

PRELIMINARY ENGINEER'S ESTIMATE  
2021 RECLAMATION AND OVERLAY PROJECT  
CITY OF NORTHFIELD  
PROJECT NO. 2021STRT-A46

SCHEDULE "A" STREETS

MAYFLOWER HILL AREA

TH 3 FRONTAGE ROAD AREA

LINE NO.	ITEM	UNIT	UNIT PRICE	TOTAL ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED PRICE	ESTIMATED QUANTITY	ESTIMATED PRICE
1	MOBILIZATION	LS	\$100,000.00	1.00	0.75	\$75,000.00	0.25	\$25,000.00
2	CLEARING	TREE	\$308.20	35.00	17.00	\$5,239.40	18	\$5,547.60
3	GRUBBING	TREE	\$423.25	35.00	17.00	\$7,195.25	18	\$7,618.50
4	SALVAGE SIGN	EACH	\$46.00	8.00	3.00	\$138.00	5	\$230.00
5	SAWING BIT PAVEMENT (FULL DEPTH)	LF	\$2.27	747.00	288.00	\$653.76	459	\$1,041.93
6	REMOVE CURB AND GUTTER	LF	\$10.00	3871.00	2924.00	\$29,240.00	947	\$9,470.00
7	REMOVE CONCRETE DRIVEWAY PAVEMENT	SY	\$24.54	272.00	122.00	\$2,993.88	150	\$3,681.00
8	REMOVE CONCRETE VALLEY GUTTER	SY	\$16.00	73.00	73.00	\$1,168.00	0	\$0.00
9	REMOVE BITUMINOUS PAVEMENT	SY	\$6.45	7085.00	0.00	\$0.00	7085	\$45,698.25
10	REMOVE BITUMINOUS BASE PAVEMENT	SY	\$3.15	18414.00	0.00	\$0.00	18414	\$58,004.10
11	REMOVE BITUMINOUS WALK	SF	\$1.75	1466.00	187.00	\$327.25	1279	\$2,238.25
12	REMOVE CONCRETE WALK	SF	\$1.25	3629.00	2977.00	\$3,721.25	652	\$815.00
13	RELOCATE SPRINKLER SYSTEM	LF	\$6.02	1200.00	600.00	\$3,612.00	600	\$3,612.00
14	SALVAGE CONCRETE PAVERS	SF	\$25.00	400.00	400.00	\$10,000.00	0	\$0.00
15	COMMON EXCAVATION (CY) (P)	LS	\$11.00	11000.00	10800.00	\$118,800.00	200	\$2,200.00
16	SUBGRADE EXCAVATION	CY	\$25.00	3441.00	3441.00	\$86,025.00	0	\$0.00
17	SELECT GRANULAR BORROW (CV)	CY	\$20.00	5800.00	5800.00	\$116,000.00	0	\$0.00
18	COMMON LABORERS	HOURL	\$75.00	50.00	25.00	\$1,875.00	25	\$1,875.00
19	SKID LOADER	HOURL	\$143.20	50.00	25.00	\$3,580.00	25	\$3,580.00
20	STREET SWEEPER (WITH PICKUP BROOM)	HOURL	\$120.00	75.00	50.00	\$6,000.00	25	\$3,000.00
21	AGGREGATE BASE CLASS 5	TON	\$22.00	500.00	500.00	\$11,000.00	0	\$0.00
22	FULL DEPTH RECLAMATION	SY	\$1.45	34412.00	34412.00	\$49,897.40	0	\$0.00
23	SHOULDER BASE AGGREGATE (LV) CLASS 2	TON	\$25.00	400.00	400.00	\$10,000.00	0	\$0.00
24	MILL BITUMINOUS SURFACE (2.0")	SY	\$1.50	16620.00	0.00	\$0.00	16620	\$24,930.00
25	CRACK REPAIR SPECIAL	LF	\$10.00	2466.00	0.00	\$0.00	2466	\$24,660.00
26	BITUMINOUS MATERIAL FOR TACK COAT	GAL	\$2.33	3561.00	2065.00	\$4,811.45	1496	\$3,485.68
27	TYPE SP 9.5 WEARING COURSE MIX (3;B)	TON	\$73.00	2103.00	0.00	\$0.00	2103	\$153,519.00
28	TYPE SP 9.5 WEARING COURSE MIX (3;C)	TON	\$80.57	10041.00	8327.00	\$670,906.39	1714	\$138,096.98
29	4" CONCRETE WALK	SF	\$10.00	9239.00	2977.00	\$29,770.00	6262	\$62,620.00
30	4" CONCRETE WALK - EXPOSED AGGREGATE	SF	\$20.00	250.00	250.00	\$5,000.00	0	\$0.00
31	4" CONCRETE WALK SPECIAL	SF	\$13.00	775.00	575.00	\$7,475.00	200	\$2,600.00
32	6" CONCRETE WALK	SF	\$15.50	1559.00	1094.00	\$16,957.00	465	\$7,207.50
33	3" BITUMINOUS WALK	SF	\$11.15	13680.00	1541.00	\$17,182.15	12139	\$135,349.85
34	CONCRETE CURB AND GUTTER DESIGN B618	LF	\$39.40	3871.00	2924.00	\$115,205.60	947	\$37,311.80
35	6" CONCRETE DRIVEWAY PAVEMENT	SY	\$98.31	272.00	122.00	\$11,993.82	150	\$14,746.50
36	CONCRETE CURB DESIGN V	LF	\$66.15	200.00	150.00	\$9,922.50	50	\$3,307.50
37	7" CONCRETE VALLEY GUTTER	SY	\$150.00	146.00	146.00	\$21,900.00	0	\$0.00

38	TRUNCATED DOMES	SF	\$57.00	300.00	210.00	\$11,970.00	90	\$5,130.00
39	INSTALL SALVAGED BRICK PAVERS	SF	\$25.00	400.00	400.00	\$10,000.00	0	\$0.00
40	TRAFFIC CONTROL	LS	\$24,350.00	1.00	0.50	\$12,175.00	0.5	\$12,175.00
41	INSTALL SALVAGED SIGNS	EACH	\$325.00	8.00	3.00	\$975.00	5	\$1,625.00
42	DECIDIOUS TREE 2.5" CAL B&B	TREE	\$726.75	70.00	34.00	\$24,709.50	36	\$26,163.00
43	CLEAN ROOT CUTTING	LF	\$5.95	50.00	25.00	\$148.75	25	\$148.75
44	COMMON TOPSOIL BORROW	CY	\$44.00	338.00	145.00	\$6,380.00	193	\$8,492.00
45	SODDING TYPE LAWN	SY	\$10.00	2794.00	1207.00	\$12,070.00	1587	\$15,870.00
46	SEEDING (ACRE)	ACRE	\$4,000.00	0.10	0.00	\$0.00	0.1	\$400.00
47	6" SOLID LING MULT COMP	LF	\$1.75	536.00	448.00	\$784.00	88	\$154.00
48	24" SOLID LINE MULTI COMP	LF	\$8.29	114.00	75.00	\$621.75	39	\$323.31
49	CROSSWALK MULT COMP	SF	\$5.30	216.00	216.00	\$1,144.80	0	\$0.00
SCHEDULE "A" STREETS					SUBTOTAL		\$1,534,568.90	\$851,927.50
10% CONTINGENCY							\$153,456.89	\$85,192.75
SCHEDULE "A" STREETS							\$1,688,025.79	\$937,120.25

SCHEDULE "B" STORM					MAYFLOWER HILL AREA		TH 3 FRONTAGE ROAD AREA	
LINE NO.	ITEM	UNIT	UNIT PRICE	TOTAL ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED PRICE	ESTIMATED QUANTITY	ESTIMATED PRICE
50	REMOVE DRAINAGE STRUCTURE	EACH	\$461.00	3.00	2	\$922.00	1	\$461.00
51	REMOVE CASTING	EACH	\$156.00	15.00	7	\$1,092.00	8	\$1,248.00
52	4" PERF TP PIPE DRAIN	LF	\$10.00	18000.00	18000	\$180,000.00	0	\$0.00
53	CONNECT TO EXISTING STORM SEWER	EACH	\$1,300.00	3.00	3	\$3,900.00	0	\$0.00
54	TRENCH DRAIN	LF	\$50.00	75.00	0	\$0.00	75	\$3,750.00
55	ADJUST FRAME & RING CASTING (STORM)	EACH	\$200.00	120.00	68	\$13,600.00	52	\$10,400.00
56	CONST DRAINAGE STRUCTURE DESIGN SPECIAL	LF	\$580.00	9.00	6	\$3,480.00	3	\$1,740.00
57	CASTING ASSEMBLY (STORM 3067)	EACH	\$750.00	3.00	2	\$1,500.00	1	\$750.00
58	CASTING ASSEMBLY (STORM 1642)	EACH	\$767.50	3.00	2	\$1,535.00	1	\$767.50
59	GROUT CATCH BASIN OF MANHOLE	EACH	\$363.00	26.00	4	\$1,452.00	22	\$7,986.00
60	STORM DRAIN INLET PROTECTION	EACH	\$215.00	103.00	64	\$13,760.00	39	\$8,385.00
SCHEDULE "B" STREETS					SUBTOTAL		\$221,241.00	\$35,487.50
10% CONTINGENCY							\$22,124.10	\$3,548.75
SCHEDULE "B" STREETS							\$243,365.10	\$39,036.25

SCHEDULE "C" SANITARY					MAYFLOWER HILL AREA	TH 3 FRONTAGE ROAD AREA		
LINE NO.	ITEM	UNIT	UNIT PRICE	TOTAL ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED PRICE	ESTIMATED QUANTITY	ESTIMATED PRICE
61	REMOVE CASTING	EACH	\$156.00	4.00	0	\$0.00	4	\$624.00
62	CASTING ASSEMBLY (SANITARY)	EACH	\$900.00	4.00	0	\$0.00	4	\$3,600.00
63	ADJUST FRAME & RING CASTING	EACH	\$613.00	60.00	52	\$31,876.00	8	\$4,904.00
SCHEDULE "C" SANITARY SUBTOTAL					\$31,876.00		\$9,128.00	
10% CONTINGENCY					\$3,187.60		\$912.80	
SCHEDULE "C" SANITARY					\$35,063.60		\$10,040.80	

SCHEDULE "D" WATERMAIN					MAYFLOWER HILL AREA	TH 3 FRONTAGE ROAD AREA		
LINE NO.	ITEM	UNIT	UNIT PRICE	TOTAL ESTIMATED QUANTITY	ESTIMATED QUANTITY	ESTIMATED PRICE	ESTIMATED QUANTITY	ESTIMATED PRICE
64	REMOVE VALVE BOX	EACH	\$300.00	10.00	2.00	\$600.00	4	\$1,200.00
65	VALVE BOX	EACH	\$1,550.00	10.00	7	\$10,850.00	3	\$4,650.00
66	ADJUST VALVE BOX	EACH	\$425.00	52.00	35	\$14,875.00	17	\$7,225.00
SCHEDULE "D" WATERMAIN SUBTOTAL					\$26,325.00		\$13,075.00	
10% CONTINGENCY					\$2,632.50		\$1,307.50	
SCHEDULE "D" WATERMAIN					\$28,957.50		\$14,382.50	

TOTAL CONSTRUCTION					MAYFLOWER HILL AREA	TH 3 FRONTAGE ROAD AREA		
SCHEDULE "A" STREETS				SUBTOTAL	\$1,534,569		\$851,928	
SCHEDULE "B" STORM SEWER				SUBTOTAL	\$221,241		\$35,488	
SCHEDULE "C" SANITARY				SUBTOTAL	\$31,876		\$9,128	
SCHEDULE "D" WATERMAIN				SUBTOTAL	\$26,325		\$13,075	
TOTAL CONSTRUCTION					\$1,814,011		\$909,618	

		MAYFLOWER HILL AREA	TH 3 FRONTAGE ROAD AREA
CONSTRUCTION SUBTOTAL		\$1,814,011	\$909,618
10% CONTINGENCY		\$181,401	\$90,962
CONSTRUCTION TOTAL		\$1,995,412	\$1,000,580
20% CONSTRUCTION OVERHEAD		\$399,082	\$200,116
PROJECT COST		\$2,394,494	\$1,200,696
		TOTAL PROJECT COST	\$3,595,190

ESTIMATED PROJECT COSTS				
ECRT ALIGNMENT #1				
	Mayflower Hill Area	TH 3 Frontage Road Area	East Cannon River Trail Alignment 1	TOTAL
Street	\$1,534,569	\$851,928	\$118,749	\$2,505,246
Storm Sewer	\$221,241	\$35,488	\$8,200	\$264,929
Sanitary Sewer	\$31,876	\$9,128	\$0	\$41,004
Watermain	\$26,325	\$13,075	\$0	\$39,400
<b>Construction Subtotal</b>	<b>\$1,814,011</b>	<b>\$909,619</b>	<b>\$126,949</b>	<b>\$2,850,579</b>
Construction Contingency (10%)	\$181,401	\$90,962	\$0	\$272,363
Construction Contingency (15 %)	\$0	\$0	\$19,042	\$19,042
<b>Total Construction</b>	<b>\$1,995,412</b>	<b>\$1,000,581</b>	<b>\$145,991</b>	<b>\$3,141,984</b>
Permanent Easement	\$0	\$0	\$41,100	\$41,100
Temporary Easement	\$0	\$0	\$8,250	\$8,250
Wetland Mitigation	\$0	\$0	\$9,900	\$9,900
<b>Project Subtotal</b>	<b>\$1,995,412</b>	<b>\$1,000,581</b>	<b>\$205,241</b>	<b>\$3,201,234</b>
Overhead (50%)	\$0	\$0	\$102,621	\$102,621
Overhead (20%)	\$399,082	\$200,116	\$0	\$0
<b>Total Project Costs</b>	<b>\$2,394,495</b>	<b>\$1,200,697</b>	<b>\$307,862</b>	<b>\$3,903,054</b>

ESTIMATED PROJECT COSTS				
ECRT ALIGNMENT #2				
	Mayflower Hill Area	TH 3 Frontage Road Area	East Cannon River Trail Alignment 2	TOTAL
Street	\$1,534,569	\$851,928	\$93,961	\$2,480,458
Storm Sewer	\$221,241	\$35,488	\$109,100	\$365,829
Sanitary Sewer	\$31,876	\$9,128	\$0	\$41,004
Watermain	\$26,325	\$13,075	\$0	\$39,400
<b>Construction Subtotal</b>	<b>\$1,814,011</b>	<b>\$909,619</b>	<b>\$203,061</b>	<b>\$2,926,691</b>
Construction Contingency (10%)	\$181,401	\$90,962	\$0	\$272,363
Construction Contingency (15 %)	\$0	\$0	\$30,459	\$30,459
<b>Total Construction</b>	<b>\$1,995,412</b>	<b>\$1,000,581</b>	<b>\$233,520</b>	<b>\$3,229,513</b>
Permanent Easement	\$0	\$0	\$21,300	\$21,300
Temporary Easement	\$0	\$0	\$4,575	\$4,575
Wetland Mitigation	\$0	\$0	\$12,600	\$12,600
<b>Project Subtotal</b>	<b>\$1,995,412</b>	<b>\$1,000,581</b>	<b>\$271,995</b>	<b>\$3,267,988</b>
Overhead (50%)	\$0	\$0	\$135,998	\$135,998
Overhead (20%)	\$399,082	\$200,116	\$0	\$0
<b>Total Project Costs</b>	<b>\$2,394,495</b>	<b>\$1,200,697</b>	<b>\$407,993</b>	<b>\$4,003,184</b>

ESTIMATED TOTAL PROJECT FUNDING				
ECRT ALIGNMENT #1				
	Mayflower Hill Area	TH 3 Frontage Road Area	East Cannon River Trail Alignment 1	TOTAL
Bonding	\$1,059,238	\$933,604	\$287,976	\$2,280,818
Assessments	\$966,393	\$190,941	\$0	\$1,157,334
Storm Fund	\$292,038	\$46,844	\$19,886	\$358,768
Sanitary Fund	\$42,076	\$12,049	\$0	\$54,125
Watermain Fund	\$34,749	\$17,259	\$0	\$52,008
<b>Total Project Costs</b>	<b>\$2,394,495</b>	<b>\$1,200,697</b>	<b>\$307,862</b>	<b>\$3,903,054</b>

ESTIMATED TOTAL PROJECT FUNDING				
ECRT ALIGNMENT #2				
	Mayflower Hill Area	TH 3 Frontage Road Area	East Cannon River Trail Alignment 2	TOTAL
Bonding	\$1,059,238	\$933,604	\$188,788	\$2,181,630
Assessments	\$966,393	\$190,941	\$0	\$1,157,334
Storm Fund	\$292,038	\$46,844	\$219,205	\$558,087
Sanitary Fund	\$42,076	\$12,049	\$0	\$54,125
Watermain Fund	\$34,749	\$17,259	\$0	\$52,008
<b>Total Project Costs</b>	<b>\$2,394,495</b>	<b>\$1,200,697</b>	<b>\$407,993</b>	<b>\$4,003,184</b>

PROPOSED ASSESSMENT RATES	
Property Type	Assessment Rate
Reclaim-Residential	\$58
Mill & Overlay-Commercial	\$31
Mill & Overlay-Residential	\$46
Mill & Overlay-Multifamily	\$59