



ADDENDUM

Solicitation Number: IFB 21-007 Addendum 2 Page 1 of 18

Solicitation Due Date: Friday, Jan. 15, 2021, 2:00 p.m. Arizona Time

CITY OF PHOENIX
Procurement Division
251 W. Washington Street
8th Floor
Phoenix, AZ 85003
Phone: (602) 262-7181

INVITATION FOR BID (IFB) 21-007 TRAFFIC SIGNAL AND STREET LIGHT POLES AND COMPONENTS – REQUIREMENTS CONTRACT

Questions:

1. When it comes to ultrasonic testing of groove welds, the Code has two levels of difficulty for the acceptance criteria. One more strict than the other. The lower level is termed “static” and the higher sensitivity scanning is termed “cyclical”. We do not see that Jacobs specified which would apply for these traffic signal CJP welds. Per the Code it is a task or responsibility of the design team to identify static or cyclic. That ID on the contract documents determines the acceptance criteria for ultra-sonics. Which is the correct ultrasonic testing; Cyclical, or Static?

City’s Response:

Cyclical inspection is required (This note will be added to plans if/when Jacobs is hired for the second phase). FYI, cyclic inspection is required when the structures moves, and these structures move quite a bit (galloping in wind, etc.), and is the reason for the damper.

2. A449 Type 3 bolts are not readily available. Can we substitute for A449 Type 1 with hot dip galvanize coating, in Lieu of Type 3?

City’s Response:

The City will allow replacement with A449 Type 1 Hot Dip Galvanized. (Reference specification 2020_CoP_Traffic_Signal_Standard_Details.pdf., section TS2-2.)

3. The new traffic signal spec calls out for the types of ASTM materials that are to be used on the project which implies Mill Certified materials are to be used in lieu of secondary materials. Was this the intent, or are secondary materials allowed to be used?

City’s Response:

The City will not accept secondary materials being used in our poles. Jacobs does not recommend acceptance of secondary materials and will add a note disallowing them. The inclusion of ASTM requirement is intentional and helps ensure structural and material performance. (FYI - The code only allows deviation from using listed ASTM materials with permission from the owner.)

Note: **Secondary materials** are materials that have been rejected from the mill for any number of reasons. All reasons are because they do not comply with the specific code or ASTM that the items were meant to be rolled to. These items are then sold to secondary



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suppliers and distributed from those places to manufacturers at highly discounted rates (approximately 30% the cost of Mill Certified materials).

- 4. The old traffic signal spec does not call out for specific use of ASTM materials in all cases, rather it calls out for API to be used. Should we assume the city wants Mill Certified materials of similar yield strength to what is called out on the drawings, or are secondary materials acceptable?

City's Response:

Contractor may alternatively use API 5L or API 5LX materials of equal outside diameter and equal or greater yield strength and wall thickness than values shown in plans for vertical members including Poles, Riser, BP, AP, LP, vertical tube of GP, and Luminaire. Secondary materials are not allowed.

CHANGE:

REVISED SECTION VI, ITEM 6., PRICE BID SCHEDULE, REPLACES PGS 48-66.

SIGNAL POLES GROUP A

Item No.	QTY	General Description	Price per Each	Extended Price
1.	10	Type "PB" pole, provide removable rain cap, provide and install hand hole cover and all mounting hardware as shown in section TS1-4 of the COP traffic signal details and specifications.		
2.	50	15' Type "A" Pole, provide removable rain cap, provide and install hand hole cover and all mounting hardware as shown in section TS1-5 of the COP traffic signal details and specifications.		
3.	10	20' Type "A" Pole, provide removable rain cap, provide and install hand hole cover, and all mounting hardware as shown in section TS1-5 of the COP traffic signal details and specifications.		
4.	20	Type "LM" Non-mast arm pole, provide and install hand hole covers, top blank out plate, and all mounting hardware for attachment of pole extension as shown in section TS1-4 of the COP traffic signal details and specifications.		



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5.	10	Type "SM" Mast arm pole, provide hand hole covers, provide and install top blank out plate, mast arm blank out plate and all mounting hardware for attachment of luminaire extension as shown in section TS1-3 of the COP traffic signal details and specifications.		
6.	20	Type "SR" Mast arm pole, provide hand hole covers, provide and install top blank out plate, mast arm blank out plate, and all mounting hardware for attachment of luminaire extension as shown in section TS1-2 of the COP traffic signal details and specifications..		
7.	10	Type "SQ" Mast arm pole, provide hand hole covers, provide and install top blank out plate, mast arm blank out plate, and all mounting hardware for attachment of luminaire extension as shown in section TS1-1 of the COP traffic signal details and specifications.		
ADDITIONAL ITEMS				
8.	25	Type A/PB pole hand hole cover provide as shown in section TS1-1 of the COP traffic signal details and specifications.		
9.	25	Type LM pole, hand hole cover provide as shown In section TS1-4 of the COP traffic signal details and specifications.		
10.	25	Type SM, SR, SQ pole hand hole cover, provide as shown in section TS1-1,2, and 3 of the COP traffic signal details and specifications.		
MAST ARMS, EXTENSIONS, AND RISERS				
11.	10	Type SM/SR 14in Mast Arm Extension, provide all hardware as shown in section TS1-2 and 3 of the COP traffic signal details and specifications.		
12.	5	Type SM/SR 5ft Mast Arm Extension, provide all hardware as shown in section TS1-2 and 3 of the COP traffic signal details and specifications.		
13.	5	Type SM/SR 10ft Mast Arm Extension, provide all hardware as shown in section TS1-1,2and 3 of the COP traffic signal details and specification		



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14.	5	Type SQ 15ft Mast Arm Extension, provide all hardware as shown in section TS1-1 of the COP traffic signal details and specifications.		
15.	5	Type SQ 20ft Mast Arm Extension, provide all hardware as shown in section TS1-1 of the COP traffic signal details and specifications.		
16.	5	Type SM/SR 15ft Mast Arm, provide mounting hardware as shown in section TS1-2 and 3 of the COP traffic signal details and specifications.		
17.	10	Type SM/SR 25ft Mast Arm, provide mounting hardware as shown in section TS1-2 and 3 of the COP traffic signal details and specifications.		
18.	30	Type SR 40ft Mast Arm, provide mounting hardware as shown in section TS1-2 and 3 of the COP traffic signal details and specifications.		
19.	10	Type SQ 40ft Mast Arm, provide mounting hardware as shown in section TS1-1 of the COP traffic signal details and specifications.		
19a.	10	1FT POLE EXTENSION FOR LM, SM, SR, SQ		
19b.	10	5FT POLE EXTENSION FOR LM, SM, SR, SQ		
19c.	10	10FT POLE EXTENSION FOR LM, SM, SR, SQ		
19d.	10	20FT POLE EXTENSION FOR LM, SM, SR, SQ		
ANCHOR BOLT ASSEMBLIES AND REBAR CAGES				
20.	5	Type A Pole Anchor Bolt Assembly provide all hardware as shown in section TS2-2 of the COP traffic signal details and specifications.		
21.	5	Type PB Pole Anchor Bolt Assembly, provide all hardware as shown in section TS2-2 of the COP traffic signal details and specifications.		
22.	5	Type LM Pole Anchor Bolt Assembly, provide all hardware as shown in section TS2-2 of the COP traffic signal details and specifications.		
23.	10	Type SM Pole Anchor Bolt Assembly provide all hardware as shown in section TS2-2 of the COP traffic signal details and specifications.		



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24.	20	Type SR Pole Anchor Bolt Assembly provide all hardware as shown in section TS2-2 of the COP traffic signal details and specifications.		
25.	10	Type SQ Pole Anchor Bolt Assembly, provide all hardware as shown in section TS2-2 of the COP traffic signal details and specifications.		
TOTAL GROUP A				

GROUP B – NEW CITY OF PHOENIX TYPE SIGNAL POLES AND ITEMS

Item No.	QTY	General Description	Price per each	Extended Price
26.	20	TYPE BP POLE, provide removable rain cap, provide and install hand hole cover and all mounting hardware as shown in section TS1-8 of the COP traffic signal details and specifications.		
27.	150	15' TYPE AP POLE, provide removable rain cap, provide and install hand hole cover and all mounting hardware as shown in section TS1-8 of the COP traffic signal details and specifications		
28.	15	20' TYPE AP POLE, provide removable rain cap, provide and install hand hole cover and all mounting hardware as shown in section TS1- of the COP traffic signal details and specifications.		
29.	50	TYPE LP POLE, provide removable rain cap, provide and install hand hole cover and all mounting hardware as shown in section TS1-1 and 2 of the COP traffic signal details and specifications.		
30.	50	TYPE GP POLE, provide removable rain cap, provide and install hand hole cover and all mounting hardware as shown in section TS1-1 and 7 of the COP traffic signal details and specifications.		
31.	100	TYPE P45 MAST ARM POLE, provide and install hand hole covers, and all mounting hardware for attachment of luminaire extension as shown in section TS1-1, TS1-2, TSI-5 and TS1-6 of the COP traffic signal details and specifications.		
32.	5	TYPE DP45 DOUBLE MAST ARM POLE, provide and install hand hole covers and all mounting hardware for attachment of luminaire extension as shown in section TS1-1, TS1-2,		



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		TS1-5 and TS1-6 of the COP traffic signal details and specifications.		
33.	100	TYPE P70 MAST ARM POLE, provide and install hand hole covers and all mounting hardware for attachment of luminaire extension as shown in section TS1-1, TS1-2, TS1-5 and TS1-6 of the COP traffic signal details and specifications.		
34.	5	TYPE DP70 DOUBLE MAST ARM POLE, provide and install hand hole covers, provide all mounting hardware for attachment of luminaire extension as shown in section TS1-1, TS1-2, TS1-5 and TS1-6 of the COP traffic signal details and specifications		
ADDITIONAL ITEMS				
35.	10	TYPE AP/BP POLE HAND HOLE COVER provide as shown in section TS1-1 of the COP traffic signal details and specifications.		
36.	10	TYPE GP POLE HAND HOLE COVER provide as shown in section TS1-6 of the COP traffic signal details and specifications.		
37.	10	TYPE LP POLE HAND HOLE COVER provide as shown in section TS1-4 of the COP traffic signal details and specifications.		
38.	20	TYPE P45, DP45, P70, DP70 POLE HAND HOLE COVER, provide as shown in section TS1-1, TS1-2, and specifications		
39.	50	MAST ARM DAMPER provide as shown in section TS1-5 Detail "J" of the COP traffic signal details and specifications		
40.	20	RAIN CAP FOR MAST ARM TENON provide as shown in section TS1-6 of the COP traffic signal details and specifications.		
MAST ARMS, EXTENSIONS AND RISERS				
41.	250	8FT LUMINAIRE MAST ARM provide as shown in section TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications.		
42.	40	TYPE P45 or DP45 15FT MAST ARM, provide mounting hardware as shown in section TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications.		
43.	60	TYPE P45 OR DP45 30FT MAST ARM, provide mounting hardware as shown in TS1-1, TS1-2		



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		and TS1-5 of the COP traffic signal details and specifications.		
44.	10	TYPE P70/DP70 15FT MAST ARM, provide mounting hardware as shown in TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications.		
45	10	TYPE P70/DP70 30FT MAST ARM, provide mounting hardware as shown in TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications.		
46.	30	TYPE P70/DP70 40 FT MAST ARM provide mounting hardware as TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications.		
47.	50	TYPE P70/DP70 55 FT MAST ARM provide mounting hardware as shown in TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications.		
48.	25	TYPE E1 14IN MAST ARM EXTENSION, provide all hardware as shown in section TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications, excluding rain cap on tenon.		
49.	75	TYPE E5 5FT MAST ARM EXTENSION, provide all hardware as shown in section TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications, excluding rain cap on tenon.		
50.	75	TYPE E10 10FT MAST ARM EXTENSION, provide all hardware as shown in section TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications, excluding rain cap on tenon.		
51.	75	TYPE E15 15FT MAST ARM EXTENSION, provide all hardware as shown in section TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications, excluding rain cap on tenon.		
52.	25	1FT POLE RISER FOR POLE TYPES , LP, P70, DP70, P45, DP45 provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2, and TS1-5, of the COP traffic signal details and specifications.		
53.	10	1FT POLE RISER FOR POLE TYPES LP, P70, DP70, P45, DP45, with secondary mounting shoe orientated 90 degrees. provide rain cap, and all mounting hardware as shown in section TS1-1,		



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		TS1-2, and TS1-5 of the COP traffic signal details and specifications		
54.	10	1FT POLE RISER FOR POLE TYPES, LP, P70, DP70, P45, DP45, with secondary mounting shoe orientated 180 degrees. provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2, and TS1-5 of the COP traffic signal details and specifications		
55.	100	5FT POLE RISER FOR POLE TYPES, LP, P70, DP70, P45, DP45 provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2 and TS1-5of the COP traffic signal details and specifications.		
56.	25	5FT POLE RISER FOR POLE TYPES LP, P70, DP70, P45, DP45, with secondary mounting shoe orientated 90 degrees. provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications		
57.	10	5FT POLE RISER FOR POLE TYPES , LP, P70, DP70, P45, DP45, with secondary mounting shoe orientated 180 degrees. provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications		
58.	10	10FT POLE RISER FOR POLE TYPES , LP, P70, DP70, P45, DP45 provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2, and TS1-5 of the COP traffic signal details and specifications.		
59.	10	10FT POLE RISER FOR POLE TYPES LP, P70, DP70, P45, DP45, with secondary mounting shoe orientated 90 degrees. provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2, and TS1-5 of the COP traffic signal details and specifications		
60.	10	10FT POLE RISER FOR POLE TYPES LP, P70, DP70, P45, DP45, with secondary mounting shoe orientated 180 degrees. provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2, and TS1-5 of the COP traffic signal details and specifications		



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61.	50	20FT POLE RISER FOR POLE TYPES , LP, P70, DP70, P45, DP45 provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications.		
62.	10	20FT POLE RISER FOR POLE TYPES LP, P70, DP70, P45, DP45, with secondary mounting shoe orientated 90 degrees. provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2, and TS1-5 of the COP traffic signal details and specifications		
63.	10	20FT POLE RISER FOR POLE TYPES LP, P70, DP70, P45, DP45, with secondary mounting shoe orientated 180 degrees. provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2, and TS1-5 of the COP traffic signal details and specifications		
ANCHOR BOLT ASSEMBLIES AND REBAR CAGES				
64.	25	TYPE AP POLE ANCHOR BOLT ASSEMBLY provide all hardware as shown in section TS2-2 of the COP traffic signal details and specifications.		
65.	10	TYPE BP POLE ANCHOR BOLT ASSEMBLY provide all hardware as shown in section TS2-2 of the COP traffic signal details and specifications.		
66.	150	TYPE LP POLE ANCHOR BOLT ASSEMBLY provide all hardware as shown in section TS2-2 of the COP traffic signal details and specification for 30" diameter base		
67.	50	TYPE GP POLE ANCHOR BOLT ASSEMBLY provide all hardware as shown in section TS2-2 of the COP traffic signal details and specification for 24" diameter base.		
68.	100	TYPE P45 POLE ANCHOR BOLT ASSEMBLY, provide all hardware as shown in section TS2-2 of the COP traffic signal details and specification for 36" diameter base		
69.	100	TYPE P70 POLE ANCHOR BOLT ASSEMBLY, provide all hardware as shown in section TS2-2 of the COP traffic signal details and specification for 36" diameter base.		
TOTAL GROUP B				



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GROUP C -STREETLIGHTING POLES AND ITEMS

Item No.	QTY	General Description	Price per each	Extended Price
70.	10	20' Architectural (direct bury) 5" square pole; APS detail 8030- (Luminaire mast arm supplied separately)		
71.	10	30'-6"Architectural (direct bury) 5" square pole; APS detail 8030- (Luminaire mast arm supplied separately)		
72.	10	34' Architectural (direct bury) 5" square pole; APS detail 8030- (Luminaire mast arm supplied separately)		
73.	10	38' Architectural (direct bury) 5" square pole; APS detail 8030- (Luminaire mast arm supplied separately)		
74.	10	19' Round galvanized (direct bury) steel pole; APS detail 80401(Luminaire mast arm supplied separately)		
75.	10	31'-6" Round galvanized (direct bury) steel pole; APS detail 8040- (Luminaire mast arm supplied separately)		
76.	10	38'-6" Round galvanized (direct bury) steel pole; APS detail 8040- (Luminaire mast arm supplied separately)		
77.	10	40'-6" Round galvanized (direct bury) steel pole; APS detail 8040- (Luminaire mast arm supplied separately)		
78.	10	Round galvanized steel 2' mast arm – APS detail 8040.S2		
79.	10	Round galvanized steel 4' mast arm – APS detail 8040.S6		
80.	10	Round galvanized steel 6' mast arm – APS detail 8040.S8		
81.	10	Round galvanized steel (high rise) 8' mast arm – APS detail 8040.SH		
82.	10	Round galvanized steel (high rise) dual 8' mast arm – APS detail 8040.DH		
83.	10	Direct bury Giraffe street lighting pole-details provided		
84.	10	Architectural square 6" mast arm; APS detail 8030.S0, 8180		



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85.	10	Architectural square 2' mast arm; APS detail 8030.S2, 8180		
86.	10	Architectural square 4' mast arm; APS detail 8030.S4,8180		
87.	10	Architectural square 8' mast arm; APS detail 8030.S8,8180		
88.	10	Architectural square dual 2' mast arm: APS detail 8030.D2, 8180		
89.	10	Architectural square dual 4' mast arm: APS detail 8030.D4, 8180		
90.	10	Architectural square dual 8' mast arm: APS detail 8030.D4, 8180		
TOTAL GROUP C				
FINISH CARBOTHANE 8845:				
SIGNAL POLES GROUP A1				
Item No.	QTY	General Description	Price per each	Extended Price
1.	10	Type "PB" pole, provide removable rain cap, provide and install hand hole cover and all mounting hardware as shown in section TS1-4 of the COP traffic signal details and specifications.		
2.	50	15' Type "A" Pole, provide removable rain cap, provide and install hand hole cover and all mounting hardware as shown in section TS1-5 of the COP traffic signal details and specifications.		
3.	10	20' Type "A" Pole, provide removable rain cap, provide and install hand hole cover, and all mounting hardware as shown in section TS1-5 of the COP traffic signal details and specifications.		
4.	20	Type "LM" Non-mast arm pole, provide and install hand hole covers, top blank out plate, and all mounting hardware for attachment of pole extension as shown in section TS1-4 of the COP traffic signal details and specifications.		
5.	10	Type "SM" Mast arm pole, provide hand hole covers, provide and install top blank out plate, mast arm blank out plate and all mounting hardware for attachment of luminaire extension as shown in section TS1-3 of the COP traffic signal details and specifications.		



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6.	20	Type "SR" Mast arm pole, provide hand hole covers, provide and install top blank out plate, mast arm blank out plate, and all mounting hardware for attachment of luminaire extension as shown in section TS1-2 of the COP traffic signal details and specifications..		
7.	10	Type "SQ" Mast arm pole, provide hand hole covers, provide and install top blank out plate, mast arm blank out plate, and all mounting hardware for attachment of luminaire extension as shown in section TS1-1 of the COP traffic signal details and specifications.		
ADDITIONAL ITEMS				
8.	25	Type A/PB pole hand hole cover provide as shown in section TS1-1 of the COP traffic signal details and specifications.		
9.	25	Type LM pole, hand hole cover provide as shown In section TS1-4 of the COP traffic signal details and specifications.		
10.	25	Type SM, SR, SQ pole hand hole cover, provide as shown in section TS1-1,2, and 3 of the COP traffic signal details and specifications.		
MAST ARMS, EXTENSIONS, AND RISERS				
11.	10	Type SM/SR 14in Mast Arm Extension, provide all hardware as shown in section TS1-2 and 3 of the COP traffic signal details and specifications.		
12.	5	Type SM/SR 5ft Mast Arm Extension, provide all hardware as shown in section TS1-2 and 3 of the COP traffic signal details and specifications.		
13.	5	Type SM/SR 10ft Mast Arm Extension, provide all hardware as shown in section TS1-1,2and 3 of the COP traffic signal details and specification		
14.	5	Type SQ 15ft Mast Arm Extension, provide all hardware as shown in section TS1-1 of the COP traffic signal details and specifications.		
15.	5	Type SQ 20ft Mast Arm Extension, provide all hardware as shown in section TS1-1 of the COP traffic signal details and specifications.		
16.	5	Type SM/SR 15ft Mast Arm, provide mounting hardware as shown in section TS1-2 and 3 of the COP traffic signal details and specifications.		



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17.	10	Type SM/SR 25ft Mast Arm, provide mounting hardware as shown in section TS1-2 and 3 of the COP traffic signal details and specifications.		
18.	30	Type SR 40ft Mast Arm, provide mounting hardware as shown in section TS1-2 and 3 of the COP traffic signal details and specifications.		
19.	10	Type SQ 40ft Mast Arm, provide mounting hardware as shown in section TS1-1 of the COP traffic signal details and specifications.		
19a.	10	1FT POLE EXTENSION FOR LM, SM, SR, SQ		
19b.	10	5FT POLE EXTENSION FOR LM, SM, SR, SQ		
19c.	10	10FT POLE EXTENSION FOR LM, SM, SR, SQ		
19d.	10	20FT POLE EXTENSION FOR LM, SM, SR, SQ		
ANCHOR BOLT ASSEMBLIES AND REBAR CAGES				
20.	5	Type A Pole Anchor Bolt Assembly provide all hardware as shown in section TS2-2 of the COP traffic signal details and specifications.		
21.	5	Type PB Pole Anchor Bolt Assembly, provide all hardware as shown in section TS2-2 of the COP traffic signal details and specifications.		
22.	5	Type LM Pole Anchor Bolt Assembly, provide all hardware as shown in section TS2-2 of the COP traffic signal details and specifications.		
23.	10	Type SM Pole Anchor Bolt Assembly provide all hardware as shown in section TS2-2 of the COP traffic signal details and specifications.		
24.	20	Type SR Pole Anchor Bolt Assembly provide all hardware as shown in section TS2-2 of the COP traffic signal details and specifications.		
25.	10	Type SQ Pole Anchor Bolt Assembly, provide all hardware as shown in section TS2-2 of the COP traffic signal details and specifications.		
TOTAL GROUP A1				

GROUP B1 – NEW CITY OF PHOENIX TYPE SIGNAL POLES AND ITEMS

Item No.	QTY	General Description	Price per each	Extended Price
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26.	20	TYPE BP POLE, provide removable rain cap, provide and install hand hole cover and all mounting hardware as shown in section TS1-8 of the COP traffic signal details and specifications.		
27.	150	15' TYPE AP POLE, provide removable rain cap, provide and install hand hole cover and all mounting hardware as shown in section TS1-8 of the COP traffic signal details and specifications		
28.	15	20' TYPE AP POLE, provide removable rain cap, provide and install hand hole cover and all mounting hardware as shown in section TS1- of the COP traffic signal details and specifications.		
29.	50	TYPE LP POLE, provide removable rain cap, provide and install hand hole cover and all mounting hardware as shown in section TS1-1 and 2 of the COP traffic signal details and specifications.		
30.	50	TYPE GP POLE, provide removable rain cap, provide and install hand hole cover and all mounting hardware as shown in section TS1-1 and 7 of the COP traffic signal details and specifications.		
31.	100	TYPE P45 MAST ARM POLE, provide and install hand hole covers, and all mounting hardware for attachment of luminaire extension as shown in section TS1-1, TS1-2, TSI-5 and TS1-6 of the COP traffic signal details and specifications.		
32.	5	TYPE DP45 DOUBLE MAST ARM POLE, provide and install hand hole covers and all mounting hardware for attachment of luminaire extension as shown in section TS1-1, TS1-2, TS1-5 and TS1-6 of the COP traffic signal details and specifications.		
33.	100	TYPE P70 MAST ARM POLE, provide and install hand hole covers and all mounting hardware for attachment of luminaire extension as shown in section TS1-1, TS1-2, TS1-5 and TS1-6 of the COP traffic signal details and specifications.		
34.	5	TYPE DP70 DOUBLE MAST ARM POLE, provide and install hand hole covers, provide all mounting hardware for attachment of luminaire extension as shown in section TS1-1, TS1-2, TS1-5 and TS1-6 of the COP traffic signal details and specifications		
ADDITIONAL ITEMS				



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35.	10	TYPE AP/BP POLE HAND HOLE COVER provide as shown in section TS1-1 of the COP traffic signal details and specifications.		
36.	10	TYPE GP POLE HAND HOLE COVER provide as shown in section TS1-6 of the COP traffic signal details and specifications.		
37.	10	TYPE LP POLE HAND HOLE COVER provide as shown in section TS1-4 of the COP traffic signal details and specifications.		
38.	20	TYPE P45, DP45, P70, DP70 POLE HAND HOLE COVER, provide as shown in section TS1-1, TS1-2, and specifications		
39.	50	MAST ARM DAMPER provide as shown in section TS1-5 Detail "J" of the COP traffic signal details and specifications		
40.	20	RAIN CAP FOR MAST ARM TENON provide as shown in section TS1-6 of the COP traffic signal details and specifications.		
MAST ARMS, EXTENSIONS, AND RISERS				
41.	250	8FT LUMINAIRE MAST ARM provide as shown in section TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications.		
42.	40	TYPE P45 or DP45 15FT MAST ARM, provide mounting hardware as shown in section TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications.		
43.	60	TYPE P45 OR DP45 30FT MAST ARM, provide mounting hardware as shown in TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications.		
44.	10	TYPE P70/DP70 15FT MAST ARM, provide mounting hardware as shown in TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications.		
45.	10	TYPE P70/DP70 30FT MAST ARM, provide mounting hardware as shown in TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications.		
46.	30	TYPE P70/DP70 40 FT MAST ARM provide mounting hardware as TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications.		
47.	50	TYPE P70/DP70 55 FT MAST ARM provide mounting hardware as shown in TS1-1, TS1-2 and		



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		TS1-5 of the COP traffic signal details and specifications.		
48.	25	TYPE E1 14IN MAST ARM EXTENSION, provide all hardware as shown in section TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications, excluding rain cap on tenon.		
49.	75	TYPE E5 5FT MAST ARM EXTENSION, provide all hardware as shown in section TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications, excluding rain cap on tenon.		
50.	75	TYPE E10 10FT MAST ARM EXTENSION, provide all hardware as shown in section TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications, excluding rain cap on tenon.		
51.	75	TYPE E15 15FT MAST ARM EXTENSION, provide all hardware as shown in section TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications, excluding rain cap on tenon.		
52.	25	1FT POLE RISER FOR POLE TYPES , LP, P70, DP70, P45, DP45 provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2, and TS1-5, of the COP traffic signal details and specifications.		
53.	10	1FT POLE RISER FOR POLE TYPES LP, P70, DP70, P45, DP45, with secondary mounting shoe orientated 90 degrees. provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2, and TS1-5 of the COP traffic signal details and specifications		
54.	10	1FT POLE RISER FOR POLE TYPES, LP, P70, DP70, P45, DP45, with secondary mounting shoe orientated 180 degrees. provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2, and TS1-5 of the COP traffic signal details and specifications		
55.	100	5FT POLE RISER FOR POLE TYPES , LP, P70, DP70, P45, DP45 provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2 and TS1-5of the COP traffic signal details and specifications.		
56.	25	5FT POLE RISER FOR POLE TYPES LP, P70, DP70, P45, DP45, with secondary mounting shoe orientated 90 degrees. provide rain cap, and all		



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		mounting hardware as shown in section TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications		
57.	10	5FT POLE RISER FOR POLE TYPES , LP, P70, DP70, P45, DP45, with secondary mounting shoe orientated 180 degrees. provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications		
58.	10	10FT POLE RISER FOR POLE TYPES LP, P70, DP70, P45, DP45 provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2, and TS1-5 of the COP traffic signal details and specifications.		
59.	10	10FT POLE RISER FOR POLE TYPES LP, P70, DP70, P45, DP45, with secondary mounting shoe orientated 90 degrees. provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2, and TS1-5 of the COP traffic signal details and specifications		
60.	10	10FT POLE RISER FOR POLE TYPES LP, P70, DP70, P45, DP45, with secondary mounting shoe orientated 180 degrees. provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2, and TS1-5 of the COP traffic signal details and specifications		
61.	50	20FT POLE RISER FOR POLE TYPES , LP, P70, DP70, P45, DP45 provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2 and TS1-5 of the COP traffic signal details and specifications.		
62.	10	20FT POLE RISER FOR POLE TYPES LP, P70, DP70, P45, DP45, with secondary mounting shoe orientated 90 degrees. provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2, and TS1-5 of the COP traffic signal details and specifications		
63.	10	20FT POLE RISER FOR POLE TYPES LP, P70, DP70, P45, DP45, with secondary mounting shoe orientated 180 degrees. provide rain cap, and all mounting hardware as shown in section TS1-1, TS1-2, and TS1-5 of the COP traffic signal details and specifications		



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ANCHOR BOLT ASSEMBLIES AND REBAR CAGES

64.	25	TYPE AP POLE ANCHOR BOLT ASSEMBLY provide all hardware as shown in section TS2-2 of the COP traffic signal details and specifications.		
65.	10	TYPE BP POLE ANCHOR BOLT ASSEMBLY provide all hardware as shown in section TS2-2 of the COP traffic signal details and specifications.		
66.	150	TYPE LP POLE ANCHOR BOLT ASSEMBLY provide all hardware as shown in section TS2-2 of the COP traffic signal details and specification for 30" diameter base		
67.	50	TYPE GP POLE ANCHOR BOLT ASSEMBLY provide all hardware as shown in section TS2-2 of the COP traffic signal details and specification for 24" diameter base.		
68.	100	TYPE P45 POLE ANCHOR BOLT ASSEMBLY, provide all hardware as shown in section TS2-2 of the COP traffic signal details and specification for 36" diameter base		
69.	100	TYPE P70 POLE ANCHOR BOLT ASSEMBLY, provide all hardware as shown in section TS2-2 of the COP traffic signal details and specification for 36" diameter base.		
TOTAL GROUP B1				

GROUP C1 DELETED IN IT'S ENTIRETY

The balance of the specifications and instructions remain the same. Bidder must acknowledge receipt and acceptance of this addendum by returning the entire addendum with the bid or proposal submittal.

Name of Company: _____

Address: _____

Authorized Signature: _____

Print Name and Title: _____