

GMP SUMMARY
2019



STREET
MAINTENANCE
PROGRAM

GMP SUMMARY



**C and E
PAVING & GRADING L.L.C.**

PROJECT NAME:	City of Flagstaff Street Maintenance Program 2019
PROJECT NUMBER:	01-19001
LAST UPDATED:	4/15/2019
OWNER(S):	City of Flagstaff
BILLNG ADDRESS:	211 West Aspen Avenue
JOB SITE ADDRESS:	various locations -
OWNER PHONE:	(928) 779-7685

GMP SUMMARY			
A	COST OF THE WORK (LABOR, MATERIALS, EQUIPMENT)		\$3,346,218.86
B	CM@RISK'S CONTINGENCY		\$200,000.00
	INDIRECT COSTS	RATE	\$3,546,218.86
C	CONSTRUCTION FEE	4.8%	\$213,034.76
D	GENERAL CONDITIONS	9.8%	\$434,946.00
	D1	PAYMENT AND PERFORMANCE BOND	\$27,872.05
	D2	INSURANCE	\$55,033.98
E	SALES TAX	(8.951)	\$244,024.83
		F. TOTAL GMP	\$4,438,224.43
		G. OWNER'S CONTINGENCY	\$200,000.00
		H. CONTRACT AMOUNT	\$4,638,224.43

CITY OF FLAGSTAFF
GENERAL CONDITIONS ESTIMATE



**C and E
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JOB SITE ADDRESS:	various locations
OWNER PHONE:	(928) 779-7685

PHASE #	CATEGORY DESCRIPTION	NOTES / SCOPE	BUDGET
General Requirements			
1	VEHICLE / FUEL ALLOWANCE		\$57,880.06
1	PROJECT MANAGER		\$78,006.72
1	SUPERINTENDENT		\$63,366.84
1	OFFICE PERSONNEL		\$10,783.72
1	OFFICE SUPPLIES AND EQUIPMENT		\$3,135.77
1	SITE MECHANIC & SERVICE TRUCK		\$36,650.40
1	TEMP SANITARY FACILITIES		\$1,776.61
1	ADDITIONAL PUBLIC NOTICES AND DELIVERY/ LIME / CONCRETE PLASTIC		\$4,714.98
	SURVEY		\$3,350.38
1	MOBILIZATION		\$36,896.71
1	WARRANTY RESERVE	1.25% OF PROJECT	\$55,477.81
1	GL INSURANCE	1.24% OF PROJECT	\$55,033.98
1	PERFORMANCE BOND	.0062827% OF PROJECT	\$27,872.05
TOTAL			\$434,946.00

**COST SCHEDULE
OF VALUES**

2019 COF STREETS					
<i>Schedule of Values</i>					
<i>OVERLAY</i>					
NO.	DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
1	ADJUST MANHOLE FRAME & COVER (CITY DTL. 9-03-060)	83	EA	\$602.00	\$49,966.00
2	AIRPORT CRACK FILL	N/A	T	\$0.00	\$0.00
3	BITUMINOUS MATERIAL (CRS-2P)	N/A	T	\$0.00	\$0.00
4	COVER MATERIAL (CM-11)	N/A	T	\$0.00	\$0.00
5	CRACK SEALING	55.8	T	\$3,650.00	\$203,670.00
6	HOT MIX ASPHALT - (LARGE THERMAL CRACK FILLER)	100	T	\$250.00	\$25,000.00
7	LOWER MANHOLE FRAME & COVER, SEWER CLEANOUT, BLOWOFFS AND SURVEY HANDHOLES	59	EA	\$399.00	\$23,541.00
8	MODIFIED ASPHALTIC CONCRETE	10,519.2	T	\$122.40	\$1,287,550.08
9	PAVEMENT MILLING	49,161	SY	\$2.32	\$114,053.52
10	REMOVE AND REPLACE CONCRETE APRON & VALLEY GUTTER	3,659.7	SF	\$22.40	\$81,977.28
11	REMOVE AND REPLACE CONCRETE DRIVEWAY (INCLUDING. 6"ABC)	6,232.7	SF	\$24.15	\$150,519.71
12	REMOVE AND REPLACE CURB AND GUTTER (ROLL- IN CLUDING 3" ABC)	305	LF	\$32.37	\$9,872.85
13	REMOVE AND REPLACE CURB AND GUTTER (VERTICAL- INCLUDING. 3"ABC)	1,821	LF	\$38.70	\$70,472.70
14	REMOVE AND REPLACE CURB IN APRON	827	LF	\$36.85	\$30,474.95
15	REMOVE AND REPLACE PAVEMENT (4" AC [C-3/4"]) PATCH	608.0	SY	\$81.00	\$49,248.00
16	REMOVE AND REPLACE SEWER MANHOLE	N/A	EA	\$0.00	\$0.00
17	REMOVE AND REPLACE SIDEWALK (INCLUDING. 3"ABC)	31,697.4	SF	\$12.45	\$394,632.63
18	REMOVE AND REPLACE SURVEY MONUMENTS	18.0	EA	\$205.20	\$3,693.60
19	REMOVE RAMP & INSTALL DETECTABLE WARNING (ADA Ramp MAG 235-3) INCLUDING 3" ABC	24	EA	\$1,973.00	\$47,352.00
20	REMOVE RAMP & INSTALL DETECTABLE WARNING (ADA Ramp MAG 235-4) INCLUDING 3" ABC	8	EA	\$1,987.00	\$15,896.00
21	REMOVE, REPLACE & ADJUST WATER VALVE BOX & COVER (C & E to furnish new hardware all valve boxes new to nut.)	54	EA	\$760.00	\$41,040.00
22	STREET REBUILDING & PATCHING CONTINGENCY	300	SY	\$61.00	\$18,300.00
23	STRIPING AND MARKING	1	LS	\$71,432.39	\$71,432.39
24	TACK COAT (SS-1H)	31.2	T	\$1,196.00	\$37,315.20
25	TRAFFIC CONTROL	1	LS	\$388,657.90	\$388,657.90
26	LOWER WATER VALVE BOX	50	EA	\$383.00	\$19,150.00
27	ADJUST SEWER CLEANOUT, BLOWOFFS AND SURVEY HANDHOLES (CITY DTL. 9-03-062)	7	EA	\$534.00	\$3,738.00
28	CONSTRUCTION SURVEY	1	LS	\$9,800.00	\$9,800.00
29	REMOVE RAMP & RETROFIT DETECTABLE WARNING (ADA Ramp MAG 232) INCLUDING 3" ABC	17	EA	\$1,510.00	\$25,670.00
30	MILL AND FILL LARGE THERMAL CRACKS ON FOREST AVE. / CEDAR AVE.	5,525	LF	\$12.37	\$68,344.25
31	MILL AND FILL LARGE THERMAL CRACKS ON LAKE MARY ROAD	4,080	LF	\$12.00	\$48,960.00
32	FOG COAT LAKE MARY (WALAPAI TO CITY LIMITS)	N/A	T	\$0.00	\$0.00
33	FOG COAT HIGH COUNTRY TRAIL (WILD WEST TO PULLIAM) & PULLIAM (HIGH COUNTRY TO J.W. POWELL)	N/A	T	\$0.00	\$0.00
34	Mill 4 inch depth METZ WALK (5,880 S.F.) Install 2-3/4 inch C.O.F. 3/4 mix and 1-1/4 inch PMRAC	5,880	SF	\$4.21	\$24,754.80
35	RECONSTRUCT ROADWAY (THORPE RD. & BONITO STREET INTERSECTION (115 x 30) Water Valve	400	S.Y.	\$62.00	\$24,800.00
36	ROADWAY SHOULDERING (AZTEC)	7200	SF	\$0.88	\$6,336.00

TOTAL COST=	\$3,346,218.86
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BID NO.	BID ITEM	DESCRIPTION	FORECAST QUANTITIES	UNIT	UNIT COST	UNIT COST FORECAST	TOTAL COST FORECAST
1	ADJUST MANHOLE FRAME & COVER (CITY DTL. 9-03-060)	SUBCONTRACTOR	83	EA	\$560.00	\$46,480.00	
		MATERIALS			\$0.00	\$0.00	
		EQUIPMENT			\$0.00	\$0.00	
		LABOR			\$42.00	\$3,486.00	
				83	EA	\$602.00	Total:
2	AIRPORT CRACK FILL	SUBCONTRACTOR	N/A	Ton		\$0.00	
		MATERIALS				\$0.00	
		EQUIPMENT				\$0.00	
		LABOR				\$0.00	
				N/A	Ton	\$0.00	Total:
3	BITUMINOUS MATERIAL (CRS-2P)	SUBCONTRACTOR	N/A	Ton		\$0.00	
		MATERIALS				\$0.00	
		EQUIPMENT				\$0.00	
		LABOR				\$0.00	
				N/A	Ton	\$0.00	Total:
4	COVER MATERIAL (CM-11)	SUBCONTRACTOR	N/A	Ton		\$0.00	
		MATERIALS				\$0.00	
		EQUIPMENT				\$0.00	
		LABOR				\$0.00	
				N/A	Ton	\$0.00	Total:
5	CRACK SEALING	SUBCONTRACTOR	55.8	Ton	\$3,600.00	\$200,880.00	
		MATERIALS			\$0.00	\$0.00	
		EQUIPMENT			\$0.00	\$0.00	
		LABOR			\$50.00	\$2,790.00	
				55.8	Ton	\$3,650.00	Total:
6	HOT MIX ASPHALT - (LARGE THERMAL CRACK FILLER)	SUBCONTRACTOR	100	Ton	\$0.00	\$0.00	
		MATERIALS			\$81.00	\$8,100.00	
		EQUIPMENT			\$99.00	\$9,900.00	
		LABOR			\$70.00	\$7,000.00	
				100.0	Ton	\$250.00	Total:

BID NO.	BID ITEM	DESCRIPTION	FORECAST QUANTITIES	UNIT	UNIT COST	UNIT COST FORECAST	TOTAL COST FORECAST
7	LOWER MANHOLE FRAME & COVER, SEWER CLEANOUT, BLOWOFFS AND SURVEY HANDHOLES	SUBCONTRACTOR	59	EA	\$365.00	\$21,535.00	
		MATERIALS			\$0.00	\$0.00	
		EQUIPMENT			\$0.00	\$0.00	
		LABOR			\$34.00	\$2,006.00	
				59	EA	\$399.00	Total:
8	MODIFIED ASPHALTIC CONCRETE	SUBCONTRACTOR	10,519.20	Ton	\$0.00	\$0.00	
		MATERIALS			\$106.00	\$1,115,035.20	
		EQUIPMENT			\$13.90	\$146,216.88	
		LABOR			\$2.50	\$26,298.00	
				10,519.20	Ton	\$122.40	Total:
9	PAVEMENT MILLING	SUBCONTRACTOR	49161	SY	\$0.00	\$0.00	
		MATERIALS			\$0.04	\$1,966.44	
		EQUIPMENT			\$2.03	\$99,796.83	
		LABOR			\$0.25	\$12,290.25	
				49161	SY	\$2.32	Total:
10	REMOVE AND REPLACE CONCRETE APRON & VALLEY GUTTER	SUBCONTRACTOR	3,659.70	SF	\$8.00	\$29,277.60	
		MATERIALS			\$0.95	\$3,476.72	
		EQUIPMENT			\$4.60	\$16,834.62	
		LABOR			\$8.85	\$32,388.35	
				3,659.70	SF	\$22.40	Total:
11	REMOVE AND REPLACE CONCRETE DRIVEWAY (INCLUDING. 6"ABC)	SUBCONTRACTOR	6,232.70	SF	\$8.00	\$49,861.60	
		MATERIALS			\$1.20	\$7,479.24	
		EQUIPMENT			\$5.00	\$31,163.50	
		LABOR			\$9.95	\$62,015.36	
				6,232.70	SF	\$24.15	Total:
12	REMOVE AND REPLACE CURB AND GUTTER (ROLL-IN CLUDING 3" ABC)	SUBCONTRACTOR	305.00	LF	\$16.00	\$4,880.00	
		MATERIALS			\$0.40	\$122.00	
		EQUIPMENT			\$5.97	\$1,820.85	
		LABOR			\$10.00	\$3,050.00	
				305.00	LF	\$32.37	Total:

BID NO.	BID ITEM	DESCRIPTION	FORECAST QUANTITIES	UNIT	UNIT COST	UNIT COST FORECAST	TOTAL COST FORECAST
13	REMOVE AND REPLACE CURB AND GUTTER (VERTICAL- INCLUDING. 3"ABC)	SUBCONTRACTOR	1,821	LF	\$17.40	\$31,685.40	
		MATERIALS			\$1.00	\$1,821.00	
		EQUIPMENT			\$9.30	\$16,935.30	
		LABOR			\$11.00	\$20,031.00	
				1,821	LF	\$38.70	Total:
14	REMOVE AND REPLACE CURB IN APRON	SUBCONTRACTOR	827	LF	\$17.95	\$14,844.65	
		MATERIALS			\$0.00	\$0.00	
		EQUIPMENT			\$8.80	\$7,277.60	
		LABOR			\$10.10	\$8,352.70	
				827	LF	\$36.85	Total:
15	REMOVE AND REPLACE PAVEMENT (4" AC [C-3/4"]) PATCH	SUBCONTRACTOR	608	SY	\$0.00	\$0.00	
		MATERIALS			\$26.00	\$15,808.00	
		EQUIPMENT			\$32.00	\$19,456.00	
		LABOR			\$23.00	\$13,984.00	
				608	SY	\$81.00	Total:
16	REMOVE AND REPLACE SEWER MANHOLE	SUBCONTRACTOR	N/A	EA		\$0.00	
		MATERIALS				\$0.00	
		EQUIPMENT				\$0.00	
		LABOR				\$0.00	
				N/A	EA	\$0.00	Total:
17	REMOVE AND REPLACE SIDEWALK (INCLUDING. 3"ABC)	SUBCONTRACTOR	31,697.40	SF	\$4.20	\$133,129.08	
		MATERIALS			\$0.30	\$9,509.22	
		EQUIPMENT			\$1.95	\$61,809.93	
		LABOR			\$6.00	\$190,184.40	
				31,697.40	SF	\$12.45	Total:
18	REMOVE AND REPLACE SURVEY MONUMENTS	SUBCONTRACTOR	18.00	EA	\$170.00	\$3,060.00	
		MATERIALS			\$0.00	\$0.00	
		EQUIPMENT			\$0.00	\$0.00	
		LABOR			\$35.20	\$633.60	
				18.00	EA	\$205.20	Total:

BID NO.	BID ITEM	DESCRIPTION	FORECAST QUANTITIES	UNIT	UNIT COST	UNIT COST FORECAST	TOTAL COST FORECAST
19	REMOVE RAMP & INSTALL DETECTABLE WARNING (ADA Ramp MAG 235-3) INCLUDING 3" ABC	SUBCONTRACTOR	24.00	EA	\$1,023.40	\$24,561.60	
		MATERIALS			\$6.40	\$153.60	
		EQUIPMENT			\$349.00	\$8,376.00	
		LABOR			\$594.20	\$14,260.80	
				24.00	EA	\$1,973.00	Total:
20	REMOVE RAMP & INSTALL DETECTABLE WARNING (ADA Ramp MAG 235-4) INCLUDING 3" ABC	SUBCONTRACTOR	8.00	EA	\$1,030.40	\$8,243.20	
		MATERIALS			\$6.40	\$51.20	
		EQUIPMENT			\$349.00	\$2,792.00	
		LABOR			\$601.20	\$4,809.60	
				8.00	EA	\$1,987.00	Total:
21	REMOVE, REPLACE & ADJUST WATER VALVE BOX & COVER (C & E to furnish new hardware all valve boxes new to nut.)	SUBCONTRACTOR	54.00	EA	\$570.00	\$30,780.00	
		MATERIALS			\$160.00	\$8,640.00	
		EQUIPMENT			\$12.40	\$669.60	
		LABOR			\$17.60	\$950.40	
				54.00	EA	\$760.00	Total:
22	STREET REBUILDING & PATCHING CONTINGENCY	SUBCONTRACTOR	300.00	SY	\$0.00	\$0.00	
		MATERIALS			\$28.00	\$8,400.00	
		EQUIPMENT			\$22.00	\$6,600.00	
		LABOR			\$11.00	\$3,300.00	
				300.00	SY	\$61.00	Total:
23	STRIPING AND MARKING	SUBCONTRACTOR	1.0	LS	\$71,432.39	\$71,432.39	
		MATERIALS			\$0.00	\$0.00	
		EQUIPMENT			\$0.00	\$0.00	
		LABOR			\$0.00	\$0.00	
				1.0	LS	\$71,432.39	Total:
24	TACK COAT (SS-1H)	SUBCONTRACTOR	31.2	Ton	\$996.00	\$31,075.20	
		MATERIALS			\$200.00	\$6,240.00	
		EQUIPMENT				\$0.00	
		LABOR				\$0.00	
				31.2	Ton	\$1,196.00	Total:

BID NO.	BID ITEM	DESCRIPTION	FORECAST QUANTITIES	UNIT	UNIT COST	UNIT COST FORECAST	TOTAL COST FORECAST
25	TRAFFIC CONTROL	SUBCONTRACTOR	1.00	LS	\$256,357.90	\$256,357.90	
		MATERIALS			\$0.00	\$0.00	
		EQUIPMENT			\$0.00	\$0.00	
		LABOR			\$132,300.00	\$132,300.00	
				1.00	LS	\$388,657.90	Total:
26	LOWER WATER VALVE BOX	SUBCONTRACTOR	50.00	EA	\$365.00	\$18,250.00	
		MATERIALS			\$0.00	\$0.00	
		EQUIPMENT			\$0.00	\$0.00	
		LABOR			\$18.00	\$900.00	
				50.00	EA	\$383.00	Total:
27	ADJUST SEWER CLEANOUT, BLOWOFFS AND SURVEY HANDHOLES (CITY DTL. 9-03-062)	SUBCONTRACTOR	7	EA	\$510.00	\$3,570.00	
		MATERIALS			\$0.00	\$0.00	
		EQUIPMENT			\$0.00	\$0.00	
		LABOR			\$24.00	\$168.00	
				7	EA	\$534.00	Total:
28	CONSTRUCTION SURVEY	SUBCONTRACTOR	1	LS	\$9,800.00	\$9,800.00	
		MATERIALS			\$0.00	\$0.00	
		EQUIPMENT			\$0.00	\$0.00	
		LABOR			\$0.00	\$0.00	
				1	LS	\$9,800.00	Total:
29	REMOVE RAMP & RETROFIT DETECTABLE WARNING (ADA Ramp MAG 232) INCLUDING 3" ABC	SUBCONTRACTOR	17	EA	\$1,010.00	\$17,170.00	
		MATERIALS			\$0.00	\$0.00	
		EQUIPMENT			\$185.85	\$3,159.45	
		LABOR			\$314.15	\$5,340.55	
				17	EA	\$1,510.00	Total:
30	MILL AND FILL LARGE THERMAL CRACKS ON FOREST AVE. / CEDAR AVE.	SUBCONTRACTOR	5525	LF	\$0.00	\$0.00	
		MATERIALS			\$2.15	\$11,878.75	
		EQUIPMENT			\$6.02	\$33,260.50	
		LABOR			\$4.20	\$23,205.00	
				5525	LF	\$12.37	Total:

BID NO.	BID ITEM	DESCRIPTION	FORECAST QUANTITIES	UNIT	UNIT COST	UNIT COST FORECAST	TOTAL COST FORECAST
31	MILL AND FILL LARGE THERMAL CRACKS ON LAKE MARY ROAD	SUBCONTRACTOR	4080	LF	\$0.00	\$0.00	
		MATERIALS			\$2.15	\$8,772.00	
		EQUIPMENT			\$5.65	\$23,052.00	
		LABOR			\$4.20	\$17,136.00	
			4080	LF	\$12.00	Total:	\$48,960.00
32	FOG COAT LAKE MARY (WALAPAI TO CITY LIMITS)	SUBCONTRACTOR	N/A	Ton		\$0.00	
		MATERIALS				\$0.00	
		EQUIPMENT				\$0.00	
		LABOR				\$0.00	
			N/A	Ton	\$0.00	Total:	\$0.00
33	FOG COAT HIGH COUNTRY TRAIL (WILD WEST TO PULLIAM) & PULLIAM (HIGH COUNTRY TO J.W. POWELL)	SUBCONTRACTOR	N/A	Ton		\$0.00	
		MATERIALS				\$0.00	
		EQUIPMENT				\$0.00	
		LABOR				\$0.00	
			N/A	Ton	\$0.00	Total:	\$0.00
34	Mill 4 inch depth METZ WALK (5,880 S.F.) Install 2-3/4 inch C.O.F. 3/4 mix and 1-1/4 inch PMRAC	SUBCONTRACTOR	5880	SF	\$0.00	\$0.00	
		MATERIALS			\$2.33	\$13,700.40	
		EQUIPMENT			\$1.25	\$7,350.00	
		LABOR			\$0.63	\$3,704.40	
			5880	SF	\$4.21	Total:	\$24,754.80
35	RECONSTRUCT ROADWAY (THORPE RD. & BONITO ST)	SUBCONTRACTOR	400	SY	\$0.00	\$0.00	
		MATERIALS			\$27.30	\$10,920.00	
		EQUIPMENT			\$20.70	\$8,280.00	
		LABOR			\$14.00	\$5,600.00	
			400	SY	\$62.00	Total:	\$24,800.00
36	ROADWAY SHOULDERING (AZTEC)	SUBCONTRACTOR	7200	SF	\$0.00	\$0.00	
		MATERIALS			\$0.12	\$864.00	
		EQUIPMENT			\$0.50	\$3,600.00	
		LABOR			\$0.26	\$1,872.00	
			7200	SF	\$0.88	Total:	\$6,336.00

Total: \$3,346,218.86

**LIST OF PLANS
AND SPECIFICATIONS**

Flagstaff Street Maintenance Program - 2019
Shephard - Wesnitzer Inc. (928) 773-0354

Project No: 01-19001

<u>Drawing No.</u>	<u>Drawing Title</u>	<u>Release Date</u>
C1	Cover	04-2019
C2	Notes and Details	04-2019
C3	Key Map - Overlay	04-2019
C4	Improvement Schedule	04-2019

Maricopa Association of Governments Uniform Standard Specifications and Details for Public Works
Construction General Provisions

City of Flagstaff Amendments to Maricopa Association of Governments
General Provisions

Shephard - Wesnitzer Inc. Special Provisions

LIST
OF
CLARIFICATIONS
AND
ASSUMPTIONS

Clarifications and Assumptions

City of Flagstaff Street Maintenance Program – 2019

1. It is assumed that City of Flagstaff team members will assist the contractor in identifying and marking the stop and start areas for pavement milling and chip seal.
2. If cross-street approaches are to be overlaid, the Engineer shall outline the location and extent of work on cross-streets prior to beginning the work.
3. We realize that no potable water will be utilized on this project. We will need to obtain a permit (no fee) at the Wildcat Hill Waste Water Treatment Plant and will be responsible for complying with all permit requirements.
4. The January 2018 ADOT Index was used to construct the GMP Asphalt prices for this project. Adjustments may have to be made during construction with variances in the Index.
5. It is assumed that during the term of this contract; 2018 MAG and C.O.F. Specifications will govern.
6. The City of Flagstaff will furnish all necessary quality control testing for this project.
7. The City of Flagstaff will Trim and dispose of any trees that conflict with the construction methods.
8. GMP was built using engineers estimated quantities for striping. No revisions to striping was discussed. Any future revisions will be negotiated.
9. No obliteration of existing striping is included in this GMP.
10. No Thermo will be used on Chip Seal Streets.
 - a) All four-inch Double Solid Yellow will be "Paint"
 - b) All 18-inch Preformed Stop Bars will be "Thermo"
 - c) All four-inch Broken White will be "Paint"
 - d) All four-inch Solid and four-inch Broken Yellow will be "Paint"
 - e) Solid White Edge Line will be "Paint"
 - f) Six-inch Solid White Bike Lane Line "Paint"
 - g) Painted Bike Assembly will be "Thermo"
 - h) Preformed Turn Arrows will be "Thermo"
 - i) Solid White Lane Lines will be "Paint"
 - j) Six-inch Dashed Bike Lane will be "Paint"
 - k) Piano Key Crosswalks will be "Thermo"



C and E
PAVING & GRADING
L.L.C.



PROJECT
MASTER
SCHEDULE

