



**Project:** Coconino Estates Improvements Phase I CMAR - South Portion - GMP  
**Project #:** 03-18005  
**Dwgs:** PEAK Engineering - Final II, stamped 3/23/20  
**Submitted:** 4/22/2020

			South Portion - GMP			
EMC #	Keynote	DESCRIPTION	QTY	Unit	Unit Cost	Subtotal
<b>ROADWAY REMOVALS</b>						
1000	001	Sawcut, remove & dispose asphaltic concrete pavement	18,285	SY	\$ 6.70	\$ 122,509.50
1000A		Over Ex & Haul-Off New AC Subgrade	17,380	SY	\$ 10.50	\$ 182,490.00
1000B		Over Ex & Haul-Off New C&G, Sidewalk, Driveway Subgrade	7,672	SY	\$ 10.80	\$ 82,857.60
1010	002	Remove & dispose portland cement concrete	26,140	SF	\$ 2.85	\$ 74,499.00
1020	003	Remove & dispose concrete curb & gutter	8,075	LF	\$ 2.70	\$ 21,802.50
1030	004	Remove & dispose concrete valley gutter	3,265	SF	\$ 2.15	\$ 7,019.75
1040	020	Remove, salvage and store pavers	1,890	SF	\$ 14.00	\$ 26,460.00
1050	021	Remove & dispose wall	120	LF	\$ 33.00	\$ 3,960.00
1060	025	Remove & dispose post & footing; salvage sign	12	EA	\$ 80.00	\$ 960.00
1070	030	Remove & dispose mailbox and post	1	LS	\$ 990.00	\$ 990.00
1080	070	Remove & Dispose Street Light	11	EA	\$ 750.00	\$ 8,250.00
1100	081	Remove tree and stump >12" dia.	5	EA	\$ 2,065.00	\$ 10,325.00
<b>Subtotal:</b>						<b>\$ 542,123.35</b>
<b>RELOCATIONS &amp; ADJUSTMENTS</b>						
1200	101	Reinstall sign with new post and footing	11	EA	\$ 265.00	\$ 2,915.00
1210	103	Relocate library box and install new foundation	1	EA	\$ 850.00	\$ 850.00
1213	105	Relocate sign onto light pole	5	EA	\$ 75.00	\$ 375.00
1215	120	Relocate mailbox	2	EA	\$ 265.00	\$ 530.00
1220	130	Adjust valve box & cover	34	EA	\$ 700.00	\$ 23,800.00
1230	140	Adjust manhole frame & cover	24	EA	\$ 800.00	\$ 19,200.00
1240	170	Relocate fence	70	LF	\$ 125.00	\$ 8,750.00
<b>Subtotal:</b>						<b>\$ 56,420.00</b>
<b>ROADWAY CONSTRUCTION</b>						
1500	201	4.5" AC / 12" ABC pavement / Geogrid / Filter fabric	7,181	SY	\$ 63.40	\$ 455,275.40
1505		4" AC / 3" ABC	0	SY	\$ 43.50	\$ -
1510	202	6" AC / 12" ABC pavement / Geogrid / Filter fabric	8,656	SY	\$ 68.20	\$ 590,339.20
1520	203	Type A MAG vertical curb & gutter	8,005	LF	\$ 26.50	\$ 212,132.50
1530	204	Type D ADOT Curb & Gutter	130	LF	\$ 38.70	\$ 5,031.00
1540	205	Type A MAG Single Curb	415	LF	\$ 26.50	\$ 10,997.50
1550	206	Type F MAG Mountable Curb & Gutter	15	LF	\$ 29.80	\$ 447.00
1560	207	Type C MAG Roll Curb & Gutter	40	LF	\$ 29.80	\$ 1,192.00
1570	209	5' Wide T-Top Trench	140	LF	\$ 82.65	\$ 11,571.00
1580	210	4" PCC / 3" ABC sidewalk	27,165	SF	\$ 8.40	\$ 228,186.00
1590	211	Curb Ramp , 15' R or 20' R	18	EA	\$ 400.00	\$ 7,200.00
1600	212	ADOT Sidewalk Ramp	3	EA	\$ 2,455.00	\$ 7,365.00
1610	213	MAG Parallel Curb Ramp -238-2	2	EA	\$ 730.00	\$ 1,460.00
1620	214	MAG Sidewalk Ramp 238-1	1	EA	\$ 1,310.00	\$ 1,310.00
1630	220	MAG Curb Transition	15	NPI	\$ -	\$ -
1640	221	ADOT Curb Transistion	4	NPI	\$ -	\$ -
1650	222	Curb Termination MAG 222	18	NPI	\$ -	\$ -
1670	230	6" PCC / 3" ABC Residential Driveway	14,165	SF	\$ 11.25	\$ 159,356.25
1680	240	6" PCC / 3" ABC Driveway Match-up	13,940	SF	\$ 13.35	\$ 186,099.00
1690	241	3" AC/4" ABC Driveway Match	48	SY	\$ 50.90	\$ 2,443.20
1700	242	Paver Driveway/Walkway Match-up	1,467	SF	\$ 15.00	\$ 22,005.00
1730	250	Valley Gutter	6,565	SF	\$ 13.30	\$ 87,314.50
1740	251	Concrete spillway	50	SF	\$ 15.00	\$ 750.00
1750	252	2' Wide Scupper MAG 203	6	EA	\$ 1,615.00	\$ 9,690.00
1760	253	Curb Opening	1	NPI	\$ -	\$ -
1770	254	4" Drain Pipe	5	LF	\$ 12.00	\$ 60.00
1790	280	Survey monument, Type A	1	LS	\$ 10,170.00	\$ 10,170.00
1800	290	2.5" Schedule 40 PVC Conduit	2,640	LF	\$ 16.00	\$ 42,240.00
1810	291	No. 7 Electrical Pull Box	11	EA	\$ 610.00	\$ 6,710.00
1820	292	New light pole, mast arm, & luminaire	11	EA	\$ 7,500.00	\$ 82,500.00
1825	293	Communication and Electrical conduit bank	125	LF	\$ 16.00	\$ 2,000.00
<b>Subtotal:</b>						<b>\$ 2,143,844.55</b>
<b>WATER REMOVALS</b>						
2010	031	Remove & dispose AC waterline (includes temp water service & temp MJ caps)	1	LS	\$ 7,000.00	\$ 7,000.00
2020	032	Remove & salvage fire hydrant. Remove & dispose valve can. Abandon valve & assembly.	7	EA	\$ 750.00	\$ 5,250.00
2030	033	Remove & dispose valve box, cover, & collar. Abandon valve.	17	EA	\$ 175.00	\$ 2,975.00
2040	034	Remove & dispose water valve	4	EA	\$ 175.00	\$ 700.00
2050	035	Remove & dispose water service	89	EA	\$ 470.00	\$ 41,830.00
2060	037	Plug & abandon waterline	14	EA	\$ 235.00	\$ 3,290.00
<b>Subtotal:</b>						<b>\$ 61,045.00</b>



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<b>WATER CONSTRUCTION</b>						
2100	301	8" Class 305 C-900 PVC waterline	4,430	LF	\$ 76.40	\$ 338,452.00
2110	310	8" gate valve , box, cover, and assembly	24	EA	\$ 1,130.00	\$ 27,120.00
2120	320	Fire hydrant assembly	9	EA	\$ 5,500.00	\$ 49,500.00
2130	330	3/4" copper water service, box & connection	86	EA	\$ 1,630.00	\$ 140,180.00
2140	331	1" copper water service with 2 meter manifold	2	EA	\$ 2,385.00	\$ 4,770.00
2150	340	Connect to 8" PVC, AC or CI waterline	9	NPI	\$ -	\$ -
2160	341	Connect to 6" PVC, AC or CI waterline	2	NPI	\$ -	\$ -
2170	342	Connect to 4" CI waterline	1	NPI	\$ -	\$ -
2180	352	Extra Protection	9	EA	\$ 950.00	\$ 8,550.00
2190	360	1" Combination Air Release Valve	4	EA	\$ 1,875.00	\$ 7,500.00
<b>Subtotal:</b>						<b>\$ 576,072.00</b>
<b>SEWER REMOVALS</b>						
3000	040	Remove & dispose sewer line	2,765	LF	\$ 14.00	\$ 38,710.00
3010	041	Remove & dispose manhole	17	EA	\$ 895.00	\$ 15,215.00
3020	042	Remove & dispose top of manhole, slurry base in place	2	EA	\$ 1,295.00	\$ 2,590.00
3030	043	Remove & dispose sewer service	94	EA	\$ 905.00	\$ 85,070.00
3040	045	Cut, plug, & abandon sewer line	1	LS	\$ 2,100.00	\$ 2,100.00
<b>Subtotal:</b>						<b>\$ 143,685.00</b>
<b>SEWER CONSTRUCTION</b>						
3100	401	60" manhole	5	EA	\$ 6,160.00	\$ 30,800.00
3110	402	60" manhole, drop connection	3	EA	\$ 9,450.00	\$ 28,350.00
3120	403	60" manhole, drop, watertight	1	EA	\$ 9,625.00	\$ 9,625.00
3130	404	60" manhole, watertight	1	EA	\$ 6,335.00	\$ 6,335.00
3140	405	48" manhole	10	EA	\$ 5,800.00	\$ 58,000.00
3150	406	48" manhole, watertight	3	EA	\$ 5,985.00	\$ 17,955.00
3160	410	8" dia. SDR-35 PVC sanitary sewer main	3,180	LF	\$ 76.50	\$ 243,270.00
3170	411	8" dia. Class 350 ductile iron sanitary sewer main	290	LF	\$ 100.50	\$ 29,145.00
3180	420	4" dia. SDR-35 PVC sewer service & cleanout	13	EA	\$ 1,740.00	\$ 22,620.00
3190	421	4" dia. SDR-35 PVC drop sewer service & cleanout	59	EA	\$ 1,910.00	\$ 112,690.00
3200	423	4" dia. SDR-35 PVC drop sewer service, cleanout & new wye	23	EA	\$ 1,910.00	\$ 43,930.00
3210	430	Connect to existing sewer main	6	NPI	\$ -	\$ -
3220	440	Re-shade and backfill existing sewer line	740	LF	\$ 30.00	\$ 22,200.00
3230	450	Extra protection	9	NPI	\$ -	\$ -
3240	470	Tracer wire connection	11	NPI	\$ -	\$ -
<b>Subtotal:</b>						<b>\$ 624,920.00</b>
<b>STORM DRAIN REMOVALS</b>						
4000	050	Remove & dispose single catch basin	2	EA	\$ 950.00	\$ 1,900.00
4010	051	Remove & dispose double catch basin	2	EA	\$ 1,025.00	\$ 2,050.00
4020	052	Remove & dispose CMP storm drain	30	LF	\$ 35.00	\$ 1,050.00
4030	053	Abandon storm drain	1	LS	\$ 1,025.00	\$ 1,025.00
4040	054	Demo and remove existing CMU junction structure	1	EA	\$ 2,015.00	\$ 2,015.00
4050	055	Remove & dispose 62" x 45" CMP storm drain	39	LF	\$ 105.00	\$ 4,095.00
4060	056	Remove & plug existing stormdrain lateral	1	EA	\$ 175.00	\$ 175.00
<b>Subtotal:</b>						<b>\$ 12,310.00</b>
<b>STORM DRAIN CONSTRUCTION</b>						
4100	500	18" SRP Storm Drain	33	LF	\$ 86.80	\$ 2,864.40
4110	501	24" SRP Storm Drain	52	LF	\$ 96.00	\$ 4,992.00
4120	502	30" SRP Storm Drain	65	LF	\$ 108.00	\$ 7,020.00
4130	503	42" x 29" arch pipe storm drain	216	LF	\$ 165.00	\$ 35,640.00
4140	504	Double MAG Type 'E' Catch Basin	2	EA	\$ 6,730.00	\$ 13,460.00
4150	505	MAG Type 'D' Catch Basin. 3' wing	1	EA	\$ 6,230.00	\$ 6,230.00
4160	506	MAG Type 'D' Catch Basin. 6' wing	1	EA	\$ 6,760.00	\$ 6,760.00
4170	507	MAG Type 'D' Catch Basin. 17' wing	1	EA	\$ 10,500.00	\$ 10,500.00
4180	508	MAG Type 'D' Catch Basin. 17' wing with pipe connection	1	EA	\$ 10,980.00	\$ 10,980.00
4190	509	Flat Top 60" SD MH	1	EA	\$ 6,185.00	\$ 6,185.00
4200	510	Cap on proposed Storm Drain stub out	1	EA	\$ 330.00	\$ 330.00
4210	511	Connect to existing 84" Stormdrain pipe	1	EA	\$ 2,380.00	\$ 2,380.00
4220	512	84" x 84" ID precast concrete junction box	2	EA	\$ 20,980.00	\$ 41,960.00
4230	513	60" x 46" arch pipe stormdrain	39	LF	\$ 545.00	\$ 21,255.00
4240	514	24" x 18" arch pipe stormdrain	26	LF	\$ 150.00	\$ 3,900.00
<b>Subtotal:</b>						<b>\$ 174,456.40</b>
<b>STRIPING &amp; SIGNAGE</b>						
5000	601	Stop Bar	12	EA	\$ 125.00	\$ 1,500.00
5010	602	10' wide crosswalk	7	EA	\$ 125.00	\$ 875.00
5020	603	6" White Lane Stripe	855	LF	\$ 1.50	\$ 1,282.50
5030	605	4" double yellow centerline stripe	910	LF	\$ 1.70	\$ 1,547.00



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EMC #	Keynote	DESCRIPTION	QTY	Unit	Unit Cost	Subtotal
5040	606	Right turn arrow	2	EA	\$ 85.00	\$ 170.00
5050	630	Existing sign & post - per table SS1.1	0	NPI	\$ -	\$ -
5060	631	New Sign & Post	3	EA	\$ 375.00	\$ 1,125.00
5070	632	New Sign mounted on light pole	1	EA	\$ 250.00	\$ 250.00
<b>Subtotal:</b>						<b>\$ 6,749.50</b>
<b>MISCELLANEOUS</b>						
7000		Mobilization & Administration (Includes Survey & Staking)	1	LS	\$ 96,750.00	\$ 96,750.00
7010		SWPPP Installation & Maintenance	1	LS	\$ 20,000.00	\$ 20,000.00
7020		Traffic Control & Maintenance	1	LS	\$ 65,000.00	\$ 65,000.00
7030		As-Builts\Record Drawings	1	LS	\$ 8,500.00	\$ 8,500.00
7040		Public Relations	1	LS	\$ 70,367.00	\$ 70,367.00
7050		Trench Rock Excavation	625	CY	\$ 125.00	\$ 78,125.00
7060		Unsuitable Material for Utility Trenches	2,580	CY	\$ 45.00	\$ 116,100.00
7070		Subgrade Stabilization (25% of pavement area)	4,500	SY	\$ 37.00	\$ 166,500.00
<b>Subtotal:</b>						<b>\$ 621,342.00</b>
<b>Cost of Work Subtotal:</b>						<b>\$ 4,962,967.80</b>
<b>GENERAL CONDITIONS</b>						
9000	PE	Project Executive	1	MO	\$ 10,000.00	\$ 10,000.00
9010	PM	Project Manager	10	MO	\$ 9,500.00	\$ 95,000.00
9020	PS	Project Superintendent	18	MO	\$ 7,500.00	\$ 135,000.00
9030	8TPU	Super Pick-up Truck	18	MO	\$ 550.00	\$ 9,900.00
9040	PA	Project Admin	4	MO	\$ 2,000.00	\$ 8,000.00
9050	Lab	Clean-up & Make Safe Labor	16	MO	\$ 3,100.00	\$ 49,600.00
9060	2C1001	Construction Water	3,840	MGAL	\$ 4.00	\$ 15,360.00
9070	8TWT 4K	4,000 ga Water Truck	2,880	HR	\$ 15.00	\$ 43,200.00
9080	T03	Driver - Water Truck	1,440	MH	\$ 27.92	\$ 40,204.80
9090	2CONEX	Con Ex Storage & Office Trailer	18	MO	\$ 675.00	\$ 12,150.00
9100	9Y0021	Portable Toilets - 2 @ 18 MO	36	MO	\$ 195.00	\$ 7,020.00
9110	8BH420	CAT 420 Backhoe	1,600	HR	\$ 25.00	\$ 40,000.00
9120	3*LH	PPE Safety Supplies	50,113	HR	\$ 0.10	\$ 5,011.30
9130	3*LH	Punchlist & Warranty	50,113	HR	\$ 0.20	\$ 10,022.60
<b>Subtotal:</b>						<b>\$ 480,468.70</b>

COCONINO ESTATES IMPROVEMENTS PH I CMAR GMP SUMMARY			
ITEM	DESCRIPTION		TOTAL
1	COST OF WORK		\$ 4,962,968
2	GENERAL CONDITIONS (GC'S) (Percent of Cost of the Work)	9.68%	\$ 480,469
3	<b>SUBTOTAL #1 - Cost of the Work + GC's</b>		<b>\$ 5,443,437</b>
4	CONSTRUCTION FEE (Fee) (Percentage of Subtotal #1)	8.00%	\$ 435,475
5	<b>SUBTOTAL #2 - Cost of the Work + GC's + Fee</b>		<b>\$ 5,878,911</b>
6	PERFORMANCE & PAYMENT BOND (Percentage of Subtotal #2)	1.20%	\$ 70,547
7	<b>SUBTOTAL #3 - Cost of the Work + GC's + Fee + Bonds</b>		<b>\$ 5,949,458</b>
8	INSURANCE (Percentage of Subtotal #3)	0.95%	\$ 56,520
9	<b>SUBTOTAL #4 - Cost of the Work + GC's + Fee + Bonds + Insurance</b>		<b>\$ 6,005,978</b>
10	SALES TAX (Percentage of Subtotal #4, Percentage = 65% of City of Flagstaff current tax rate)	5.968%	\$ 358,416
11	CMAR CONTINGENCY (Percentage of Cost of the Work)	1.51%	\$ 75,000
12	<b>GMP South Portion</b>		<b>\$ 6,439,394</b>
13	OWNERS CONTINGENCY (Percentage of Cost of the Work)	3.00%	\$ 148,889
14	<b>CONTRACT PRICE</b>		<b>\$ 6,588,283</b>