANTITY	UNIT		UNIT PRICE	AMOUN
Water Main					
_ Water Main Abandon, 6 inch	2200	FT	\$	8.00	\$ 17,600.0
_ Fire Hydrant, Assembely	5	Each	\$	5,000.00	\$ 25,000.0
Fire Hydrant, Rem	5	Each	\$	675.00	\$ 3,375.0
Gate Valve and Well, 8 inch	3	Each	\$	6,200.00	\$ 18,600.0
_Gate Valve and Well, Rem	3	Each	\$	1,000.00	\$ 3,000.0
_ Water Main, C900 PVC, 8 inch, Directional Drill	2200	FT	\$	160.00	\$ 352,000.0
_ Water Main Connection, 8 inch	1	Each	\$	4,500.00	\$ 4,500.0
_ Water Main Connection, 10 inch	2	Each	\$	5,500.00	\$ 11,000.0
Water Service (WM to Valve Box)	27	Each	\$	900.00	\$ 24,300.0
Water Service, Long (WM to Valve Box)	29	Each	\$	1,900.00	\$ 55,100.0
_ Water Service, Special	56	Each	\$	4,500.00	\$ 252,000.0
_ Mismarked Water Services	16	Hrs	\$	350.00	\$ 5,600.0
<u>Pavement</u>					
Pavt Repr, Rem	92	Syd	\$	10.00	\$ 920.0
Pavt Repr, Nonreinf Conc, 8 inch	92	Syd	\$	90.00	\$ 8,280.0
Curb and Gutter, Rem	86	FT	\$	10.00	\$ 860.0
_ Curb and Gutter, Conc, Det F4, Modified	86	FT	\$	25.00	\$ 2,150.0
Sidewalk, Rem	427	Syd	\$	9.00	\$ 3,843.0
Sidewalk, Conc, 4 inch	3835	Sft	\$	6.00	\$ 23,010.0
Aggregate Base, 6 inch	520	Syd	\$	10.00	\$ 5,200.0
Driveway, Rem	408	Syd	\$	11.00	\$ 4,488.0
Driveway, Nonreinf Conc, 8 inch	408	Syd	\$	60.00	\$ 24,480.0
Soil Erosion					
_ Erosion Control, Inlet Filter	14	Each	\$	175.00	\$ 2,450.0
_ Turf Establishment	1	LSUM	\$	10,000.00	\$ 10,000.0
MISC Work					
Mobilization, Max 8%	1	LSUM	\$	72,610.00	\$ 72,610.0
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$ 5,000.0
_ Permitting Allowance	1	LSUM	\$	1,500.00	\$ 1,500.0
Tree, Rem, 19 inch to 36 inch	7	Each	\$	1,200.00	\$ 8,400.0
Tree, Rem, 6 inch to 18 inch	8	Each	\$	750.00	\$ 6,000.0
_ Tree, Rem, Less than 6 inch	3	Each	\$	500.00	\$ 1,500.0
_ Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$ 2,500.0
Maintenance Gravel	500	TON	\$	50.00	\$ 25,000.0
			•	TOTAL COST	\$ 980,266.0
CONSTRUCTION COST					\$ 980,266.0
Design Engineering (6.3%)					\$ 61,760.0
Construction Engineering (15%)					\$ 147,040.0
Material Testing (1.5%)					\$ 14,700.0
Contingencies (10%)					\$ 98,030.0
TOTAL COST					\$ 1,301,796.0
NOTE:					
Design Engineering includes topographical survey, design and	d preparation of bid do	cuments.			
Construction Engineering includes contract administration, co			ing s	ervices.	



ANDERSON, ECRSTEIN & 51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

#### **PRELIMINARY ESTIMATE**

**AEW PROJECT NO. 0175-0120** 

PROJECT: Water Asset Management Report Updates

Kensington Blvd. - South Main to End

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

WORK ITEM	OLIANTITY	LINIT	INIT DDICE		AMOUNT
WORK ITEM	QUANTITY	UNIT	 JNIT PRICE		AMOUNT
Water Main					
_ Water Main Abandon, 6 inch	2050	FT	\$ 8.00	\$	16,400.00
_ Fire Hydrant, Assembely	4	Each	\$ 5,000.00	\$	20,000.00
Fire Hydrant, Rem	4	Each	\$ 675.00	\$	2,700.00
Gate Valve and Well, 8 inch	3	Each	\$ 6,200.00	\$	18,600.00
_Gate Valve and Well, Rem	3	Each	\$ 1,000.00	\$	3,000.00
_ Water Main, C900 PVC, 8 inch, Directional Drill	2050	FT	\$ 160.00	\$	328,000.00
_ Water Main Connection, 6 inch	1	Each	\$ 3,500.00	\$	3,500.00
_ Water Main Connection, 12 inch	1	Each	\$ 6,000.00	\$	6,000.00
Water Service (WM to Valve Box)	45	Each	\$ 900.00	\$	40,500.00
Water Service, Long (WM to Valve Box)	46	Each	\$ 1,900.00	\$	87,400.00
_ Water Service, Special	91	Each	\$ 4,500.00	\$	409,500.00
_ Mismarked Water Services	16	Hrs	\$ 350.00	\$	5,600.00
<u>Pavement</u>					
Pavt Repr, Rem	317	Syd	\$ 10.00	\$	3,170.00
Pavt Repr, Nonreinf Conc, 8 inch	317	Syd	\$ 90.00	\$	28,530.00
Curb and Gutter, Rem	380	FT	\$ 10.00	\$	3,800.00
Curb and Gutter, Conc, Det F4, Modified	380	FT	\$ 25.00	\$	9,500.00
Sidewalk, Rem	675	Syd	\$ 9.00	\$	6,075.00
Sidewalk, Conc, 4 inch	6074	Sft	\$ 6.00	\$	36,444.00
Sidewalk Ramp, Conc, 8 inch	188	Sft	\$ 9.50	\$	1,786.00
Aggregate Base, 6 inch	495	Syd	\$ 10.00	\$	4,950.00
Driveway, Rem	393	Syd	\$ 11.00	\$	4,323.00
Driveway, Nonreinf Conc, 8 inch	393	Syd	\$ 60.00	\$	23,580.00
Soil Erosion					
Erosion Control, Inlet Filter	16	Each	\$ 175.00	\$	2,800.00
Turf Establishment	1	LSUM	\$ 10,000.00	\$	10,000.00
MISC Work					
Mobilization, Max 8%	1	LSUM	\$ 90,320.00	\$	90,320.00
Traffic Control & Maintainance	1	LSUM	\$ 5,000.00	\$	5,000.00
Permitting Allowance	1	LSUM	\$ 1,500.00	\$	1,500.00
Tree, Rem, 19 inch to 36 inch	3	Each	\$ 1,200.00	\$	3,600.00
Tree, Rem, 6 inch to 18 inch	17	Each	\$ 750.00	\$	12,750.00
Tree, Rem, Less than 6 inch	5	Each	\$ 500.00	\$	2,500.00
Audio Visual Record of Construction Area	1	LSUM	\$ 2,500.00	\$	2,500.00
Maintenance Gravel	500	TON	\$ 50.00	\$	25,000.00
	300		 TOTAL COST	_	1,219,328.00
CONSTRUCTION COST				\$	1,219,328.00
Design Engineering (5.4%)				\$	65,840.00
Construction Engineering (15%)				\$	182,900.00
Material Testing (1.5%)				\$	182,900.00
Contingencies (10%)				۶ \$	121,930.00
TOTAL COST				\$	1,608,288.00
TOTAL COST				ڔ	1,000,200.00

### NOTE:

Design Engineering includes topographical survey, design and preparation of bid documents.



51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

#### **PRELIMINARY ESTIMATE**

AEW PROJECT NO. 0175-0120

PROJECT: Water Asset Management Report Updates

Devonshire Road - Woodward to End

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

	DATE:	DATE:		5/2020		
WORK ITEM	QUANTITY	' UNIT	l	JNIT PRICE		AMOUN
Water Main						
_ Water Main Abandon, 6 inch	2260	FT	\$	8.00	\$	18,080.00
_ Fire Hydrant, Assembely	5	Each	\$	5,000.00	\$	25,000.00
Fire Hydrant, Rem	5	Each	\$	675.00	\$	3,375.00
Gate Valve and Well, 8 inch	3	Each	\$	6,200.00	\$	18,600.00
Gate Valve and Well, Rem	3	Each	\$	1,000.00	\$	3,000.00
Water Main, C900 PVC, 8 inch, Directional Drill	2260	FT	\$	160.00	\$	361,600.00
Water Main Connection, 6 inch	1	Each	\$	3,500.00	\$	3,500.00
Water Main Connection, 12 inch	1	Each	\$	6,000.00	\$	6,000.00
Water Service (WM to Valve Box)	38	Each	\$	900.00	\$	34,200.00
Water Service, Long (WM to Valve Box)	36	Each	\$	1,900.00	\$	68,400.00
_ Water Service, Special	74	Each	\$	4,500.00	\$	333,000.00
Mismarked Water Services	16	Hrs	\$	350.00		5,600.00
_ Wishiarked Water Services	10	1113	Y	330.00	Y	3,000.00
<u>Pavement</u>						
Pavt Repr, Rem	392	Syd	\$	10.00	\$	3,920.00
Pavt Repr, Nonreinf Conc, 8 inch	392	Syd	\$	90.00	\$	35,280.00
Curb and Gutter, Rem	484	FT	\$	10.00	\$	4,840.00
Curb and Gutter, Conc, Det F4, Modified	484	FT	\$	25.00	\$	12,100.00
Sidewalk, Rem	637	Syd	\$	9.00	\$	5,733.00
Sidewalk, Conc, 4 inch	5029	Sft	\$	6.00	\$	30,174.00
Sidewalk Ramp, Conc, 8 inch	700	Sft	\$	9.50	\$	6,650.00
Aggregate Base, 6 inch	852	Syd	\$	10.00	\$	8,520.00
_ Driveway, Rem	352	Syd	\$	11.00	\$	3,872.00
Driveway, Nonreinf Conc, 8 inch	352	Syd	\$	60.00	\$	21,120.00
Soil Erosion						
Erosion Control, Inlet Filter	8	Each	\$	175.00	\$	1,400.00
_ Turf Establishment	1	LSUM	\$	10,000.00	-	10,000.00
MISC Work						
Mobilization, Max 8%	1	LSUM	\$	86,150.00	\$	86,150.00
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$	5,000.00
Permitting Allowance	1	LSUM	\$	1,500.00	\$	1,500.00
	6		\$	1,200.00		
Tree, Rem, 19 inch to 36 inch		Each	-	-	\$	7,200.00
Tree, Rem, 6 inch to 18 inch	13	Each	\$	750.00	\$	9,750.00
_ Tree, Rem, Less than 6 inch	4	Each	\$	500.00	\$	2,000.00
_ Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$	2,500.00
Maintenance Gravel	500	TON	\$	50.00	\$	25,000.00 1,163,064.00
				IOTAL COST	Ş	1,103,004.00
CONSTRUCTION COST					\$	1,163,064.00
Design Engineering (5.5%)					\$	63,970.00
Construction Engineering (15%)					\$	174,460.00
Material Testing (1.5%)					\$	17,450.00
Contingencies (10%)					\$	116,310.00
TOTAL COST					\$	1,535,254.00
NOTE:						
NOIE.						

Design Engineering includes topographical survey, design and preparation of bid documents.



ANDERSON, ECRSTEIN & 51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

#### **PRELIMINARY ESTIMATE**

AEW PROJECT NO. 0175-0120

PROJECT: Water Asset Management Report Updates

Wellesley Drive - Woodward to End

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

	DATE:	DATE:		5/2020			
WORK ITEM	QUANTITY	UNIT	l	JNIT PRICE	AMOUN		
Water Main							
_ Water Main Abandon, 6 inch	2170	FT	\$	8.00	\$ 17,360.00		
Fire Hydrant, Assembely	5	Each	\$	5,000.00	\$ 25,000.00		
Fire Hydrant, Rem	5	Each	\$	675.00	\$ 3,375.00		
Gate Valve and Well, 8 inch	3	Each	\$	6,200.00	\$ 18,600.00		
_Gate Valve and Well, Rem	3	Each	\$	1,000.00	\$ 3,000.00		
Water Main, C900 PVC, 8 inch, Directional Drill	2170	FT	\$	160.00	\$ 347,200.00		
Water Main Connection, 6 inch	2	Each	\$	3,500.00	\$ 7,000.00		
Water Main Connection, 12 inch	1	Each	\$	6,000.00	\$ 6,000.00		
Water Service (WM to Valve Box)	46	Each	\$	900.00	\$ 41,400.00		
Water Service, Long (WM to Valve Box)	41	Each	\$	1,900.00	\$ 77,900.00		
Water Service, Special	87	Each	\$	4,500.00	\$ 391,500.00		
_ Mismarked Water Services	16	Hrs	\$	350.00	\$ 5,600.00		
Pavement Pavement							
Pavt Repr, Rem	374	Syd	\$	10.00	\$ 3,740.00		
Pavt Repr, Nonreinf Conc, 8 inch	374	Syd	\$	90.00	\$ 33,660.00		
Curb and Gutter, Rem	460	FT	\$	10.00	\$ 4,600.00		
_ Curb and Gutter, Conc, Det F4, Modified	460	FT	\$	25.00	\$ 11,500.00		
Sidewalk, Rem	689	Syd	\$	9.00	\$ 6,201.00		
Sidewalk, Conc, 4 inch	5763	Sft	\$	6.00	\$ 34,578.00		
Sidewalk Ramp, Conc, 8 inch	432	Sft	\$	9.50	\$ 4,104.00		
Aggregate Base, 6 inch	883	Syd	\$	10.00	\$ 8,830.00		
_ Driveway, Rem	406	Syd	\$	11.00	\$ 4,466.00		
Driveway, Nonreinf Conc, 8 inch	406	Syd	\$	60.00	\$ 24,360.00		
Soil Erosion							
_ Erosion Control, Inlet Filter	9	Each	\$	175.00	\$ 1,575.00		
_ Turf Establishment	1	LSUM	\$	10,000.00	\$ 10,000.00		
MISC Work							
Mobilization, Max 8%	1	LSUM	\$	91,600.00	\$ 91,600.00		
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$ 5,000.00		
_ Permitting Allowance	1	LSUM	\$	1,500.00	\$ 1,500.00		
Tree, Rem, 19 inch to 36 inch	6	Each	\$	1,200.00	\$ 7,200.00		
Tree, Rem, 6 inch to 18 inch	13	Each	\$	750.00	\$ 9,750.00		
_ Tree, Rem, Less than 6 inch	5	Each	\$	500.00	\$ 2,500.00		
_ Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$ 2,500.00		
Maintenance Gravel	500	TON	\$	50.00	\$ 25,000.00		
			-	TOTAL COST	\$ 1,236,599.00		
CONSTRUCTION COST					\$ 1,236,599.00		
Design Engineering (5.4%)					\$ 66,780.00		
Construction Engineering (15%)					\$ 185,490.00		
Material Testing (1.5%)					\$ 18,550.00		
Contingencies (10%)					\$ 123,660.00		
TOTAL COST					\$ 1,631,079.00		
NOTE.							

#### NOTE:

Design Engineering includes topographical survey, design and preparation of bid documents.



ANDERSON, ECRSTEIN & 51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

PRELIMINARY ESTIMATE

AEW PROJECT NO. 0175-0120

PROJECT: Water Asset Management Report Updates

Amherst Road - Woodward to End

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

	DATE:			5/2020		
WORK ITEM	QUANTITY	UNIT	l	JNIT PRICE		AMOUNT
Water Main		· · · · · · · · · · · · · · · · · · ·				
_ Water Main Abandon, 6 inch	2050	FT	\$	8.00	\$	16,400.00
_ Fire Hydrant, Assembely	4	Each	\$	5,000.00	\$	20,000.00
Fire Hydrant, Rem	4	Each	\$	675.00	\$	2,700.00
Gate Valve and Well, 8 inch	4	Each	\$	6,200.00	\$	24,800.00
Gate Valve and Well, Rem	4	Each	\$	1,000.00	\$	4,000.00
Water Main, C900 PVC, 8 inch, Directional Drill	2050	FT	\$	160.00	\$	328,000.00
Water Main Connection, 6 inch	1	Each	\$	3,500.00	\$	3,500.00
Water Main Connection, 12 inch	1	Each	\$	6,000.00	\$	6,000.00
Water Service (WM to Valve Box)	33	Each	\$	900.00	\$	29,700.00
Water Service, Long (WM to Valve Box)	43	Each	\$	1,900.00	\$	81,700.00
_ Water Service, Special	76	Each	\$	4,500.00	\$	342,000.00
Mismarked Water Services	16	Hrs	\$	350.00	\$	5,600.00
_ INSTITUTE VICES	10	5	Y	330.00	Υ	3,000.00
<u>Pavement</u>						
Pavt Repr, Rem	83	Syd	\$	10.00	\$	830.00
Pavt Repr, Nonreinf Conc, 8 inch	83	Syd	\$	90.00	\$	7,470.00
Curb and Gutter, Rem	74	FT	\$	10.00	\$	740.00
_ Curb and Gutter, Conc, Det F4, Modified	74	FT	\$	25.00	\$	1,850.00
Sidewalk, Rem	609	Syd	\$	9.00	\$	5,481.00
Sidewalk, Conc, 4 inch	5042	Sft	\$	6.00	\$	30,252.00
Sidewalk Ramp, Conc, 8 inch	432	Sft	\$	9.50	\$	4,104.00
Aggregate Base, 6 inch	447	Syd	\$	10.00	\$	4,470.00
_ Driveway, Rem	347	Syd	\$	11.00	\$	3,817.00
Driveway, Nonreinf Conc, 8 inch	347	Syd	\$	60.00	\$	20,820.00
Soil Erosion						
_ Erosion Control, Inlet Filter	10	Each	\$	175.00	\$	1,750.00
_ Turf Establishment	1	LSUM	\$	10,000.00	\$	10,000.00
MISC Work						
Mobilization, Max 8%	1	LSUM	\$	80,670.00	\$	80,670.00
Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$	5,000.00
Permitting Allowance	1	LSUM	\$	1,500.00	\$	1,500.00
Tree, Rem, 19 inch to 36 inch	2	Each	\$	1,200.00	\$	2,400.00
Tree, Rem, 6 inch to 18 inch	18	Each	\$	750.00	\$	13,500.00
Tree, Rem, Less than 6 inch	5	Each	\$	500.00	\$	2,500.00
Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$	2,500.00
Maintenance Gravel	500	TON	\$	50.00	\$	25,000.00
						1,089,054.00
CONSTRUCTION COST					\$	1,089,054.00
Design Engineering (5.8%)					\$	63,170.00
Construction Engineering (15%)					\$	163,360.00
Material Teasing (1.5%)					\$	16,340.00
Contingencies (10%)					\$	108,910.00
TOTAL COST					\$	1,440,834.00
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NOTE:						

#### NOTE:

Design Engineering includes topographical survey, design and preparation of bid documents.



51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

#### **PRELIMINARY ESTIMATE**

AEW PROJECT NO. 0175-0120

PROJECT: Water Asset Management Report Updates

Maywood Ave. - Woodward to End

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

2/4/2020 DATE:

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

	DATE.			0/2020		
WORK ITEM	QUANTITY	UNIT	Ī	JNIT PRICE		AMOUNT
Water Main					_	
_ Water Main Abandon, 6 inch	2060	FT	\$	8.00	\$	16,480.00
_ Fire Hydrant, Assembely	3	Each	\$	5,000.00	\$	15,000.00
Fire Hydrant, Rem	3	Each	\$	675.00	\$	2,025.00
Gate Valve and Well, 8 inch	3	Each	\$	6,200.00	\$	18,600.00
_Gate Valve and Well, Rem	3	Each	\$	1,000.00	\$	3,000.00
_ Water Main, C900 PVC, 8 inch, Directional Drill	2060	FT	\$	160.00	\$	329,600.00
_ Water Main Connection, 6 inch	1	Each	\$	3,500.00	\$	3,500.00
_ Water Main Connection, 10 inch	1	Each	\$	5,500.00	\$	5,500.00
Water Service (WM to Valve Box)	34	Each	\$	900.00	\$	30,600.00
Water Service, Long (WM to Valve Box)	35	Each	\$	1,900.00	\$	66,500.00
_ Water Service, Special	69	Each	\$	4,500.00	\$	310,500.00
_ Mismarked Water Services	16	Hrs	\$	350.00	\$	5,600.00
Pavement						
Pavt Repr, Rem	382	Syd	\$	10.00	\$	3,820.00
Pavt Repr, Nonreinf Conc, 8 inch	382	Syd	\$	90.00	\$	34,380.00
Curb and Gutter, Rem	464	FT	\$	10.00	\$	4,640.00
_ Curb and Gutter, Conc, Det F4, Modified	464	FT	\$	25.00	\$	11,600.00
Sidewalk, Rem	610	Syd	\$	9.00	\$	5,490.00
Sidewalk, Conc, 4 inch	4860	Sft	\$	6.00	\$	29,160.00
Sidewalk Ramp, Conc, 8 inch	630	Sft	\$	9.50	\$	5,985.00
Aggregate Base, 6 inch	898	Syd	\$	10.00	\$	8,980.00
_ Driveway, Rem	413	Syd	\$	11.00	\$	4,543.00
Driveway, Nonreinf Conc, 8 inch	413	Syd	\$	60.00	\$	24,780.00
Soil Erosion						
_ Erosion Control, Inlet Filter	9	Each	\$	175.00	\$	1,575.00
_ Turf Establishment	1	LSUM	\$	10,000.00	\$	10,000.00
MISC Work						
Mobilization, Max 8%	1	LSUM	\$	80,640.00	\$	80,640.00
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$	5,000.00
_ Permitting Allowance	1	LSUM	\$	1,500.00	\$	1,500.00
Tree, Rem, 19 inch to 36 inch	2	Each	\$	1,200.00	\$	2,400.00
Tree, Rem, 6 inch to 18 inch	23	Each	\$	750.00	\$	17,250.00
_ Tree, Rem, Less than 6 inch	5	Each	\$	500.00	\$	2,500.00
_ Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$	2,500.00
Maintenance Gravel	500	TON	\$	50.00	\$	25,000.00
			-	TOTAL COST	\$	1,088,648.00
CONSTRUCTION COST					\$	1,088,648.00
Design Engineering (5.7%)					\$	62,050.00
Construction Engineering (15%)					\$	163,300.00
Material Teasing (1.5%)					\$	16,330.00
Contingencies (10%)					\$	108,860.00
TOTAL COST					_	1,439,188.00
NOTE:						
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Design Engineering includes topographical survey, design and preparation of bid documents.



51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

#### **PRELIMINARY ESTIMATE**

AEW PROJECT NO. 0175-0120

PROJECT: Water Asset Management Report Updates

Sylvan Ave. - Woodward to End

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

2/4/2020 DATE:

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

	DATE.			0/2020	_	
WORK ITEM	QUANTITY	UNIT	Ī	JNIT PRICE		AMOUNT
Water Main		_			_	
_ Water Main Abandon, 6 inch	2000	FT	\$	8.00	\$	16,000.00
_ Fire Hydrant, Assembely	3	Each	\$	5,000.00	\$	15,000.00
Fire Hydrant, Rem	3	Each	\$	675.00	\$	2,025.00
Gate Valve and Well, 8 inch	3	Each	\$	6,200.00	\$	18,600.00
_Gate Valve and Well, Rem	3	Each	\$	1,000.00	\$	3,000.00
_ Water Main, C900 PVC, 8 inch, Directional Drill	2000	FT	\$	160.00	\$	320,000.00
_ Water Main Connection, 6 inch	1	Each	\$	3,500.00	\$	3,500.00
_ Water Main Connection, 10 inch	1	Each	\$	5,500.00	\$	5,500.00
Water Service (WM to Valve Box)	35	Each	\$	900.00	\$	31,500.00
Water Service, Long (WM to Valve Box)	34	Each	\$	1,900.00	\$	64,600.00
Water Service, Special	69	Each	\$	4,500.00	\$	310,500.00
Mismarked Water Services	16	Hrs	\$	350.00	\$	5,600.00
			•		·	ŕ
Pavement						
Pavt Repr, Rem	394	Syd	\$	10.00	\$	3,940.00
Pavt Repr, Nonreinf Conc, 8 inch	394	Syd	\$	90.00	\$	35,460.00
Curb and Gutter, Rem	474	FT	\$	10.00	\$	4,740.00
Curb and Gutter, Conc, Det F4, Modified	474	FT	\$	25.00	\$	11,850.00
Sidewalk, Rem	584	Syd	\$	9.00	\$	5,256.00
Sidewalk, Conc, 4 inch	4605	Sft	\$	6.00	\$	27,630.00
Sidewalk Ramp, Conc, 8 inch	645	Sft	\$	9.50	\$	6,127.50
Aggregate Base, 6 inch	487	Syd	\$	10.00	\$	4,870.00
_ Driveway, Rem	347	Syd	\$	11.00	\$	3,817.00
Driveway, Nonreinf Conc, 8 inch	347	Syd	\$	60.00	\$	20,820.00
Soil Erosion						
Erosion Control, Inlet Filter	11	Each	\$	175.00	\$	1,925.00
Turf Establishment	1	LSUM	\$	10,000.00	\$	10,000.00
MISC Work						
Mobilization, Max 8%	1	LSUM	\$	78,540.00	\$	78,540.00
Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$	5,000.00
Permitting Allowance	1	LSUM	\$	1,500.00	\$	1,500.00
Tree, Rem, 19 inch to 36 inch	1	Each	\$	1,200.00	\$	1,200.00
Tree, Rem, 6 inch to 18 inch	15	Each	\$	750.00	\$	11,250.00
_ Tree, Rem, Less than 6 inch	6	Each	\$	500.00	\$	3,000.00
Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$	2,500.00
Maintenance Gravel	500	TON	\$	50.00	\$	25,000.00
					_	1,060,250.50
CONSTRUCTION COST					\$	1,060,250.50
Design Engineering (5.8%)					\$	61,490.00
Construction Engineering (15%)					\$	159,040.00
Material Testing (1.5%)					\$	15,900.00
Contingencies (10%)					\$	106,030.00
TOTAL COST					\$	1,402,710.50
TOTAL COST					ڔ	1,702,710.30
NOTE:						

Design Engineering includes topographical survey, design and preparation of bid documents.



51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

**PRELIMINARY ESTIMATE** 

**AEW PROJECT NO. 0175-0120** 

PROJECT: Water Asset Management Report Updates

Fairwood Blvd. - Woodward to End

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

	DATE:		2/5	5/2020		
WORK ITEM	QUANTITY	UNIT		JNIT PRICE		AMOUNT
Water Main						
_ Water Main Abandon, 6 inch	1970	FT	\$	8.00	\$	15,760.00
_ Fire Hydrant, Assembely	3	Each	\$	5,000.00	\$	15,000.00
Fire Hydrant, Rem	3	Each	\$	675.00	\$	2,025.00
Gate Valve and Well, 8 inch	4	Each	\$	6,200.00	\$	24,800.00
Gate Valve and Well, Rem	4	Each	\$	1,000.00	\$	4,000.00
Water Main, C900 PVC, 8 inch, Directional Drill	1970	FT	\$	160.00	\$	315,200.00
_ Water Main Connection, 6 inch	1	Each	\$	3,500.00	\$	3,500.00
Water Main Connection, 10 inch	1	Each	\$	5,500.00	\$	5,500.00
Water Service (WM to Valve Box)	32	Each	\$	900.00	\$	28,800.00
Water Service, Long (WM to Valve Box)	32	Each	\$	1,900.00	\$	60,800.00
_ Water Service, Special	64	Each	\$	4,500.00	\$	288,000.00
_ Mismarked Water Services	16	Hrs	\$	350.00	\$	5,600.00
_						·
Pavement Pavement						
Pavt Repr, Rem	359	Syd	\$	10.00	\$	3,590.00
Pavt Repr, Nonreinf Conc, 8 inch	359	Syd	\$	90.00	\$	32,310.00
Curb and Gutter, Rem	50	FT	\$	10.00	\$	500.00
Curb and Gutter, Conc, Det F4, Modified	50	FT	\$	25.00	\$	1,250.00
 Sidewalk, Rem	962	Syd	\$	9.00	\$	8,658.00
Sidewalk, Conc, 4 inch	4326	Sft	\$	6.00	\$	25,956.00
Sidewalk Ramp, Conc, 8 inch	552	Sft	\$	9.50	\$	5,244.00
Aggregate Base, 6 inch	670	Syd	\$	10.00	\$	6,700.00
Driveway, Rem	299	Syd	\$	11.00	\$	3,289.00
Driveway, Nonreinf Conc, 8 inch	299	Syd	\$	60.00	\$	17,940.00
Soil Erosion						
_ Erosion Control, Inlet Filter	20	Each	\$	175.00	\$	3,500.00
_ Turf Establishment	1	LSUM	\$	10,000.00	\$	10,000.00
MISC Work						
Mobilization, Max 8%	1	LSUM	\$	75,240.00	\$	75,240.00
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$	5,000.00
_ Permitting Allowance	1	LSUM	\$	1,500.00	\$	1,500.00
Tree, Rem, 19 inch to 36 inch	4	Each	\$	1,200.00	\$	4,800.00
Tree, Rem, 6 inch to 18 inch	13	Each	\$	750.00	\$	9,750.00
_ Tree, Rem, Less than 6 inch	8	Each	\$	500.00	\$	4,000.00
_ Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$	2,500.00
Maintenance Gravel	500	TON	\$	50.00	\$	25,000.00
			-	TOTAL COST	\$	1,015,712.00
CONSTRUCTION COST					\$	1,015,712.00
Design Engineering (6.2%)					\$	62,970.00
Construction Engineering (15%)					\$	152,360.00
Material Testing (1.5%)					\$	15,240.00
Contingencies (10%)					\$	101,570.00
TOTAL COST					\$	1,347,852.00
<del></del>					7	, ,552.00
NOTE.						

#### NOTE:

Design Engineering includes topographical survey, design and preparation of bid documents.



ANDERSON, ECKSTEIN & WESTRICK, INC. 51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

#### **PRELIMINARY ESTIMATE**

**AEW PROJECT NO. 0175-0120** 

PROJECT: Water Asset Management Report Updates

Woodward Heights Blvd. -

Woodward to East Side City of Pleasant Ridge

OWNER:

PREPARED BY: Nicholas P. Todino DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

WORKITEM	DATE:   QUANTITY	LINIT		1/2020	ANACHINIT
WORK ITEM	QUANTITY	UNIT		JNIT PRICE	AMOUNT
Water Main					45.000.00
_ Water Main Abandon, 6 inch	1900	FT - ·	\$	8.00	\$ 15,200.00
Fire Hydrant, Assembely	2	Each	\$	5,000.00	\$ 10,000.00
Fire Hydrant, Rem	2	Each	\$	675.00	\$ 1,350.00
Gate Valve and Well, 8 inch	2	Each	\$	6,200.00	\$ 12,400.00
_Gate Valve and Well, Rem	2	Each	\$	1,000.00	\$ 2,000.00
_ Water Main, C900 PVC, 8 inch, Directional Drill	1900	FT	\$	160.00	\$ 304,000.00
_ Water Main Connection, 6 inch	1	Each	\$	3,500.00	\$ 3,500.00
_ Water Main Connection, 10 inch	1	Each	\$	5,500.00	\$ 5,500.00
Water Service (WM to Valve Box)	30	Each	\$	900.00	\$ 27,000.00
Water Service, Long (WM to Valve Box)	37	Each	\$	1,900.00	\$ 70,300.00
_ Water Service, Special	67	Each	\$	4,500.00	\$ 301,500.00
_ Mismarked Water Services	16	Hrs	\$	350.00	\$ 5,600.00
<u>Pavement</u>					
Pavt Repr, Rem	206	Syd	\$	10.00	\$ 2,060.00
Pavt Repr, Nonreinf Conc, 8 inch	206	Syd	\$	90.00	\$ 18,540.00
Curb and Gutter, Rem	442	FT	\$	10.00	\$ 4,420.00
_ Curb and Gutter, Conc, Det F4, Modified	442	FT	\$	25.00	\$ 11,050.00
Sidewalk, Rem	516	Syd	\$	9.00	\$ 4,644.00
Sidewalk, Conc, 4 inch	4435	Sft	\$	6.00	\$ 26,610.00
Sidewalk Ramp, Conc, 8 inch	206	Sft	\$	9.50	\$ 1,957.00
Aggregate Base, 6 inch	518	Syd	\$	10.00	\$ 5,180.00
_ Driveway, Rem	213	Syd	\$	11.00	\$ 2,343.00
Driveway, Nonreinf Conc, 8 inch	213	Syd	\$	60.00	\$ 12,780.00
Soil Erosion					
_ Erosion Control, Inlet Filter	14	Each	\$	175.00	\$ 2,450.00
_ Turf Establishment	1	LSUM	\$	10,000.00	\$ 10,000.00
MISC Work					
Mobilization, Max 8%	1	LSUM	\$	72,860.00	\$ 72,860.00
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$ 5,000.00
_ Permitting Allowance	1	LSUM	\$	1,500.00	\$ 1,500.00
Tree, Rem, 19 inch to 36 inch	3	Each	\$	1,200.00	\$ 3,600.00
Tree, Rem, 6 inch to 18 inch	13	Each	\$	750.00	\$ 9,750.00
_ Tree, Rem, Less than 6 inch	6	Each	\$	500.00	\$ 3,000.00
_ Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$ 2,500.00
Maintenance Gravel	500	TON	\$	50.00	\$ 25,000.00
			-	TOTAL COST	\$ 983,594.00
CONSTRUCTION COST					\$ 983,594.00
Design Engineering (6.2%)					\$ 60,980.00
Construction Engineering (15%)					\$ 147,540.00
Material Testing (1.5%)					\$ 14,750.00
Contingencies (10%)					\$ 98,360.00
TOTAL COST					\$ 1,305,224.00
NOTE:					
Design Engineering includes topographical survey, design and pr	reparation of bid do	cuments			
Construction Engineering includes contract administration, cons	•		ing s	ervices	
construction Engineering includes contract administration, cons	ti detioni observatio	unu stak	1116 3t	*1003.	



51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234

Fax No: 586-726-8780

#### **PRELIMINARY ESTIMATE**

**AEW PROJECT NO. 0175-0120** 

PROJECT: Water Asset Management Report Updates

Gainsborough Ave. and along railroad tracks

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

	DATE:			0/2020	
WORK ITEM	QUANTITY	UNIT	l	JNIT PRICE	AMOUNT
Water Main					
_ Water Main Abandon, 6 inch	2000	FT	\$	8.00	\$ 16,000.00
Gate Valve and Well, 8 inch	5	Each	\$	6,200.00	\$ 31,000.00
_Gate Valve and Well, Rem	5	Each	\$	1,000.00	\$ 5,000.00
_ Water Main, C900 PVC, 8 inch, Directional Drill	2000	FT	\$	160.00	\$ 320,000.00
_ Water Main Connection, 6 inch	7	Each	\$	3,500.00	\$ 24,500.00
Water Service, Long (WM to Valve Box)	5	Each	\$	1,900.00	\$ 9,500.00
_ Water Service, Special	5	Each	\$	4,500.00	\$ 22,500.00
_ Mismarked Water Services	16	Hrs	\$	350.00	\$ 5,600.00
<u>Pavement</u>					
Pavt Repr, Rem	110	Syd	\$	10.00	\$ 1,100.00
Pavt Repr, Nonreinf Conc, 8 inch	110	Syd	\$	90.00	\$ 9,900.00
Curb and Gutter, Rem	100	FT	\$	10.00	\$ 1,000.00
_ Curb and Gutter, Conc, Det F4, Modified	100	FT	\$	25.00	\$ 2,500.00
Sidewalk, Rem	50	Syd	\$	9.00	\$ 450.00
Sidewalk, Conc, 4 inch	450	Sft	\$	6.00	\$ 2,700.00
Aggregate Base, 6 inch	180	Syd	\$	10.00	\$ 1,800.00
_ Driveway, Rem	50	Syd	\$	11.00	\$ 550.00
Driveway, Nonreinf Conc, 8 inch	50	Syd	\$	60.00	\$ 3,000.00
Soil Erosion					
_ Erosion Control, Inlet Filter	7	Each	\$	175.00	\$ 1,225.00
_ Turf Establishment	1	LSUM	\$	10,000.00	\$ 10,000.00
MISC Work					
Mobilization, Max 8%	1	LSUM	\$	40,870.00	\$ 40,870.00
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$ 5,000.00
_ Permitting Allowance	1	LSUM	\$	1,500.00	\$ 1,500.00
Tree, Rem, 19 inch to 36 inch	5	Each	\$	1,200.00	\$ 6,000.00
Tree, Rem, 6 inch to 18 inch	20	Each	\$	750.00	\$ 15,000.00
_ Tree, Rem, Less than 6 inch	5	Each	\$	500.00	\$ 2,500.00
_ Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$ 2,500.00
Maintenance Gravel	200	TON	\$	50.00	\$ 10,000.00
			-	TOTAL COST	\$ 551,695.00
CONSTRUCTION COST					\$ 551,695.00
Design Engineering (6.9%)					\$ 38,070.00
Construction Engineering (15%)					\$ 82,750.00
Material Testing (1.5%)					\$ 8,280.00
Contingencies (10%)					\$ 55,170.00
TOTAL COST					\$ 735,965.00
NOTE:					
Design Engineering includes topographical survey, design and	preparation of bid doo	cuments.			



51301 Schoenherr Road
Shelby Township, MI 48315
Phone: 586-726-1234
Fax No: 586-726-8780

PRELIMINARY ESTIMATE

**AEW PROJECT NO. 0175-0120** 

PROJECT: Water Asset Management Report Updates

Woodward - West Side

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE DATE: 2/5/2020

	DATE:	DATE: 2/5/2020				
WORK ITEM	QUANTITY	UNIT	l	JNIT PRICE		AMOUNT
Water Main						
_ Water Main Abandon, 6 inch	79	FT	\$	8.00	\$	632.00
_ Water Main Abandon, 10 inch	694	FT	\$	11.00	\$	7,634.00
_ Fire Hydrant, Assembely	3	Each	\$	5,000.00	\$	15,000.00
Fire Hydrant, Rem	3	Each	\$	675.00	\$	2,025.00
Gate Valve and Well, 8 inch	5	Each	\$	6,200.00	\$	31,000.00
_Gate Valve and Well, Rem	5	Each	\$	1,000.00	\$	5,000.00
Water Main, C900 PVC, 12 inch, Directional Drill	773	FT	\$	200.00	\$	154,600.00
Water Main Connection, 6 inch	2	Each	\$	3,500.00	\$	7,000.00
Water Main Connection, 10 inch	2	Each	\$	5,500.00	\$	11,000.00
Water Service (WM to Valve Box)	6	Each	\$	900.00	\$	5,400.00
Water Service, Long (WM to Valve Box)	4	Each	\$	1,900.00	\$	7,600.00
_ Water Service, Special	10	Each	\$	4,500.00	\$	45,000.00
_ Mismarked Water Services	16	Hrs	\$	350.00	\$	5,600.00
Bayament						
Pavement Pavt Repr, Rem	92	Syd	\$	10.00	\$	920.00
Pavt Repr, Nonreinf Conc, 8 inch	92	Syd	\$	90.00	\$	8,280.00
Curb and Gutter, Rem	86	FT	\$	10.00	\$	860.00
_ Curb and Gutter, Kern _ Curb and Gutter, Conc, Det F4, Modified	86	FT	\$	25.00	\$	2,150.00
Sidewalk, Rem	67	Syd	\$	9.00	\$	603.00
Sidewalk, Conc, 4 inch	600	Sft	\$	6.00	ب \$	3,600.00
Sidewalk Ramp, Conc, 8 inch	300	Sft	\$	9.50	\$	2,850.00
Aggregate Base, 6 inch	202	Syd	\$	10.00	\$	2,020.00
_ Driveway, Rem	90	Syd	\$	11.00	\$	990.00
Driveway, Nonreinf Conc, 8 inch	90	Syd	\$	60.00	۶ \$	5,400.00
Call Francisco						
Soil Erosion				475.00		4 050 00
_ Erosion Control, Inlet Filter	6	Each	\$	175.00	\$	1,050.00
_ Turf Establishment	1	LSUM	\$	10,000.00	\$	10,000.00
MISC Work						
Mobilization, Max 8%	1	LSUM	\$	29,190.00	\$	29,190.00
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$	5,000.00
_ Permitting Allowance	1	LSUM	\$	1,500.00	\$	1,500.00
Tree, Rem, 19 inch to 36 inch	1	Each	\$	1,200.00	\$	1,200.00
Tree, Rem, 6 inch to 18 inch	4	Each	\$	750.00	\$	3,000.00
_ Tree, Rem, Less than 6 inch	1	Each	\$	500.00	\$	500.00
_ Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$	2,500.00
Maintenance Gravel	300	TON	\$	50.00	\$	15,000.00
			-	TOTAL COST	\$	394,104.00
CONSTRUCTION COST					\$	394,104.00
Design Engineering (10.2%)					\$	40,200.00
Construction Engineering (15%)					\$	59,120.00
Material Testing (1.5%)					\$	(5,910.00)
Contingencies (10%)					\$	39,410.00
TOTAL COST					\$	526,924.00
NOTE						
NOTE: Design Engineering includes topographical survey, design and	proparation of hid do	cuments				
Design Engineering includes topographical survey, design and	או באמו מנוטוו טו טום מכ	cuments.				



ANDERSON, ECKSTEIN & WESTRICK, INC. 51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

## PRELIMINARY ESTIMATE

**AEW PROJECT NO. 0175-0120** 

PROJECT:

Water Asset Management Report Updates

Woodward - East Side

OWNER: City of Pleasant Ridge

PREPARED BY:

Nicholas P. Todino

DATE:

2/4/2020

CHECKED BY:

Michael D. Smith, PE

2/5/2020 DATE:

WORK ITEM  Water Main  Water Main Abandon, 10 inch  Water Main Abandon, 12 inch  Fire Hydrant, Assembely	QUANTITY 2040			JNIT PRICE		AMOUN'
_ Water Main Abandon, 10 inch _ Water Main Abandon, 12 inch	2040	СТ				
Water Main Abandon, 12 inch	2040	ГТ				
		FT	\$	11.00	\$	22,440.00
Fire Hydrant Assembely	1189	FT	\$	12.00	\$	14,268.00
_ incrigarant, Assemblery	7	Each	\$	5,000.00	\$	35,000.00
Fire Hydrant, Rem	7	Each	\$	675.00	\$	4,725.00
Gate Valve and Well, 8 inch	11	Each	\$	6,200.00	\$	68,200.00
_Gate Valve and Well, Rem	11	Each	\$	1,000.00	\$	11,000.00
Water Main, C900 PVC, 12 inch, Directional Drill	3229	FT	\$	200.00	\$	645,800.00
Water Main Connection, 6 inch	9	Each	\$	3,500.00	\$	31,500.00
Water Main Connection, 10 inch	2	Each	\$	5,500.00	\$	11,000.00
Water Main Connection, 48 inch	1	Each	\$	30,000.00	\$	30,000.00
Water Service (WM to Valve Box)	22	Each	\$	900.00	\$	19,800.00
_ Water Service, Special	22	Each	\$	4,500.00	\$	99,000.00
Mismarked Water Services	16	Hrs	\$	350.00	\$	5,600.00
_ Iviisiilaiked water Services	10	1113	Ų	330.00	ڔ	3,000.00
<u>Pavement</u>						
Pavt Repr, Rem	242	Syd	\$	10.00	\$	2,420.00
Pavt Repr, Nonreinf Conc, 8 inch	242	Syd	\$	90.00	\$	21,780.00
Curb and Gutter, Rem	242	FT	\$	10.00	\$	2,420.00
Curb and Gutter, Conc, Det F4, Modified	242	FT	\$	25.00	\$	6,050.00
Sidewalk, Rem	273	Syd	\$	9.00	\$	2,457.00
Sidewalk, Conc, 4 inch	1100	Sft	\$	6.00	\$	6,600.00
Sidewalk Ramp, Conc, 8 inch	1350	Sft	\$	9.50	\$	12,825.00
Aggregate Base, 6 inch	474	Syd	\$	10.00	\$	4,740.00
_ Driveway, Rem	178	Syd	\$	11.00	\$	1,958.00
Driveway, Nonreinf Conc, 8 inch	178	Syd	\$	60.00	\$	10,680.00
Soil Erosion						
_ Erosion Control, Inlet Filter	20	Each	\$	175.00	\$	3,500.00
Turf Establishment	1	LSUM	\$	10,000.00	-	10,000.00
_ run Establishment	1	LJUIVI	ڔ	10,000.00	ڔ	10,000.00
MISC Work						
Mobilization, Max 8%	1	LSUM	\$	89,240.00	\$	89,240.00
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$	5,000.00
_ Permitting Allowance	1	LSUM	\$	1,500.00	\$	1,500.00
Tree, Rem, 19 inch to 36 inch	1	Each	\$	1,200.00	\$	1,200.00
Tree, Rem, 6 inch to 18 inch	8	Each	\$	750.00	\$	6,000.00
_ Tree, Rem, Less than 6 inch	1	Each	\$	500.00	\$	500.00
_ Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$	2,500.00
– Maintenance Gravel	300	TON	\$	50.00	\$	15,000.00
			7	TOTAL COST	\$	1,204,703.00
CONSTRUCTION COST						4 204 702 5
CONSTRUCTION COST					\$	1,204,703.00
Design Engineering (5.5%)					\$	66,260.00
Construction Engineering (15%)					\$	180,710.00
Material Testing (1.5%)					\$	18,070.00
Contingencies (10%)					\$	120,470.00
TOTAL COST					\$	1,590,213.00
NOTE:						
NOTE. Design Engineering includes topographical survey, design and	d preparation of hid do	cuments				



51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234

Fax No: 586-726-8780

#### **PRELIMINARY ESTIMATE**

**AEW PROJECT NO. 0175-0120** 

PROJECT: Water Asset Management Report Updates

West 10 mile Road - West side to Woodward

OWNER: City of Pleasant Ridge

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

WORK ITEM	QUANTITY	UNIT	Ų	JNIT PRICE	AMOUNT
Water Main					
Water Main Abandon, 12 inch	2680	FT	\$	12.00	\$ 32,160.00
_ Fire Hydrant, Assembely	5	Each	\$	5,000.00	\$ 25,000.00
Fire Hydrant, Rem	5	Each	\$	675.00	\$ 3,375.00
Gate Valve and Well, 8 inch	5	Each	\$	6,200.00	\$ 31,000.00
_Gate Valve and Well, Rem	5	Each	\$	1,000.00	\$ 5,000.00
Water Main, C900 PVC, 8 inch, Directional Drill	2680	FT	\$	160.00	\$ 428,800.00
Water Main Connection, 6 inch	1	Each	\$	3,500.00	\$ 3,500.00
Water Main Connection, 8 inch	1	Each	\$	4,500.00	\$ 4,500.00
Water Main Connection, 10 inch	1	Each	\$	5,500.00	\$ 5,500.00
Water Main Connection, 48 inch	1	Each	\$	30,000.00	\$ 30,000.00
Mismarked Water Services	16	Hrs	\$	350.00	\$ 5,600.00
Pavement					
Pavt Repr, Rem	78	Syd	\$	10.00	\$ 780.00
Pavt Repr, Nonreinf Conc, 8 inch	78	Syd	\$	90.00	\$ 7,020.00
Curb and Gutter, Rem	70	FT	\$	10.00	\$ 700.00
_ Curb and Gutter, Conc, Det F4, Modified	70	FT	\$	25.00	\$ 1,750.00
Sidewalk, Rem	124	Syd	\$	9.00	\$ 1,116.00
Sidewalk, Conc, 4 inch	900	Sft	\$	6.00	\$ 5,400.00
Sidewalk Ramp, Conc, 8 inch	215	Sft	\$	9.50	\$ 2,042.50
Aggregate Base, 6 inch	94	Syd	\$	10.00	\$ 940.00
Soil Erosion					
_ Turf Establishment	1	LSUM	\$	10,000.00	\$ 10,000.00
MISC Work					
Mobilization, Max 8%	1	LSUM	\$	49,450.00	\$ 49,450.00
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$ 5,000.00
_ Permitting Allowance	1	LSUM	\$	1,500.00	\$ 1,500.00
Tree, Rem, 19 inch to 36 inch	0	Each	\$	1,200.00	\$ -
Tree, Rem, 6 inch to 18 inch	0	Each	\$	750.00	\$ -
_ Tree, Rem, Less than 6 inch	0	Each	\$	500.00	\$ -
_ Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$ 2,500.00
Maintenance Gravel	100	TON	\$	50.00	\$ 5,000.00
				TOTAL COST	\$ 667,633.50
CONSTRUCTION COST					\$ 667,633.50
Design Engineering (6.6%)					\$ 44,060.00
Construction Engineering (15%)					\$ 100,150.00
Materila Testing (1.5%)					\$ 10,010.00
Contingencies (10%)					\$ 66,760.00
TOTAL COST					\$ 888,613.50
NOTE:					
Design Engineering includes topographical survey, design an	d preparation of bid doc	uments.			
Construction Engineering includes contract administration, c			ing se	ervices.	



51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234

Fax No: 586-726-8780

#### PRELIMINARY ESTIMATE

**AEW PROJECT NO. 0175-0120** 

PROJECT: Water Asset Management Report Updates

East 10 mile Road - Woodward to East side

City of Pleasant Ridge OWNER:

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

	DATE:		2/5	/2020	
WORK ITEM	QUANTITY	UNIT	l	JNIT PRICE	AMOUNT
Water Main					
_ Water Main Abandon, 6 inch	2800	FT	\$	8.00	\$ 22,400.00
_ Fire Hydrant, Assembely	10	Each	\$	5,000.00	\$ 50,000.00
Fire Hydrant, Rem	10	Each	\$	675.00	\$ 6,750.00
Gate Valve and Well, 8 inch	4	Each	\$	6,200.00	\$ 24,800.00
_Gate Valve and Well, Rem	4	Each	\$	1,000.00	\$ 4,000.00
_ Water Main, C900 PVC, 8 inch, Directional Drill	2800	FT	\$	160.00	\$ 448,000.00
_ Water Main Connection, 6 inch	4	Each	\$	3,500.00	\$ 14,000.00
_ Water Main Connection, 8 inch	1	Each	\$	4,500.00	\$ 4,500.00
_ Water Main Connection, 10 inch	1	Each	\$	5,500.00	\$ 5,500.00
_ Mismarked Water Services	16	Hrs	\$	350.00	\$ 5,600.00
Pavement					
Pavt Repr, Rem	67	Syd	\$	10.00	\$ 670.00
Pavt Repr, Nonreinf Conc, 8 inch	67	Syd	\$	90.00	\$ 6,030.00
Curb and Gutter, Rem	60	FT	\$	10.00	\$ 600.00
_ Curb and Gutter, Conc, Det F4, Modified	60	FT	\$	25.00	\$ 1,500.00
Sidewalk, Rem	84	Syd	\$	9.00	\$ 756.00
Sidewalk, Conc, 4 inch	400	Sft	\$	6.00	\$ 2,400.00
Sidewalk Ramp, Conc, 8 inch	350	Sft	\$	9.50	\$ 3,325.00
Aggregate Base, 6 inch	81	Syd	\$	10.00	\$ 810.00
Soil Erosion					
_ Turf Establishment	1	LSUM	\$	10,000.00	\$ 10,000.00
MISC Work					
Mobilization, Max 8%	1	LSUM	\$	50,170.00	\$ 50,170.00
_ Traffic Control & Maintainance	1	LSUM	\$	5,000.00	\$ 5,000.00
_ Permitting Allowance	1	LSUM	\$	1,500.00	\$ 1,500.00
Tree, Rem, 6 inch to 18 inch	2	Each	\$	750.00	\$ 1,500.00
_ Audio Visual Record of Construction Area	1	LSUM	\$	2,500.00	\$ 2,500.00
Maintenance Gravel	100	TON	\$	50.00	\$ 5,000.00
			7	TOTAL COST	\$ 677,311.00
CONSTRUCTION COST					\$ 677,311.00
Design Engineering (6.6%)					\$ 44,700.00
Construction Engineering (15%)					\$ 101,600.00
Material Testing (1.5%)					\$ 10,160.00
Contingencies (10%)					\$ 67,730.00
TOTAL COST					\$ 901,501.00
NOTE:					
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Design Engineering includes topographical survey, design and preparation of bid documents.



ANDERSON, ECKSTEIN & WESTRICK, INC. 51301 Schoenherr Road Shelby Township, MI 48315 Phone: 586-726-1234 Fax No: 586-726-8780

## **PRELIMINARY ESTIMATE**

**AEW PROJECT NO. 0175-0120** 

PROJECT: Water Asset Management

Report Updates

City of Pleasant Ridge OWNER:

PREPARED BY: Nicholas P. Todino

DATE: 2/4/2020

CHECKED BY: Michael D. Smith, PE

DATE: 2/5/2020

WORK ITEM		TOTAL	
Woodside park Blvd Oakdale to Ridge	\$	604,244.00	
Kenberton Drive - Oakdale to Ridge	\$	513,268.00	
Elm Park Ave Oakdale to Ridge	\$	553,967.00	
Norwich Road - Oakdale to Ridge	\$	592,796.50	
Hanover Road - Oakdale to Ridge	\$	619,777.00	
Cambridge Blvd Maplefield to Ridge	\$	761,467.00	
Oakdale Blvd W 10 mile to Cambridge	\$	1,213,538.00	
Ridge Road - 1696 to South Side	\$	929,861.50	
Poplar Park Blvd Ridge to Woodward	\$	518,521.00	
Oakland Park Blvd Ridge to Woodward	\$	704,988.00	
Oxford Blvd Ridge to Woodward	\$	862,539.50	
Cambridge Blvd Oxford to Woodward	\$	980,266.00	
Kensington Blvd South Main to End	\$	1,219,328.00	
Devonshire Road - Woodward to End	\$	1,163,064.00	
Wellesley Drive - Woodward to End	\$	1,236,599.00	
Amherst Road - Woodward to End	\$	1,089,054.00	
Maywood Ave Woodward to End	\$	1,088,648.00	
Sylvan Ave Woodward to End	\$	1,060,250.50	
Fairwood Blvd Woodward to End	\$	1,015,712.00	
Woodward Heights Blvd Woodward to East Side	\$	983,594.00	
Gainsborough Ave. and along railroad tracks	\$	551,695.00	
Woodward - West Side	\$	394,104.00	
Woodward - East Side	\$	1,204,703.00	
West 10 mile Road - West side to Woodward	\$	667,633.50	
East 10 mile Road - Woodward to East side	\$	677,311.00	
CONSTRUCTION	ON TOTAL \$	21,206,929.50	

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## **ANDERSON, ECKSTEIN & WESTRICK, INC.** 51301 Schoenherr Road

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## **PRELIMINARY ESTIMATE**

**AEW PROJECT NO. 0175-0120** 

PROJECT: Water Asset Management

Report Updates

OWNER: City of Pleasant Ridge

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Kenberton Drive - Oakdale to Ridge Elm Park Ave Oakdale to Ridge Norwich Road - Oakdale to Ridge Hanover Road - Oakdale to Ridge	\$ \$ \$ \$	805,454.00 684,708.00
	\$ \$	684,708.00
Kenberton Drive - Oakdale to Ridge Elm Park Ave Oakdale to Ridge Norwich Road - Oakdale to Ridge Hanover Road - Oakdale to Ridge	\$ \$	684,708.00
Elm Park Ave Oakdale to Ridge Norwich Road - Oakdale to Ridge Hanover Road - Oakdale to Ridge	\$	· ·
Norwich Road - Oakdale to Ridge Hanover Road - Oakdale to Ridge		720 447 00
Hanover Road - Oakdale to Ridge	ς .	738,447.00
•	Y	790,196.50
	\$	826,167.00
Cambridge Blvd Maplefield to Ridge	\$	1,012,757.00
Oakdale Blvd W 10 mile to Cambridge	\$	1,600,648.00
Ridge Road - 1696 to South Side	\$	1,234,861.50
Poplar Park Blvd Ridge to Woodward	\$	691,711.00
Oakland Park Blvd Ridge to Woodward	\$	938,338.00
Oxford Blvd Ridge to Woodward	\$	1,146,309.50
Cambridge Blvd Oxford to Woodward	\$	1,301,796.00
Kensington Blvd South Main to End	\$	1,608,288.00
Devonshire Road - Woodward to End	\$	1,535,254.00
Wellesley Drive - Woodward to End	\$	1,631,079.00
Amherst Road - Woodward to End	\$	1,440,834.00
Maywood Ave Woodward to End	\$	1,439,188.00
Sylvan Ave Woodward to End	\$	1,402,710.50
Fairwood Blvd Woodward to End	\$	1,347,852.00
Woodward Heights Blvd Woodward to East Side	\$	1,305,224.00
Gainsborough Ave. and along railroad tracks	\$	735,965.00
Woodward - West Side	\$	526,924.00
Woodward - East Side	\$	1,590,213.00
West 10 mile Road - West side to Woodward	\$	888,613.50
East 10 mile Road - Woodward to East side	\$	901,501.00
TOTAL	COST \$	28,125,039.50