

MATERIAL COST ESTIMATE

3150 W. Buckeye Rd HAWK

MATERIAL DESCRIPTION	QUANTITY	PRICE EA.	TOTAL
2017 STANDARDS POLES - Existing Inventory			
PB POLE 48"	0	\$ 148.00	
A-POLE - 15ft/20FT	0	\$ 311.84	
LM-POLE- 5ft riser	0	\$ 353.13	
LM-POLE W/-20ft riser	0	\$ 1,359.00	
SM-POLE-15ft thru 20ft MAST ARM	0	\$ 1,514.90	
SM-POLE - 25ft thru 35ft MAST ARM	0	\$ 2,904.71	
SR-POLE-15ft thru 20ft MAST ARM	0	\$ 3,182.71	
SR-POLE - 25ft thru 35ft MAST ARM	0	\$ 3,486.00	
SR-POLE- 40ft thru 50ft MAST ARM	0	\$ 4,401.00	
SQ POLE- 40ft thru 60ft-MAST ARM	0	\$ 4,956.00	
G-POLE -	0	\$ 1,511.00	
2017 STANDARDS POLES - New Inventory			
Hand Hole Covers = \$18.00 for all pole types, is included in Calc for TOTAL column.			
PB POLE 48"	0	\$ 264.00	
A-POLE - 15'	0	\$ 505.00	
A-POLE - 20'	0	\$ 609.00	
LM POLE	0	\$ 2,086.00	
SM POLE	0	\$ 3,774.00	
SR POLE	0	\$ 4,943.00	
SQ POLE	0	\$ 5,302.00	
CAGES & BOLTS			
PB CAGE	0	\$ 214.00	
A - POLE 15' & 20' CAGE	0	\$ 586.00	
LM & G POLE CAGE	0	\$ 707.00	
SM - POLE CAGE	0	\$ 1,347.00	
SR - POLE CAGE	0	\$ 1,982.00	
SQ - POLE CAGE	0	\$ 2,023.00	
2017 STANDARDS MAST ARMS & EXTENSIONS - New Price			
SM - SR 14" Mast Arm Extension	0	\$ 91.00	
SM - SR 5' Mast Arm Extension	0	\$ 238.00	
SM - SR 10' Mast Arm Extension	0	\$ 355.00	
SM - SR 15' Mast Arm Extension	0	\$ 1,972.00	
SM - SR 25' Primary Mast Arm	0	\$ 2,445.00	
SR - 40' Primary Mast Arm	0	\$ 4,481.00	
SQ - 15' Mast Arm Extension	0	\$ 613.00	
SQ - 20' Mast Arm Extension	0	\$ 973.00	
SQ - 40' Primary Mast Arm	0	\$ 6,183.00	
2017 STANDARDS RISERS for LM, SM, SR, SQ			
1' Riser	0	\$ 307.00	
5' Riser	0	\$ 402.00	
10' Riser	0	\$ 521.00	
20' Riser	0	\$ 964.00	
2020 STANDARDS POLES - BP, AP-15, AP-20, LP, GP, P45, DP45, P70, DP70			
Hand Hole Covers = \$20.00 EA for all Pole types, is included in Calc for Total Column			
BP POLE- 48"	0	\$ 650.00	
AP POLE- 15FT	0	\$ 1,475.00	
AP POLE- 20 FT	1	\$ 1,761.00	\$ 1,781.00
LP POLE-	0	\$ 2,548.00	
GP POLE-	0	\$ 2,584.00	
P45 POLE SHAFT	0	\$ 9,172.00	
DP45 POLE SHAFT	0	\$ 12,360.00	
P70 POLE SHAFT	1	\$ 13,116.00	\$ 13,136.00

DP70 POLE SHAFT	0	\$ 16,278.00	
CAGES & BOLTS			
BP POLE- CAGE	0	\$ 616.00	
AP POLE CAGE	1	\$ 879.00	\$ 889.00
LP POLE CAGE	0	\$ 1,572.00	
GP POLE CAGE	0	\$ 905.00	
P45 POLE CAGE	0	\$ 2,838.00	
P70 POLE CAGE	1	\$ 4,954.00	\$ 4,964.00
MAST ARMS & EXTENSIONS			
LUMINAIRE 8' MAST ARM	1	\$ 270.00	\$ 270.00
P45 & DP45 15' Primary Signal Mast Arm	0	\$ 4,968.00	
P45 & DP45 30' Primary Signal Mast Arm	0	\$ 6,638.00	
P70 & DP70 15' Primary Signal Mast Arm	0	\$ 4,875.00	
P70 & DP70 30' Primary Signal Mast Arm	0	\$ 7,740.00	
P70 & DP70 40' Primary Signal Mast Arm	0	\$ 11,165.00	
P70 & DP70 55' Primary Signal Mast Arm	1	\$ 16,228.00	\$ 16,228.00
E1 - 1' Mast Arm Extension for P45 & P70	0	\$ 459.00	
E5 - 5' Mast Arm Extension for P45 & P70	1	\$ 695.00	\$ 695.00
E10 - 10' Mast Arm Extension for P45 & P70	0	\$ 900.00	
E15 - 15' Mast Arm Extension for P45 & P70	0	\$ 1,139.00	
Pole Exstentions/ Risers for AP, LP, P45, DP45, P70. DP70			
1' - RISER 1-SHOE	0	\$ 438.00	
1' - RISER 2-SHOE @ 90 DEG	0	\$ 525.00	
1' - RISER 2-SHOE @ 180 DEG	0	\$ 525.00	
5' - RISER 1-SHOE	0	\$ 695.00	
5' - RISER 2-SHOE @ 90 DEG	0	\$ 764.00	
5' - RISER 2-SHOE @ 180 DEG	0	\$ 764.00	
10' - RISER 1-SHOE	0	\$ 970.00	
10' - RISER 2-SHOE @ 90 DEG	0	\$ 1,041.00	
10' - RISER 2-SHOE @ 180 DEG	0	\$ 1,041.00	
20' - RISER 1- SHOE	1	\$ 1,511.00	\$ 1,511.00
20' - RISER 2- SHOE @ 90 DEG	0	\$ 1,557.00	
20' - RISER 2- SHOE @ 180 DEG	0	\$ 1,557.00	
MAST ARM DAMPER	1	\$ 1,881.00	\$ 1,881.00
RAIN CAP FOR MAST ARM TENON	0	\$ 84.00	
SIGNAL HEADS			
12" 3 SECTION HEAD W/ PLUMBIZER (type F1)	0	\$ 444.00	
12" 3 SECTION HEAD (type F) B-MOUNT	0	\$ 346.00	
12" 3 SECTION HEAD (type T) HAWK B-MOUNT	2	\$ 465.00	\$ 930.00
12" 3 SECTION HEAD (type T1) HAWK HEAD W/ PLUMBIZER	6	\$ 562.00	\$ 3,372.00
12" 5 SECTION HEAD (type Q)	0	\$ 589.00	
12' DOGHOUSE (type Q2) W/ PLUMBIZER	0	\$ 813.00	
12" 3 SECTION ARROW HEAD (type R)	0	\$ 357.00	
12" 3 SECTION ARROW HEAD W/ PLUMBIZER (type R1)	0	\$ 455.00	
12" 4 SECTION HEAD GREEN ARROW (type G)	0	\$ 385.05	
12" 4 SECTION HEAD GREEN ARROW W/ PLUMBIZER (type G1)	0	\$ 558.05	
12" 4 SECTION HEAD FLASHING YEL ARROW (type FA)	0	\$ 461.00	
12" 4 SECTION HEAD FLASHING YEL W/PLUMBIZER (type FA1)	0	\$ 557.00	
PEDESTRIAN MODULE & B-MOUNT MOUNTING ARMS (PAIR)	2	\$ 68.00	\$ 136.00
PEDESTRIAN HEAD	2	\$ 236.00	\$ 472.00
ASTRO BRACKETS	6	\$ 100.00	\$ 600.00
POWER SERVICE PEDESTALS			
TYPE "A" Power Service Pedestal	1	\$ 1,100.00	\$ 1,100.00
TYPE "B" Power Service Pedestal w/Battery Back-up	0	\$ 6,486.68	
VEHICLE & PEDESTRIAN DETECTION			
ECONOLITE VISION CAMERA	0	\$ 5,131.35	

ECONOLITE COMM MANAGER (PROCESSOR)	0	\$	3,030.40	
ECONOLITE CAMERA BRACKET	0	\$	60.00	
FLIR CAMERA	0	\$	4,444.40	
PIM MODULE	0	\$	600.00	
TCT EXPANDER MODULE	0	\$	864.21	
AUDIBLE PUSH BUTTON	2	\$	600.00	\$ 1,200.00
CCTV, LUMINAIRES, ILLUMINATED STREET NAME SIGNS, & EVP				
OBSERVATION CAMERA (CCTV)	1	\$	1,745.00	\$ 1,745.00
LUMINAIRE HEAD w/PHOTO CELL & LAMP	2	\$	425.00	\$ 850.00
ILLUMINATED STREET NAME SIGNS	0	\$	3,950.00	
EVP EQUIPMENT	0	\$	2,200.00	
WIRE				
#10 THHN WIRE	500	\$	0.21	\$ 105.00
#10 BOND WIRE	500	\$	0.23	\$ 115.00
SERVICE WIRE	180	\$	1.00	\$ 180.00
Cat-5 Cable	500	\$	1.52	\$ 760.00
SHIELDED CABLE WIRE-3 PAIR	0	\$	0.66	
3 CONDUCTOR IMSA CABLE	400	\$	0.33	\$ 132.00
5 CONDUCTOR IMSA CABLE	400	\$	0.56	\$ 224.00
7 CONDUCTOR IMSA CABLE	800	\$	0.82	\$ 656.00
25 CONDUCTOR IMSA CABLE	200	\$	2.60	\$ 520.00
42 CONDUCTOR IMSA CABLE	200	\$	5.38	\$ 1,076.00
FIELD MATERIALS	1	\$	1,500.00	\$ 1,500.00
CONTROL & COMMUNICATION EQUIPMENT				
BREAKERS	3	\$	28.00	\$ 84.00
TROPOS RADIO	1	\$	5,000.00	\$ 5,000.00
NETWORK SWITCH / ROUTER 12 PORT	1	\$	1,600.00	\$ 1,600.00
8-PHASE CONTROLLER	1	\$	28,000.00	\$ 28,000.00
BARRICADES	1	\$	3,000.00	\$ 3,000.00
FOUNDATION & U.G. ESTIMATE Materials Only	0			
FLAT WORK CONCRETE Materials Only	0			
CONTINGENCY	1	\$	10,000.00	\$ 10,000.00
MATERIAL TOTAL				\$104,712.00

LABOR COST ESTIMATE

LABOR DESCRIPTION	QUANTITY	HR / UNIT	CREW HRS	HOURLY RATE	TOTAL
CREW LABOR RATE	2		1	\$ 324.00	
CREW LABOR RATE	3	1	1	\$ 486.00	
CREW LABOR RATE	4		1	\$ 648.00	
CREW LABOR RATE	6	1	1	\$ 972.00	
SINGLE TECH/ELEC/INSP LABOR RATE	1	1	1	\$ 162.00	
CONCRETE LABOR RATE	1	1	1	\$ 162.00	
TRENCHING @ \$55.00 FT.	0				
	QTY ITEMS	CREW SIZE	CREW HRS	HOURLY RT	
LM-POLE FOUNDATION	0		0	\$ 486.00	
A-POLE FOUNDATION	0		0	\$ 486.00	
SM POLE FOUNDATION	0		0		
SR POLE FOUNDATION	0		0	\$ 648.00	
#3.5 J-BOX	0				
#5 J-BOX	0		0		
#7 J-BOX	0		0	\$ 324.00	
	0				
INSPECTION					
TS CONSTRUCTION	1	0	40	\$ 162.00	\$ 6,480.00
SMALL CELL	0	0	0	\$ 162.00	

POLE CONSTRUCTION / INSTALLATION					
DRESS P70 POLE	1	4	8	\$ 648.00	\$ 5,184.00
DRESS DP70 POLE	0	4	0	\$ 648.00	
DRESS P45 POLE	0	4	0	\$ 648.00	
DRESS DP45 POLE	0		0	\$ 486.00	
DRESS GP POLE	0	3	0	\$ 486.00	
DRESS LP POLE	0	3	0	\$ 486.00	
DRESS AP POLE	1	3	8	\$ 486.00	\$ 3,888.00
DRESS SR POLE	0		0	\$ 648.00	
DRESS SM POLE	0		0	\$ 486.00	
DRESS SQ-POLE	0		0		
DRESS LM -POLE	0		0	\$ 486.00	
DRESS A-POLE	0		0		
DRESS MULTI- USE- POLE	0		0		
PSP CABINET INSTALLATION TYPE-A	1	4	8	\$ 648.00	\$ 5,184.00
PSP CABINET INSTALLATION TYPE-B	0	0	0	\$ 648.00	
CONTROLLER CAB. INSTALL	1	4	8	\$ 648.00	\$ 5,184.00
FIELD WIRE	2	4	8	\$ 648.00	\$ 5,184.00
CONCRETE A-POLE	0		0	\$ 486.00	
CONCRETE LM-POLE	0		0	\$ 486.00	
CONCRETE SM-POLE	0		0	\$ 486.00	
CONCRETE SR -POLE	0		0	\$ 486.00	
GROUTING	2	2	8	\$ 324.00	\$ 2,592.00
CONCRETE CONTROLLER	0		0	\$ 486.00	
CONCRETE POWER PED.	0		0	\$ 486.00	
EXISTING EQUIPMENT REMOVAL	0		0	\$ 486.00	
RELOCATE EXIST. SMART SIGNS	0		0	\$ 486.00	
TECHNICIAN LABOR	2	2	48	\$ 324.00	\$ 15,552.00
ACTIVATION COST	1	6	8	\$ 972.00	\$ 7,776.00
MISCELLANEOUS REWORK	0		0		
DISCONNECTING & REMOVAL OF EQUIPMENT					
ELECTRICIAN LABOR	0	0	0	\$ 486.00	
TECHNICIAN LABOR	0	0	0	\$ 486.00	
CITY FORCES LABOR	0		0		\$ 57,024.00
UTILITY SERVICE FEE	1		1	\$ 4,500.00	\$ 4,500.00
FOUNDATION & U.G. CONDUIT ESTIMATE Labor Only	0		0		
FLAT WORK CONCRETE Labor Only	0	2	0		
TRAFFIC CONTROL OFFICERS	2	2	40	\$ 180.00	\$ 7,200.00
			LABOR	TOTAL	\$ 68,724.00

DATE 12/1/2022

CITY OF PHOENIX
TRAFFIC SIGNAL SHOP

COST ESTIMATE FOR
3150 W. Buckeye Rd HAWK

		Materials	\$ 104,712.00
		Labor	\$ 68,724.00
Sub-Contracted UG	[Kimbrell]	Labor & Material	\$ 25,991.00
Sub-Contracted Flat Work	[Talis]	Labor & Materials	\$ 42,000.00
		Project Total	\$ 241,427.00

PREPARED BY:

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