

UC Riverside Multidisciplinary Research Building 1				2020 ASC COMPETITION						
ANSWER										
				PART A AND B						
						LABOR		MATERIAL		EQUIPMENT/OTHER
PARAMETER / ITEM OF WORK	QUANTITY	UNIT		\$/UNIT	SUBTOTAL	\$/UNIT	SUBTOTAL	\$/UNIT	SUBTOTAL	TOTAL
UCR MRB 1										
Continuous Footings and Grade Beams										
Cast In Place Concrete										
Concrete Material	191	CUYD		\$ -	\$ -	\$ 120.00	\$ 25,186	\$ -	\$ -	\$ 25,186
Placement of footings concrete, pumped, vibration, excludes concrete.	191	CUYD		\$ 63.00	\$ 12,020	\$ -	\$ -	\$ -	\$ -	\$ 12,020
Finish Concrete Top of Footing	2,322	SQFT		\$ 0.45	\$ 1,045	\$ -	\$ -	\$ -	\$ -	\$ 1,045
Spread Footings										
Cast In Place Concrete										
Concrete Material	192	CUYD		\$ -	\$ -	\$ 120.00	\$ 25,331	\$ -	\$ -	\$ 25,331
Placement of footings concrete, pumped, vibration, excludes concrete.	192	CUYD		\$ 68.25	\$ 13,097	\$ -	\$ -	\$ -	\$ -	\$ 13,097
Finish Concrete Top of Footing	2,374	SQFT		\$ 0.45	\$ 1,068	\$ -	\$ -	\$ -	\$ -	\$ 1,068
Pile Caps										
Cast In Place Concrete										
Concrete Material	1,442	CUYD		\$ -	\$ -	\$ 150.00	\$ 237,996	\$ -		\$ 237,996
Placement of concrete, pumped, vibration, excludes concrete.	1,442	CUYD		\$ 69.00	\$ 99,526	\$ -	\$ -	\$ -	\$ -	\$ 99,526
Finish Concrete Top of Pile Cap	7,426	SQFT		\$ 0.45	\$ 3,341	\$ -	\$ -	\$ -	\$ -	\$ 3,341
Slab on Grade										
Formwork										
SOG Forms	2	MO		\$ -	\$ -	\$ 4,050.00	\$ 8,910	\$ -	\$ -	\$ 8,910
SOG Forms	36,136	SQFT		\$ 4.22	\$ 152,350	\$ -	\$ -	\$ -	\$ -	\$ 152,350
Cast In Place Concrete										
Concrete Material	687	CUYD		\$ -	\$ -	\$ 150.00	\$ 113,342	\$ -		\$ 113,342
Placement of concrete, pumped, vibration, excludes concrete.	687	CUYD		\$ 90.00	\$ 61,823	\$ -	\$ -	\$ 132.00	\$ 90,674	\$ 152,497
Finish SOG	36,136	SQFT		\$ 0.60	\$ 21,682	\$ -	\$ -	\$ -	\$ -	\$ 21,682
Protect and Cure	36,136	SQFT		\$ 0.14	\$ 5,059	\$ 0.05	\$ 1,987	\$ -	\$ -	\$ 7,047
Concrete Sealant	36,136	SQFT		\$ 1.10	\$ 39,750	\$ 0.12	\$ 4,770	\$ -	\$ -	\$ 44,520
Concrete Columns and Shear Walls										
Formwork										
Concrete Column and Shear Wall Forms	3	MO		\$ -	\$ -	\$ 106,000.00	\$ 349,800	\$ -	\$ -	\$ 349,800
Concrete Column and Shear Wall Forms	111,601	SQFT		\$ 7.62	\$ 849,953	\$ -	\$ -	\$ -	\$ -	\$ 849,953
Concrete Column and Shear Wall Forms	2,669	CUYD		\$ -	\$ -	\$ -	\$ -	\$ 40.00	\$ 106,741	\$ 106,741
Cast In Place Concrete										
Concrete Material	2,669	CUYD		\$ -	\$ -	\$ 120.00	\$ 352,246	\$ -	\$ -	\$ 352,246
Placement of concrete, pumped, vibration, excludes concrete.	2,669	CUYD		\$ 61.50	\$ 164,115	\$ -	\$ -	\$ 127.10	\$ 339,170	\$ 503,285

UC Riverside Multidisciplinary Research Building 1			2020 ASC COMPETITION							
ANSWER										
	PART A AND B									
				LABOR		MATERIAL		EQUIPMENT/OTHER		CUMULATIVE
PARAMETER / ITEM OF WORK	QUANTITY	UNIT		\$/UNIT	SUBTOTAL	\$/UNIT	SUBTOTAL	\$/UNIT	SUBTOTAL	TOTAL
Slab on Deck										
Formwork										
SOD and Concrete Beam Forms	6	MO		\$ -	\$ -	\$ 41,166.67	\$ 271,700	\$ -	\$ -	\$ 271,700
SOD and Concrete Beam Forms	6,741	CUYD		\$ 10.47	\$ 70,592	\$ -	\$ -	\$ 40.00	\$ 269,640	\$ 340,232
Cast In Place Concrete										
Concrete Material	6,741	CUYD		\$ -	\$ -	\$ 150.00	\$ 1,112,265	\$ -	\$ -	\$ 1,112,265
Placement of concrete, pumped, vibration, excludes concrete.	6,741	CUYD		\$ 33.00	\$ 222,453	\$ -	\$ -	\$ 74.80	\$ 504,227	\$ 726,680
Finish SOD	176,826	SQFT		\$ 0.60	\$ 106,096	\$ -	\$ -	\$ -	\$ -	\$ 106,096
Protect and Cure	176,826	SQFT		\$ 0.14	\$ 24,756	\$ 0.05	\$ 9,725	\$ -	\$ -	\$ 34,481
Concrete Sealant	176,826	SQFT		\$ 1.10	\$ 194,509	\$ 0.12	\$ 23,341	\$ -	\$ -	\$ 217,850
Concrete Beams										
Cast In Place Concrete										
Concrete Material	340	CUYD		\$ -	\$ -	\$ 150.00	\$ 56,100	\$ -	\$ -	\$ 56,100
Placement of concrete, pumped, vibration, excludes concrete.	340	CUYD		\$ 33.00	\$ 11,220	\$ -	\$ -	\$ 74.80	\$ 25,432	\$ 36,652
Protect and Cure	4,069	SQFT		\$ 0.14	\$ 570	\$ 0.05	\$ 224	\$ -	\$ -	\$ 793
Concrete Sealant	4,069	SQFT		\$ 1.10	\$ 4,476	\$ 0.12	\$ 537	\$ -	\$ -	\$ 5,013
Stairs										
Cast In Place Concrete										
Concrete Material	226	CUYD		\$ -	\$ -	\$ 150.00	\$ 37,290	\$ -	\$ -	\$ 37,290
Placement of concrete, pumped, vibration, excludes concrete.	226	CUYD		\$ 61.50	\$ 13,899	\$ -	\$ -	\$ 127.10	\$ 28,725	\$ 42,624
Finish Concrete Stairs	447	SQFT		\$ 0.45	\$ 201	\$ -	\$ -	\$ -	\$ -	\$ 201
Protect and Cure	447	SQFT		\$ 0.14	\$ 63	\$ 0.05	\$ 25	\$ -	\$ -	\$ 87
Concrete Sealant	447	SQFT		\$ 1.10	\$ 492	\$ 0.12	\$ 59	\$ -	\$ -	\$ 551
GENERAL CONDITIONS										
Office Trailer	-	MO			\$ -	\$ 1,500.00	\$ -		\$ -	\$ -
Tool Container (Conex)	10	MO			\$ -	\$ 200.00	\$ 2,200		\$ -	\$ 2,200
Misc. Small Tools and Equipment	10	MO			\$ -	\$ 1,000.00	\$ 11,000		\$ -	\$ 11,000
Concrete Equipment - Forklift	10	MO			\$ -		\$ -	\$ 3,500.00	\$ 35,000	\$ 35,000
Concrete Equipment - Compressor	10	MO			\$ -		\$ -	\$ 450.00	\$ 4,500	\$ 4,500
One (1) Area Superintendent w/ All Costs	10	MO		\$ 18,000.00	\$ 180,000		\$ -		\$ -	\$ 180,000
Two (2) Field Engineers w/ All Costs	10	MO		\$ 10,000.00	\$ 100,000		\$ -		\$ -	\$ 100,000
Field Engineering Equipment	10	MO			\$ -	\$ 1,500.00	\$ 16,500		\$ -	\$ 16,500
Water, Ice, & Cups	10	MO			\$ -	\$ 100.00	\$ 1,100		\$ -	\$ 1,100
Health Insurance for Salary Staff	10	MO			\$ -		\$ -		\$ -	\$ -
Radios	6	EA			\$ -	\$ 650.00	\$ 4,290		\$ -	\$ 4,290

UC Riverside Multidisciplinary Research Building 1			2020 ASC COMPETITION									
ANSWER												
			PART A AND B									
						LABOR		MATERIAL		EQUIPMENT/OTHER		CUMULATIVE
			PARAMETER / ITEM OF WORK	QUANTITY	UNIT		\$/UNIT	SUBTOTAL	\$/UNIT	SUBTOTAL	\$/UNIT	SUBTOTAL
Light Towers	10	MO			\$ -	\$ 500.00	\$ 5,500		\$ -	\$ 5,500		
Generator	10	MO			\$ -	\$ 350.00	\$ 3,850		\$ -	\$ 3,850		
Field Truck	10	MO			\$ -		\$ -	\$ 750.00	\$ 7,500	\$ 7,500		
Vehicle Maintenance	10	MO			\$ -	\$ 150.00	\$ 1,650		\$ -	\$ 1,650		
Vehicle Fuel, Oil, Gas	10	MO			\$ -	\$ 300.00	\$ 3,300		\$ -	\$ 3,300		
Equipment Maintenance	10	MO			\$ -	\$ 250.00	\$ 2,750		\$ -	\$ 2,750		
Equipment Fuel, Oil, Gas	10	MO			\$ -	\$ 1,000.00	\$ 11,000		\$ -	\$ 11,000		
Cell Phones	10	MO			\$ -	\$ 225.00	\$ 2,475		\$ -	\$ 2,475		
TOTAL GENERAL CONDITIONS					\$ 280,000		\$ 65,615		\$ 47,000	\$ 392,615		
TOTAL CONCRETE COSTS					\$ 2,074,154		\$ 2,630,834		\$ 1,364,608	\$ 6,069,596		
TOTAL GENERAL CONDITIONS					\$ 280,000		\$ 65,615		\$ 47,000	\$ 392,615		
TAX	8.75%						\$ 235,939		\$ 123,516	\$ 359,455		
SUBTOTAL					\$ 2,354,154		\$ 2,932,388		\$ 1,535,124	\$ 6,821,666		
CONTRACTOR'S FEE	12%				\$ 282,498		\$ 351,887		\$ 184,215	\$ 818,600		
GRAND TOTAL CONCRETE WORK (Rounded)					\$ 2,637,000		\$ 3,284,000		\$ 1,719,000	\$ 7,640,000		