



**Department of Engineering
and Public Works**

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West Palm Beach, FL 33416-1229
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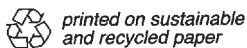
**Palm Beach County
Board of County
Commissioners**

- Robert S. Weinroth, Mayor
- Gregg K. Weiss, Vice Mayor
- Maria G. Marino
- Dave Kerner
- Maria Sachs
- Melissa McKinlay
- Mack Bernard

County Administrator


Verdenia C. Baker

*"An Equal Opportunity
Affirmative Action Employer"*



DATE: April 1, 2022

TO: Gerelco Traffic Controls, Inc.
Horsepower Electric, Inc.

FROM: Morton L. Rose, P.E., Director 
Roadway Production Division

RE: **AWARD RECOMMENDATION
ANNUAL TRAFFIC SIGNAL
CONSTRUCTION CONTRACT
PALM BEACH COUNTY PROJECT NO.: 2022052**

Based on bid results and EBO compliance review, Engineering & Public Works recommends award of the above referenced contract to **Gerelco Traffic Controls, Inc.** and **Horsepower Electric, Inc.**

The enclosed Award Recommendation will be posted at the Engineering & Public Works Department/Roadway Production Division Lobby area on the Third Floor at 2300 North Jog Road, West Palm Beach, Florida on April 4, 2022 and to: <http://discover.pbcgov.org/engineering/roadwayproduction/Pages/Bid-Documents.aspx>

If your office wishes to protest the award recommendation, you may do so by addressing your protest to Ms. Samara Cooper, Assistant Director, Palm Beach County Purchasing Department, 50 South Military Trail, West Palm Beach, Florida 33415. Failure to submit a protest to the Director of Purchasing within five (5) business days after posting of the Award Recommendation, as prescribed in Section 2-55(b) of the Palm Beach County Code, shall constitute a waiver of proceedings under the referenced County Code.

We thank you for your continued interest in bidding Palm Beach County projects.

- cc:
- David L. Ricks, P.E., County Engineer
 - Joanne M. Keller, P.E., Deputy County Engineer
 - Steven B. Carrier, P.E., Assistant County Engineer
 - Yelizaveta B. Herman, Assistant County Attorney
 - Samara Cooper, Assistant Director, Purchasing Department
 - Alexis Willhite, Director, Administrative Services
 - Kathleen O. Farrell, P.E., Assistant Director, Roadway Production Division
 - Holly B. Knight, P.E., Contracts Section Manager, Roadway Production Div.
 - Motaseem Al-Turk, P.E., Director, Traffic Division
 - Fattoush Jafar, P.E., Manager, Traffic Engineering Operations
 - Albert Hoffman, Director, Construction Coordination
 - Vanessa Jagoo, Office Manager, Roadway Production Division
 - Saman Rohani, Utility Coordinator, Roadway Production Division
 - Tiffany Thomas, Office of the Inspector General
 - Angela Smith, Small Business Development Specialist II, OEBO
 - Cornelia Wantz, Technical Assistant III, Traffic Division
 - Johnathan Blanco, Fiscal Manager, Administrative Services
 - Danny Ramlalsingh, Financial Analyst, Administrative Services

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AWARD RECOMMENDATION

PROJECT NO: 2022052

TITLE: ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT

LIST OF BIDDERS FROM LOWEST TO HIGHEST	TOTAL AMOUNT OF BID
GERELCO TRAFFIC CONTROLS, INC. *	\$10,502,074.40
HORSEPOWER ELECTRIC, INC. *	\$13,404,295.00

* Palm Beach County Engineering & Public Works recommends award to **Gerelco Traffic Controls, Inc.** and Horsepower Electric, Inc., the lowest, responsive, responsible bidders.

REMARKS: A Waiver of API requirements was requested by the Engineering Department on December 29, 2021 and approved by OEBO on January 20, 2022.

Encl.: OEBO Approved Waiver
Bid Tabulations



Office of
Equal Business Opportunity
50 South Military Trail, Suite 202
West Palm Beach, FL 33415
(561) 616-6840
www.pbcgov.com/oebo



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Official Electronic Letterhead

INTER-OFFICE MEMORANDUM

Date: Thursday, January 20, 2022
To: David L. Ricks, County Engineer
Engineering and Public Works
From: Tonya Davis Johnson, Director 
Office of Equal Business Opportunity
Re: Approval of Request for Waiver of API Requirements for
Annual Traffic Signal Construction Contract Palm Beach
County Project #2022052

Your Request for Waiver of API Requirements for the above named project was received on Thursday, January 06, 2022 and has been reviewed. It is the determination of the Office of Equal Business Opportunity (OEBO) that the request for Waiver of API Requirements is **APPROVED**.

The OEBO is granting this waiver based upon the determination that sufficient qualified S/M/WBEs providing the goods or services required by the contract are unavailable in Palm Beach County despite every reasonable attempt to locate them.

If you have any questions, please contact Allen Gray at 561-616-6842 or email at agray@pcgov.org.

Thank you.

cc: Allen Gray, Manager

BID TABULATIONS ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT PBC PROJECT #2022052					Average of Bid Items for All Bidders		Engineer's Estimate		Gerelco Traffic Controls, Inc		Horsepower Electric, Inc.	
Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount		
102-1-A	General Maintenance of Traffic	1,000	HR	F&I	\$ 88.00	\$ 157.50	\$ 121.00	\$ 121,000.00	\$ 55.00	\$ 55,000.00		
102-1-B	Maintenance of Traffic (Securing Signal Pole)	24	HR	F&I	\$ 302.50	\$ 167.50	\$ 480.00	\$ 11,520.00	\$ 125.00	\$ 3,000.00		
102-1-C	Maintenance of Traffic (Utility Location, Soft Dig Up to 6 Feet)	50	HR	F&I	\$ 175.00	\$ 225.00	\$ 225.00	\$ 11,250.00	\$ 125.00	\$ 6,250.00		
102-1-C1	Maintenance of Traffic (Utility Location, Soft Dig Up to 10 Feet)	400	HR	F&I	\$ 240.00	\$ 200.00	\$ 350.00	\$ 140,000.00	\$ 130.00	\$ 52,000.00		
102-1-D	General Maintenance of Traffic (Night Operation)	4	EA	F&I	\$ 512.50	\$ 500.00	\$ 950.00	\$ 3,800.00	\$ 75.00	\$ 300.00		
102-14	Maintenance of Traffic (Traffic Control Officer)	48	HR	F&I	\$ 150.00	\$ 75.00	\$ 225.00	\$ 10,800.00	\$ 75.00	\$ 3,600.00		
102-99	Portable Changeable - Variable Message Sign (Temporary)	20	ED	F&I	\$ 47.50	\$ 92.50	\$ 65.00	\$ 1,300.00	\$ 30.00	\$ 600.00		
455-142	Crosshole Sonic Logging/ Drill Shaft Testing Testing	4	EA	F&I	\$ 2,650.00	\$ 2,175.00	\$ 2,300.00	\$ 9,200.00	\$ 3,000.00	\$ 12,000.00		
455-147-1	Thermal Integrity Testing, Up to 4' Shaft Diameters	4	EA	F	\$ 3,825.00	\$ 2,462.50	\$ 2,650.00	\$ 10,600.00	\$ 5,000.00	\$ 20,000.00		
455-147-2	Thermal Integrity Testing, 4.5' to 6' Shaft Diameters	5	EA	F	\$ 4,400.00	\$ 2,825.00	\$ 3,300.00	\$ 16,500.00	\$ 5,500.00	\$ 27,500.00		
522-1	Concrete Sidewalk and Driveways 4" Thick	20	SY	F&I	\$ 115.00	\$ 97.50	\$ 158.00	\$ 3,160.00	\$ 72.00	\$ 1,440.00		
522-2	Concrete Sidewalk and Driveways 6" Thick	\$ 20.00	SY	F&I	\$ 134.70	\$ 125.00	\$ 183.00	\$ 3,660.00	\$ 86.40	\$ 1,728.00		
620-1-1	Grounding Electrode	\$ 100.00	EA	F&I	\$ 56.00	\$ 65.00	\$ 12.00	\$ 1,200.00	\$ 100.00	\$ 10,000.00		
630-2-11-2	2" PVC (Sch 40) Underground Conduit	\$ 3,000.00	LF	F&I	\$ 19.15	\$ 7.40	\$ 8.30	\$ 24,900.00	\$ 30.00	\$ 90,000.00		
630-2-11-2A	Additional 2" PVC (Sch 40) Conduit, in Open Trench	\$ 2,600.00	LF	F&I	\$ 5.10	\$ 2.45	\$ 5.20	\$ 13,520.00	\$ 5.00	\$ 13,000.00		
630-2-12-2-1	1-2" (HDPE SDR 11) Under Pavement Conduit (Directional Bore)	\$ 1,280.00	LF	F&I	\$ 30.50	\$ 13.33	\$ 25.00	\$ 32,000.00	\$ 36.00	\$ 46,080.00		
630-2-12-2-2	2-2" (HDPE SDR 11) Under Pavement Conduit (Directional Bore)	1870	LF	F&I	\$ 33.70	\$ 18.10	\$ 29.00	\$ 54,230.00	\$ 38.40	\$ 71,808.00		
630-2-12-2-3	3-2" (HDPE SDR 11) Under Pavement Conduit (Directional Bore)	2520	LF	F&I	\$ 37.50	\$ 23.05	\$ 33.00	\$ 83,160.00	\$ 42.00	\$ 105,840.00		
630-2-12-2-4	4-2" (HDPE SDR 11) Under Pavement Conduit (Directional Bore)	1,600	LF	F&I	\$ 41.70	\$ 28.18	\$ 39.00	\$ 62,400.00	\$ 44.40	\$ 71,040.00		
630-2-12-2-5	5-2" (HDPE SDR 11) Under Pavement Conduit (Directional Bore)	1,856	LF	F&I	\$ 45.30	\$ 34.03	\$ 45.00	\$ 83,520.00	\$ 45.60	\$ 84,633.60		
630-2-14-1	1" Rigid Conduit Hot Dipped Galvanized Conduit Surface Mounted	425	LF	F&I	\$ 31.60	\$ 10.81	\$ 33.20	\$ 14,110.00	\$ 30.00	\$ 12,750.00		
630-2-14-2	2" Rigid Conduit Hot Dipped Galvanized Conduit Surface Mounted	930	LF	F&I	\$ 40.90	\$ 13.80	\$ 43.80	\$ 40,734.00	\$ 38.00	\$ 35,340.00		
630-3	Rodding and Cleaning Out Existing Conduit Any Type	100	LF	F&I	\$ 1.70	\$ 2.63	\$ 1.90	\$ 190.00	\$ 1.50	\$ 150.00		
632-7-1-19	Signal Cable - 19 Conductor	1,440	LF	F&I	\$ 15.75	\$ 4.78	\$ 6.50	\$ 9,360.00	\$ 25.00	\$ 36,000.00		
632-7-1-19A	Signal Cable (Span Length 0' - 250')	2	PI	F&I	\$ 8,542.00	\$ 2,213.00	\$ 5,084.00	\$ 10,168.00	\$ 12,000.00	\$ 24,000.00		
632-7-1-19B	Signal Cable (Span Length 251' - 350')	1	PI	F&I	\$ 9,425.00	\$ 2,674.00	\$ 5,850.00	\$ 5,850.00	\$ 13,000.00	\$ 13,000.00		
632-7-1-19C	Signal Cable (Span Length 351' - 450')	4	PI	F&I	\$ 9,975.00	\$ 3,415.00	\$ 5,950.00	\$ 23,800.00	\$ 14,000.00	\$ 56,000.00		

BID TABULATIONS ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT PBC PROJECT #2022052					Average of Bid Items for All Bidders Engineer's Estimate		Gerelco Traffic Controls, Inc		Horsepower Electric, Inc.	
Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount
632-7-1-19D	Signal Cable (Span Length 451' - 550')	3	PI	F&I	\$ 11,100.00	\$ 4,131.50	\$ 7,200.00	\$ 21,600.00	\$ 15,000.00	\$ 45,000.00
632-7-1-19E	Signal Cable (Span Length 551' - 650')	6	PI	F&I	\$ 11,900.00	\$ 4,717.50	\$ 7,800.00	\$ 46,800.00	\$ 16,000.00	\$ 96,000.00
632-7-1-19F	Signal Cable (Span Length 651' - 750')	6	PI	F&I	\$ 12,750.00	\$ 6,295.00	\$ 8,500.00	\$ 51,000.00	\$ 17,000.00	\$ 102,000.00
632-7-1-19G	Signal Cable (Span Length 751' - Greater)	6	PI	F&I	\$ 14,700.00	\$ 7,645.00	\$ 11,400.00	\$ 68,400.00	\$ 18,000.00	\$ 108,000.00
632-7-1-4	Signal Cable - 4 Conductor	1000	LF	F&I	\$ 10.20	\$ 2.58	\$ 5.40	\$ 5,400.00	\$ 15.00	\$ 15,000.00
632-7-1-4A	Pedestrian Signal Cable - 4 Conductor	25	PI	F&I	\$ 4,500.00	\$ 1,906.00	\$ 4,500.00	\$ 112,500.00	\$ 4,500.00	\$ 112,500.00
632-7-1-7	Signal Cable - 7 Conductor	1000	LF	F&I	\$ 12.85	\$ 2.86	\$ 5.70	\$ 5,700.00	\$ 20.00	\$ 20,000.00
632-7-1-7A	Pedestrian Signal Cable - 7 Conductor	25	PI	F&I	\$ 6,875.00	\$ 2,870.50	\$ 6,250.00	\$ 156,250.00	\$ 7,500.00	\$ 187,500.00
632-7-6	Signal Cable, Remove - in Intersection	10	PI	R	\$ 1,000.00	\$ 1,000.00	\$ 1,500.00	\$ 15,000.00	\$ 500.00	\$ 5,000.00
632-7-7	Signal Cable, Remove - in Intersection	530	LF	R	\$ 1.45	\$ 1.25	\$ 0.90	\$ 477.00	\$ 2.00	\$ 1,060.00
634-4-153-1A	Span Wire Assembly (3/8") (Span Length 0' - 250')	2	PI	F&I	\$ 5,242.50	\$ 3,065.50	\$ 5,085.00	\$ 10,170.00	\$ 5,400.00	\$ 10,800.00
634-4-153-1B	Span Wire Assembly (3/8") (Span Length 251' - 350')	1	PI	F&I	\$ 5,925.00	\$ 3,235.00	\$ 5,850.00	\$ 5,850.00	\$ 6,000.00	\$ 6,000.00
634-4-153-1C	Span Wire Assembly (3/8") (Span Length 351' - 450')	4	PI	F&I	\$ 6,225.00	\$ 3,702.00	\$ 5,950.00	\$ 23,800.00	\$ 6,500.00	\$ 26,000.00
634-4-153-1D	Span Wire Assembly (3/8") (Span Length 451' - 550')	2	PI	F&I	\$ 6,650.00	\$ 3,934.50	\$ 6,300.00	\$ 12,600.00	\$ 7,000.00	\$ 14,000.00
634-4-153-1E	Span Wire Assembly (3/8") (Span Length 551' - 650')	2	PI	F&I	\$ 7,150.00	\$ 4,548.00	\$ 6,800.00	\$ 13,600.00	\$ 7,500.00	\$ 15,000.00
634-4-153-1F	Span Wire Assembly (3/8") (Span Length 651' - 750')	1	PI	F&I	\$ 7,625.00	\$ 4,700.00	\$ 7,250.00	\$ 7,250.00	\$ 8,000.00	\$ 8,000.00
634-4-153-2E	Span Wire Assembly (7/16") (Span Length: 551' - 650')	4	PI	F&I	\$ 7,275.00	\$ 7,527.00	\$ 7,550.00	\$ 30,200.00	\$ 7,000.00	\$ 28,000.00
634-4-153-2F	Span Wire Assembly (7/16") (Span Length 651' - 750')	1	PI	F&I	\$ 7,500.00	\$ 8,495.00	\$ 7,500.00	\$ 7,500.00	\$ 7,500.00	\$ 7,500.00
634-4-153-2G	Span Wire Assembly (7/16") (Span Length 751' - Greater)	1	PI	F&I	\$ 7,750.00	\$ 9,441.50	\$ 7,500.00	\$ 7,500.00	\$ 8,000.00	\$ 8,000.00
634-4-153-3F	Span Wire Assembly (1/2") (Span Length 651' - 750')	1	PI	F&I	\$ 8,907.50	\$ 9,252.00	\$ 9,315.00	\$ 9,315.00	\$ 8,500.00	\$ 8,500.00
634-4-153-3G	Span Wire Assembly (1/2") (Span Length 751' - Greater')	2	PI	F&I	\$ 9,750.00	\$ 10,016.50	\$ 10,500.00	\$ 21,000.00	\$ 9,000.00	\$ 18,000.00
634-4-153-5G	Span Wire Assembly (3/4") (Span Length 751' - Greater')	1	PI	F&I	\$ 10,825.50	\$ 10,815.00	\$ 11,651.00	\$ 11,651.00	\$ 10,000.00	\$ 10,000.00
634-31-405	Mast Arm Double Arm, 60' and 70.5' on Existing Foundation	1	EA	F&I	\$ 71,125.00	\$ 65,000.00	\$ 67,250.00	\$ 67,250.00	\$ 75,000.00	\$ 75,000.00
634-5-1	Fiberglass insulator (to insulate Power Lines)	20	LF	F&I	\$ 36.25	\$ 19.22	\$ 22.50	\$ 450.00	\$ 50.00	\$ 1,000.00
635-2-10	Pull Box (11" x 18" x 12"D) Heavy Duty Covers (Tier 15)	100	LF	F&I	\$ 825.00	\$ 557.50	\$ 350.00	\$ 35,000.00	\$ 1,300.00	\$ 130,000.00
635-2-11	Pull Box (13" x 24" x 12"D) Heavy Duty Covers (Tier 15)	46	LF	F&I	\$ 1,190.00	\$ 669.00	\$ 700.00	\$ 32,200.00	\$ 1,680.00	\$ 77,280.00
635-2-12	Pull Box (24" x 36" x 12"D) Heavy Duty Covers (Tier 15)	100	EA	F&I	\$ 1,575.00	\$ 933.00	\$ 1,350.00	\$ 135,000.00	\$ 1,800.00	\$ 180,000.00

BID TABULATIONS ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT PBC PROJECT #2022052					Average of Bid Items for All Bidders		Engineer's Estimate		Gerelco Traffic Controls, Inc		Horsepower Electric, Inc.	
Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount		
635-2-12-A	Pull Box (17" x 30" x 12"D) Heavy Duty Covers (Tier 15)	170	EA	F&I	\$ 1,500.00	\$ 840.50	\$ 1,000.00	\$ 170,000.00	\$ 2,000.00	\$ 340,000.00		
635-2-12-B	Pull Box, (24" x 36" x 24"D) Fiberglass, Heavy Duty Covers (Tier 15)	2	EA	F&I	\$ 2,175.00	\$ 1,234.00	\$ 1,850.00	\$ 3,700.00	\$ 2,500.00	\$ 5,000.00		
635-2-12-C	Pull Box (30" x 48" x 24"D) Heavy Duty Split Covers (Its) (Tier 15)	12	EA	F&I	\$ 3,500.00	\$ 1,795.00	\$ 3,500.00	\$ 42,000.00	\$ 3,500.00	\$ 42,000.00		
635-2-12-D	Pull Box (17" x 30" x 24"D) Heavy Duty Split Covers (Its) (Tier 15)	10	EA	F&I	\$ 2,200.00	\$ 1,183.50	\$ 2,200.00	\$ 22,000.00	\$ 2,200.00	\$ 22,000.00		
639-1-111	Electrical Power Service with Meter Base (Overhead) Meter Furnished By Power Company	2	AS	F&I	\$ 2,413.00	\$ 1,231.00	\$ 1,326.00	\$ 2,652.00	\$ 3,500.00	\$ 7,000.00		
639-1-113	Electrical Power Service No Meter Base (Overhead)	2	AS	F&I	\$ 2,362.50	\$ 1,264.00	\$ 1,325.00	\$ 2,650.00	\$ 3,400.00	\$ 6,800.00		
639-1-121	Electrical Power Service with Meter Base (Underground) Meter Furnished By Power Company	14	AS	F&I	\$ 3,662.50	\$ 1,297.00	\$ 1,325.00	\$ 18,550.00	\$ 6,000.00	\$ 84,000.00		
639-1-123	Electrical Power Service No Meter Base (Underground)	10	AS	F&I	\$ 2,575.00	\$ 1,251.50	\$ 1,150.00	\$ 11,500.00	\$ 4,000.00	\$ 40,000.00		
639-1-610	Remove Power Service (Overhead)	2	EA	R	\$ 667.50	\$ 291.50	\$ 975.00	\$ 1,950.00	\$ 360.00	\$ 720.00		
639-1-620	Remove Power Service (Underground)	2	EA	R	\$ 554.00	\$ 316.50	\$ 628.00	\$ 1,256.00	\$ 480.00	\$ 960.00		
639-2-1-3	Electrical Service Wire (Sngle Phase 3-Wire, Triplex)	1866	LF	F&I	\$ 9.25	\$ 3.26	\$ 5.50	\$ 10,263.00	\$ 13.00	\$ 24,258.00		
639-2-1-2	Electrical Service Wire (Sngle Phase 2-Wire, Duplex)	1000	LF	F&I	\$ 7.70	\$ 2.74	\$ 3.40	\$ 3,400.00	\$ 12.00	\$ 12,000.00		
639-3-11	Electrical Service Disconnect (Breaker Box, Sheet T 6.2 of PBC StandarDS)	10	EA	F&I	\$ 1,192.50	\$ 449.00	\$ 885.00	\$ 8,850.00	\$ 1,500.00	\$ 15,000.00		
639-3-60	Electrical Service Disconnect, Remove	3	EA	R	\$ 401.50	\$ 200.00	\$ 628.00	\$ 1,884.00	\$ 175.00	\$ 525.00		
641-1-1	Guying Concrete Strain Poles (1-Guy Wire Per Pole)	1	EA	F&I	\$ 1,295.50	\$ 639.00	\$ 1,091.00	\$ 1,091.00	\$ 1,500.00	\$ 1,500.00		
641-1-2	Guying Concrete Strain Poles (2-Guy Wire Per Pole)	1	EA	F&I	\$ 1,891.50	\$ 954.00	\$ 2,183.00	\$ 2,183.00	\$ 1,600.00	\$ 1,600.00		
641-2-12-12	Prestressed Concrete Pole (12' Type P-II)	14	EA	F&I	\$ 2,125.00	\$ 788.50	\$ 1,250.00	\$ 17,500.00	\$ 3,000.00	\$ 42,000.00		
641-2-15-44	Prestressed Concrete Pole (44' Type P-V)	4	EA	F&I	\$ 6,750.00	\$ 6,142.50	\$ 4,500.00	\$ 18,000.00	\$ 9,000.00	\$ 36,000.00		
641-2-16-44	Prestressed Concrete Pole (44' Type P-VI)	4	EA	F&I	\$ 6,950.00	\$ 6,841.00	\$ 4,600.00	\$ 18,400.00	\$ 9,300.00	\$ 37,200.00		
641-2-16-46	Prestressed Concrete Pole (46' Type P-VI)	8	EA	F&I	\$ 7,300.00	\$ 7,149.50	\$ 4,600.00	\$ 36,800.00	\$ 10,000.00	\$ 80,000.00		
641-2-17-44	Prestressed Concrete Pole (44' Type P-VII)	8	EA	F&I	\$ 9,550.00	\$ 8,512.50	\$ 9,500.00	\$ 76,000.00	\$ 9,600.00	\$ 76,800.00		
641-2-17-46	Prestressed Concrete Pole (46' Type P-VII)	8	EA	F&I	\$ 12,750.00	\$ 8,720.00	\$ 14,500.00	\$ 116,000.00	\$ 11,000.00	\$ 88,000.00		
641-2-17-50	Prestressed Concrete Pole (50' Type P-VII)	4	EA	F&I	\$ 14,000.00	\$ 9,078.50	\$ 16,000.00	\$ 64,000.00	\$ 12,000.00	\$ 48,000.00		
641-2-17-52	Prestressed Concrete Pole (52' Type P-VII)	4	EA	F&I	\$ 15,250.00	\$ 15,000.00	\$ 17,500.00	\$ 70,000.00	\$ 13,000.00	\$ 52,000.00		
641-2-17-54	Prestressed Concrete Pole (54' Type P-VII)	2	EA	F&I	\$ 16,000.00	\$ 15,000.00	\$ 18,000.00	\$ 36,000.00	\$ 14,000.00	\$ 28,000.00		
641-2-17-60	Prestressed Concrete Pole (60' Type P-VII)	2	EA	F&I	\$ 16,750.00	\$ 10,604.00	\$ 18,500.00	\$ 37,000.00	\$ 15,000.00	\$ 30,000.00		
641-2-18-50	Prestressed Concrete Pole (50' Type P-VIII)	8	EA	F&I	\$ 18,000.00	\$ 9,490.00	\$ 20,000.00	\$ 160,000.00	\$ 16,000.00	\$ 128,000.00		

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Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount
641-2-18-52	Prestressed Concrete Pole (52' Type P-VIII)	22	EA	F&I	\$ 18,250.00	\$ 15,000.00	\$ 20,000.00	\$ 440,000.00	\$ 16,500.00	\$ 363,000.00
641-2-19-60	Prestressed Concrete Pole (60' Type P-Custom Design)	2	EA	F&I	\$ 19,750.00	\$ 11,097.00	\$ 21,500.00	\$ 43,000.00	\$ 18,000.00	\$ 36,000.00
641-2-30A	Prestressed Concrete Pole (Install Only - V, VI, VII, or VIII Up to 10' Deep)	2	EA	I	\$ 12,750.00	\$ 5,392.50	\$ 15,500.00	\$ 31,000.00	\$ 10,000.00	\$ 20,000.00
641-2-60	Concrete Pole Removal - Shallow (Includes Pole and Buried Attachments to A Depth of 4 Feet Below Existing Grade) Includes Disposal of Pole When instructed by Engineer	8	EA	R	\$ 2,000.00	\$ 4,566.50	\$ 2,500.00	\$ 20,000.00	\$ 1,500.00	\$ 12,000.00
641-2-70	Concrete Pole Removal - Shallow (Includes Pole and Buried Attachments to A Depth of 4 Feet Below Existing Grade) Includes Disposal of Pole When instructed by Engineer	8	EA	R	\$ 2,210.00	\$ 4,566.50	\$ 2,500.00	\$ 20,000.00	\$ 1,920.00	\$ 15,360.00
641-2-80	Concrete Pole Removal - Deep (Includes Pole and Complete Removal of The Pole Foundation Depth of Up to 25 Feet) Includes Disposal of Pole When instructed by Engineer	6	EA	R	\$ 2,830.00	\$ 10,382.50	\$ 3,500.00	\$ 21,000.00	\$ 2,160.00	\$ 12,960.00
641-30B	Additional Depth for Concrete Pole Burial Deeper than 10 Feet	114	LF	F&I	\$ 300.00	\$ 372.00	\$ 350.00	\$ 39,900.00	\$ 250.00	\$ 28,500.00
641-99-1	Fdot Type 3/4" Eyebolt	1	EA	F&I	\$ 500.00	\$ 450.00	\$ 750.00	\$ 750.00	\$ 250.00	\$ 250.00
641-99-2	PBC Type 3/4" Eyebolt	1	EA	F&I	\$ 237.50	\$ 200.00	\$ 225.00	\$ 225.00	\$ 250.00	\$ 250.00
643-1-1	Guiying Wood Pole (1-Guy Wire Per Pole)	2	EA	F&I	\$ 1,100.00	\$ 440.50	\$ 1,100.00	\$ 2,200.00	\$ 1,100.00	\$ 2,200.00
643-1-2	Guiying Wood Pole (2-Guy Wire Per Pole)	2	EA	F&I	\$ 1,331.00	\$ 806.50	\$ 1,462.00	\$ 2,924.00	\$ 1,200.00	\$ 2,400.00
643-150	Wood Strain 50' Pole (Buried Up to 10' Deep) Direct Burial	2	EA	F&I	\$ 2,725.00	\$ 1,055.00	\$ 3,650.00	\$ 7,300.00	\$ 1,800.00	\$ 3,600.00
643-155	Wood Strain 55' Pole (Buried Up to 10' Deep) Direct Burial	2	EA	F&I	\$ 2,775.00	\$ 1,170.50	\$ 3,650.00	\$ 7,300.00	\$ 1,900.00	\$ 3,800.00
643-300	Wood Strain Pole (Install Only, Buried Up to 10' Deep) Direct Burial	2	EA	I	\$ 925.00	\$ 624.50	\$ 450.00	\$ 900.00	\$ 1,400.00	\$ 2,800.00
643-600	Remove Wood Strain Pole (Complete)	10	EA	R	\$ 585.00	\$ 450.00	\$ 450.00	\$ 4,500.00	\$ 720.00	\$ 7,200.00
646-1-11	Aluminum Signals Pole, Pedestal with Transformer Base (8 Feet Above Ground)	76	EA	F&I	\$ 2,540.00	\$ 1,165.50	\$ 1,580.00	\$ 120,080.00	\$ 3,500.00	\$ 266,000.00
646-1-12	Aluminum Signals Pole, Pedestrian Detector Post (5.5-Ft Above Ground) with Transformer Base	2	EA	F&I	\$ 1,300.00	\$ 1,095.50	\$ 1,100.00	\$ 2,200.00	\$ 1,500.00	\$ 3,000.00
646-1-12-A	Aluminum Signals Pole, Pedestrian Detector Post (5.5-Ft Above Ground) without Transformer Base	10	EA	F&I	\$ 1,050.00	\$ 599.50	\$ 1,100.00	\$ 11,000.00	\$ 1,000.00	\$ 10,000.00
649-22-1	Mast Arm Assembly, Furnish and Install on Existing Foundation, Single Arm 30' (A30/S-P1/S)	10	EA	F&I	\$ 26,506.50	\$ 19,159.50	\$ 23,013.00	\$ 230,130.00	\$ 30,000.00	\$ 300,000.00
649-22-1L	Mast Arm Assembly with Street Light, Furnish and Install on Existing Foundation, Single Arm 30' (A30/S-P1/S/L)	2	EA	F&I	\$ 30,598.50	\$ 22,863.00	\$ 26,197.00	\$ 52,394.00	\$ 35,000.00	\$ 70,000.00
649-22-3	Mast Arm Assembly, Furnish and Install on Existing Foundation, Single Arm 40' (A40/S-P2/S)	6	EA	F&I	\$ 32,420.50	\$ 21,673.50	\$ 28,841.00	\$ 173,046.00	\$ 36,000.00	\$ 216,000.00
649-22-3L	Mast Arm Assembly with Street Light, Furnish and Install on Existing Foundation, Single Arm 40' (A40/S-P2/S/L)	2	EA	F&I	\$ 38,376.00	\$ 25,320.50	\$ 34,752.00	\$ 69,504.00	\$ 42,000.00	\$ 84,000.00
649-22-6	Mast Arm Assembly, Furnish and Install on Existing Foundation, Single Arm 50' (A50/S-P3/S)	10	EA	F&I	\$ 37,051.00	\$ 24,803.50	\$ 33,102.00	\$ 331,020.00	\$ 41,000.00	\$ 410,000.00
649-22-6L	Mast Arm Assembly with Street Light, Furnish and Install on Existing Foundation, Single Arm 50' (A50/S-P3/S/L)	4	EA	F&I	\$ 42,856.00	\$ 27,933.00	\$ 39,712.00	\$ 158,848.00	\$ 46,000.00	\$ 184,000.00

BID TABULATIONS ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT PBC PROJECT #2022052					Average of Bid Items for All Bidders Engineer's Estimate		Gerelco Traffic Controls, Inc		Horsepower Electric, Inc.	
Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount
649-22-10	Mast Arm Assembly, Furnish and Install on Existing Foundation, Single Arm 60' (A60/S-P4/S)	10	EA	F&I	\$ 43,353.00	\$ 29,700.50	\$ 39,706.00	\$ 397,060.00	\$ 47,000.00	\$ 470,000.00
649-22-10-HD	Mast Arm Assembly, Furnish and Install on Existing Foundation, Single Arm 60' Heavy Duty (A60/S-P4/S-HD)	6	EA	F&I	\$ 44,399.00	\$ 32,073.00	\$ 40,798.00	\$ 244,788.00	\$ 48,000.00	\$ 288,000.00
649-22-10L	Mast Arm Assembly with Street Light, Furnish and Install on Existing Foundation, Single Arm 60' (A60/S-P4/S/L)	6	EA	F&I	\$ 48,663.00	\$ 33,854.50	\$ 44,326.00	\$ 265,956.00	\$ 53,000.00	\$ 318,000.00
649-22-10L-HI	Mast Arm Assembly with Street Light, Furnish and Install on Existing Foundation, Single Arm 60' Heavy Duty (A60/S-P4/S/L-HD)	4	EA	F&I	\$ 49,859.00	\$ 34,205.00	\$ 45,718.00	\$ 182,872.00	\$ 54,000.00	\$ 216,000.00
649-22-15	Mast Arm Assembly, Furnish and Install on Existing Foundation, Single Arm 70' (A70/S-P5/S)	4	EA	F&I	\$ 50,214.00	\$ 33,158.50	\$ 45,928.00	\$ 183,712.00	\$ 54,500.00	\$ 218,000.00
649-22-15-HD	Mast Arm Assembly, Furnish and Install on Existing Foundation, Single Arm 70' Heavy Duty (A70/S-P5/S-HD)	4	EA	F&I	\$ 50,738.50	\$ 35,778.50	\$ 46,477.00	\$ 185,908.00	\$ 55,000.00	\$ 220,000.00
649-22-15L	Mast Arm Assembly with Street Light, Furnish and Install on Existing Foundation, Single Arm 70' (A70/S-P5/S/L)	5	EA	F&I	\$ 53,322.50	\$ 37,375.00	\$ 48,645.00	\$ 243,225.00	\$ 58,000.00	\$ 290,000.00
649-22-15L-HI	Mast Arm Assembly with Street Light, Furnish and Install on Existing Foundation, Single Arm 70' Heavy Duty (A70/S-P5/S/L-HD)	5	EA	F&I	\$ 54,537.00	\$ 38,045.00	\$ 50,074.00	\$ 250,370.00	\$ 59,000.00	\$ 295,000.00
649-22-21	Mast Arm Assembly, Furnish and Install on Existing Foundation, Single Arm 78' (A78/S-P6/S)	4	EA	F&I	\$ 54,879.00	\$ 37,811.00	\$ 50,758.00	\$ 203,032.00	\$ 59,000.00	\$ 236,000.00
649-22-21-HD	Mast Arm Assembly, Furnish and Install on Existing Foundation, Single Arm 78' Heavy Duty (A78/S-P6/S-HD)	4	EA	F&I	\$ 57,454.00	\$ 41,106.00	\$ 52,908.00	\$ 211,632.00	\$ 62,000.00	\$ 248,000.00
649-22-21L	Mast Arm Assembly with Street Light, Furnish and Install on Existing Foundation, Single Arm 78' (A78/S-P6/S/L)	5	EA	F&I	\$ 63,061.00	\$ 42,530.00	\$ 58,122.00	\$ 290,610.00	\$ 68,000.00	\$ 340,000.00
649-22-21L-HI	Mast Arm Assembly with Street Light, Furnish and Install on Existing Foundation, Single Arm 78' Heavy Duty (A78/S-P6/S/L-HD)	4	EA	F&I	\$ 64,485.50	\$ 45,421.00	\$ 59,971.00	\$ 239,884.00	\$ 69,000.00	\$ 276,000.00
649-2-12-40	Drilled Shaft Foundation Assembly, 12' Deep and 4.0' Diameter, Furnish and Install (DS/12/4.0)	10	EA	F&I	\$ 18,250.00	\$ 10,017.50	\$ 14,500.00	\$ 145,000.00	\$ 22,000.00	\$ 220,000.00
649-2-12-40-A	Additional Depth for Drilled Shaft Foundation Assembly, 12' Deep and 4.0' Diameter, Furnish and Install (DS/12/4.0)	5	LF	F&I	\$ 1,225.00	\$ 723.00	\$ 950.00	\$ 4,750.00	\$ 1,500.00	\$ 7,500.00
649-2-12-45	Drilled Shaft Foundation Assembly, 12' Deep and 4.5' Diameter, Furnish and Install (DS/12/4.5)	2	EA	F&I	\$ 18,500.00	\$ 10,512.00	\$ 14,500.00	\$ 29,000.00	\$ 22,500.00	\$ 45,000.00
649-2-12-45-A	Additional Depth for Drilled Shaft Foundation Assembly, 12' Deep and 4.5' Diameter, Furnish and Install (DS/12/4.5)	5	LF	F&I	\$ 1,375.00	\$ 737.50	\$ 950.00	\$ 4,750.00	\$ 1,800.00	\$ 9,000.00
649-2-14-45	Drilled Shaft Foundation Assembly, 14' Deep and 4.5' Diameter, Furnish and Install (DS/14/4.5)	4	EA	F&I	\$ 19,500.00	\$ 11,226.50	\$ 16,000.00	\$ 64,000.00	\$ 23,000.00	\$ 92,000.00
649-2-14-45-A	Additional Depth for Drilled Shaft Foundation Assembly, 14' Deep and 4.5' Diameter, Furnish and Install (DS/14/4.5)	5	LF	F&I	\$ 1,475.00	\$ 732.00	\$ 950.00	\$ 4,750.00	\$ 2,000.00	\$ 10,000.00
649-2-14-50	Drilled Shaft Foundation Assembly, 14' Deep and 5.0' Diameter, Furnish and Install (DS/14/5.0)	10	EA	F&I	\$ 20,000.00	\$ 11,933.50	\$ 16,000.00	\$ 160,000.00	\$ 24,000.00	\$ 240,000.00
649-2-14-50-A	Additional Depth for Drilled Shaft Foundation Assembly, 14' Deep and 5.0' Diameter, Furnish and Install (DS/14/5.0)	5	LF	F&I	\$ 1,575.00	\$ 753.00	\$ 950.00	\$ 4,750.00	\$ 2,200.00	\$ 11,000.00
649-2-16-45	Drilled Shaft Foundation Assembly, 16' Deep and 4.5' Diameter, Furnish and Install (DS/16/4.5)	8	EA	F&I	\$ 21,750.00	\$ 11,930.50	\$ 18,500.00	\$ 148,000.00	\$ 25,000.00	\$ 200,000.00
649-2-16-45-A	Additional Depth for Drilled Shaft Foundation Assembly, 16' Deep and 4.5' Diameter, Furnish and Install (DS/16/4.5)	11	LF	F&I	\$ 1,725.00	\$ 731.50	\$ 950.00	\$ 10,450.00	\$ 2,500.00	\$ 27,500.00

BID TABULATIONS ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT PBC PROJECT #2022052					Average of Bid Items for All Bidders		Engineer's Estimate		Gerelco Traffic Controls, Inc		Horsepower Electric, Inc.	
Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount		
649-2-16-50	Drilled Shaft Foundation Assembly, 16' Deep and 5.0' Diameter, Furnish and Install (DS/16/5.0)	2	EA	F&I	\$ 22,250.00	\$ 12,694.00	\$ 18,500.00	\$ 37,000.00	\$ 26,000.00	\$ 52,000.00		
649-2-16-50-A	Additional Depth for Drilled Shaft Foundation Assembly, 16' Deep and 5.0' Diameter, Furnish and Install (DS/16/5.0)	9	LF	F&I	\$ 1,775.00	\$ 832.00	\$ 950.00	\$ 8,550.00	\$ 2,600.00	\$ 23,400.00		
649-2-18-50	Drilled Shaft Foundation Assembly, 18' Deep and 5.0' Diameter, Furnish and Install (DS/18/5.0)	4	EA	F&I	\$ 22,750.00	\$ 13,396.50	\$ 18,500.00	\$ 74,000.00	\$ 27,000.00	\$ 108,000.00		
649-2-18-50-A	Additional Depth for Drilled Shaft Foundation Assembly, 18' Deep and 5.0' Diameter, Furnish and Install (DS/18/5.0)	5	LF	F&I	\$ 1,825.00	\$ 830.50	\$ 950.00	\$ 4,750.00	\$ 2,700.00	\$ 13,500.00		
649-2-20-50	Drilled Shaft Foundation Assembly, 20' Deep and 5.0' Diameter, Furnish and Install (DS/20/5.0)	2	EA	F&I	\$ 24,000.00	\$ 14,742.50	\$ 20,000.00	\$ 40,000.00	\$ 28,000.00	\$ 56,000.00		
649-2-20-50-A	Additional Depth for Drilled Shaft Foundation Assembly, 20' Deep and 5.0' Diameter, Furnish and Install (DS/20/5.0)	2	LF	F&I	\$ 1,875.00	\$ 828.50	\$ 950.00	\$ 1,900.00	\$ 2,800.00	\$ 5,600.00		
649-2-RA-11	Furnish and Install Additional Weight of Rebar for for Non-Standard Drill Shaft Foundation as Directed by the Engineer	50	LBS	F&I	\$ 56.00	\$ 2.78	\$ 100.00	\$ 5,000.00	\$ 12.00	\$ 600.00		
649-23-11	Steel Mast Arm Assembly, Install to Existing Foundation	1	EA	I	\$ 6,375.00	\$ 2,435.00	\$ 4,250.00	\$ 4,250.00	\$ 8,500.00	\$ 8,500.00		
649-23-21	Steel Mast Arm Assembly, Relocate to Existing Foundation	1	EA	R&I	\$ 7,750.00	\$ 3,552.00	\$ 5,500.00	\$ 5,500.00	\$ 10,000.00	\$ 10,000.00		
649-25-03	Steel Mast Arm Assembly, Replace Arm on Existing Pole, 40'	1	EA	R&I	\$ 4,500.00	\$ 7,338.00	\$ 4,000.00	\$ 4,000.00	\$ 5,000.00	\$ 5,000.00		
649-25-06	Steel Mast Arm Assembly, Replace Arm on Existing Pole, 50'	1	EA	R&I	\$ 5,500.00	\$ 8,750.00	\$ 4,000.00	\$ 4,000.00	\$ 7,000.00	\$ 7,000.00		
649-25-10	Steel Mast Arm Assembly, Replace Arm on Existing Pole, 60'	1	EA	R&I	\$ 6,750.00	\$ 9,625.00	\$ 4,500.00	\$ 4,500.00	\$ 9,000.00	\$ 9,000.00		
649-25-15	Steel Mast Arm Assembly, Replace Arm on Existing Pole, 70'	1	EA	R&I	\$ 7,750.00	\$ 11,000.00	\$ 4,500.00	\$ 4,500.00	\$ 11,000.00	\$ 11,000.00		
649-25-21	Steel Mast Arm Assembly, Replace Arm on Existing Pole, 78'	1	EA	R&I	\$ 9,000.00	\$ 12,500.00	\$ 5,000.00	\$ 5,000.00	\$ 13,000.00	\$ 13,000.00		
649-26-01	Steel Mast Arm Assembly, Remove, Pole Only-Entire Foundation Remains	1	EA	R	\$ 3,300.00	\$ 2,694.00	\$ 4,200.00	\$ 4,200.00	\$ 2,400.00	\$ 2,400.00		
649-26-03	Steel Mast Arm Assembly, Remove, Shallow Foundation-Bolt on Attachment	1	EA	R	\$ 4,200.00	\$ 4,989.00	\$ 3,600.00	\$ 3,600.00	\$ 4,800.00	\$ 4,800.00		
649-26-05	Steel Mast Arm Assembly, Remove, Deep Foundation-Bolt on Attachment	1	EA	R	\$ 8,000.00	\$ 11,750.00	\$ 8,500.00	\$ 8,500.00	\$ 7,500.00	\$ 7,500.00		
649-26-07	Steel Mast Arm Assembly, Remove, Arm and Attachments; Pole Remains	1	EA	R	\$ 2,750.00	\$ 1,960.50	\$ 3,100.00	\$ 3,100.00	\$ 2,400.00	\$ 2,400.00		
649-28-02	Painting New Mast Arm Assembly, Manufacturer Applied Powder Coating	1	EA	F&I	\$ 9,750.00	\$ 5,000.00	\$ 4,500.00	\$ 4,500.00	\$ 15,000.00	\$ 15,000.00		
649-40-000-A	Mast Arm Repair (Shorten and Cap Upright)	1	EA	F&I	\$ 3,500.00	\$ 1,247.50	\$ 2,500.00	\$ 2,500.00	\$ 4,500.00	\$ 4,500.00		
649-40-000-B	Mast Arm Repair (Shorten and Cap Arm)	1	EA	F&I	\$ 3,000.00	\$ 981.50	\$ 2,500.00	\$ 2,500.00	\$ 3,500.00	\$ 3,500.00		
649-40-000-C	Raise Mast Arm Foundation (Raise Foundation)	1	EA	F&I	\$ 9,200.00	\$ 4,654.50	\$ 8,400.00	\$ 8,400.00	\$ 10,000.00	\$ 10,000.00		
649-40-000-D	Mast Arm Nut Cover	2	EA	F&I	\$ 350.00	\$ 225.00	\$ 350.00	\$ 700.00	\$ 350.00	\$ 700.00		
649-40-000-E	Additional Depth for Mast Arm Assembly Foundation (When Specified by Engineer)	2	LF	F&I	\$ 2,250.00	\$ 1,222.50	\$ 1,500.00	\$ 3,000.00	\$ 3,000.00	\$ 6,000.00		
649-40-000-F	Repair Existing Damaged Mast Arm Foundation	1	EA	F&I	\$ 7,875.00	\$ 4,189.00	\$ 14,500.00	\$ 14,500.00	\$ 1,250.00	\$ 1,250.00		

BID TABULATIONS ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT PBC PROJECT #2022052					Average of Bid Items for All Bidders		Engineer's Estimate		Gerelco Traffic Controls, Inc		Horsepower Electric, Inc.	
Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount		
649-40-000-L	Mast Arm Terminal/ Hand Hole Cover	2	EA	F&I	\$ 475.00	\$ 266.00	\$ 600.00	\$ 1,200.00	\$ 350.00	\$ 700.00		
649-40-000-M	Provide Telescopic Lift for Mast Arm Installation (Per Intersection Project)	2	EA	F&I	\$ 4,550.00	\$ 2,275.00	\$ 3,500.00	\$ 7,000.00	\$ 5,600.00	\$ 11,200.00		
649-40-2	Steel Mast Arm Assembly, Replace Hand Hole Cover on Existing Pole	2	EA	R&I	\$ 350.00	\$ 250.00	\$ 600.00	\$ 1,200.00	\$ 100.00	\$ 200.00		
649-40-3	Steel Mast Arm Assembly, Replace Pole Cap on Existing Pole	2	EA	R&I	\$ 387.50	\$ 377.50	\$ 600.00	\$ 1,200.00	\$ 175.00	\$ 350.00		
649-99-1	Terminal Block in Mast Arm Upright	14	EA	F&I	\$ 325.00	\$ 300.00	\$ 150.00	\$ 2,100.00	\$ 500.00	\$ 7,000.00		
649-99-2	Terminal Block in Mast Arm Upright-Remove Existing	14	EA	R	\$ 87.50	\$ 100.00	\$ 150.00	\$ 2,100.00	\$ 25.00	\$ 350.00		
650-1-13	Traffic Signal Head Aluminum (3-Section, 1-Way) Includes Backplates	320	AS	F&I	\$ 1,450.00	\$ 954.50	\$ 1,100.00	\$ 352,000.00	\$ 1,800.00	\$ 576,000.00		
650-1-14	Traffic Signal Head Aluminum (4-Section, 1-Way) Includes Backplates	20	AS	F&I	\$ 1,635.00	\$ 1,145.00	\$ 1,350.00	\$ 27,000.00	\$ 1,920.00	\$ 38,400.00		
650-1-15	Traffic Signal Head Aluminum (5-Section, 1-Way) Includes Backplates	30	AS	F&I	\$ 1,965.00	\$ 1,524.50	\$ 1,650.00	\$ 49,500.00	\$ 2,280.00	\$ 68,400.00		
650-1-16	Traffic Signal Head Aluminum (3-Section, 2-Way) Includes Backplates	10	AS	F&I	\$ 2,050.00	\$ 1,422.50	\$ 2,000.00	\$ 20,000.00	\$ 2,100.00	\$ 21,000.00		
650-1-24	Traffic Signal Head Polycarbonate with Aluminum top Section (4-Section, 1-Way) Includes Backplates	8	AS	F&I	\$ 1,575.00	\$ 1,138.00	\$ 1,350.00	\$ 10,800.00	\$ 1,800.00	\$ 14,400.00		
650-1-25	Traffic Signal Head Polycarbonate with Aluminum top Section (5-Section, 1-Way) Includes Backplates	10	AS	F&I	\$ 1,925.00	\$ 2,036.50	\$ 1,650.00	\$ 16,500.00	\$ 2,200.00	\$ 22,000.00		
650-1-33	Traffic Signal Head Polycarbonate (3-Section, 1-Way) Includes Backplates	10	AS	F&I	\$ 1,400.00	\$ 905.50	\$ 1,100.00	\$ 11,000.00	\$ 1,700.00	\$ 17,000.00		
650-1-53	Traffic Signal Head (3-Section, 1-Way) Install Only	8	AS	I	\$ 925.00	\$ 441.50	\$ 850.00	\$ 6,800.00	\$ 1,000.00	\$ 8,000.00		
650-1-54	Traffic Signal Head Aluminum (4-Section, 1-Way) Install Only	4	AS	I	\$ 950.00	\$ 441.50	\$ 850.00	\$ 3,400.00	\$ 1,050.00	\$ 4,200.00		
650-1-55	Traffic Signal Head (5-Section, 1-Way) Install Only	1	AS	I	\$ 975.00	\$ 558.00	\$ 850.00	\$ 850.00	\$ 1,100.00	\$ 1,100.00		
650-1-60	Traffic Signal Head Assembly, Removal	144	EA	R	\$ 47.50	\$ 91.00	\$ 45.00	\$ 6,480.00	\$ 50.00	\$ 7,200.00		
653-191	Pedestrian Signal - Count Down (1-Way) Aluminum	94	EA	F&I	\$ 1,120.00	\$ 677.00	\$ 800.00	\$ 75,200.00	\$ 1,440.00	\$ 135,360.00		
653-192	Pedestrian Signal - Count Down (2-Way) Aluminum	26	EA	F&I	\$ 1,677.50	\$ 1,199.00	\$ 1,315.00	\$ 34,190.00	\$ 2,040.00	\$ 53,040.00		
653-1-60	Pedestrian Signal, Remove Ped Signal	20	EA	R	\$ 57.50	\$ 162.00	\$ 85.00	\$ 1,700.00	\$ 30.00	\$ 600.00		
654-2-11	Rectangular Rapid Flashing Beacon, AC Powered, Single Direction	2	AS	F&I	\$ 9,325.00	\$ 7,065.00	\$ 8,650.00	\$ 17,300.00	\$ 10,000.00	\$ 20,000.00		
654-2-12	Rectangular Rapid Flashing Beacon, AC Powered, Back to Back	2	AS	F&I	\$ 9,875.00	\$ 8,404.00	\$ 8,750.00	\$ 17,500.00	\$ 11,000.00	\$ 22,000.00		
654-2-21	Rectangular Rapid Flashing Beacon, Solar Powered, Single Direction	2	AS	F&I	\$ 10,325.00	\$ 6,620.00	\$ 8,650.00	\$ 17,300.00	\$ 12,000.00	\$ 24,000.00		
654-2-22	Rectangular Rapid Flashing Beacon, Solar Powered, Back to Back	3	AS	F&I	\$ 10,875.00	\$ 7,670.00	\$ 8,750.00	\$ 26,250.00	\$ 13,000.00	\$ 39,000.00		
654-2-60	Rectangular Rapid Flashing Beacon, Remove Complete Sign Assembly	3	AS	R	\$ 925.00	\$ 965.50	\$ 1,250.00	\$ 3,750.00	\$ 600.00	\$ 1,800.00		
660-2-102	Loop Assembly 6'X6' (Type B)	20	EA	F&I	\$ 1,030.00	\$ 609.50	\$ 1,100.00	\$ 22,000.00	\$ 960.00	\$ 19,200.00		
660-2-106-A	Loop Assembly (Type F - 26')	60	EA	F&I	\$ 1,900.00	\$ 875.00	\$ 2,000.00	\$ 120,000.00	\$ 1,800.00	\$ 108,000.00		

BID TABULATIONS ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT PBC PROJECT #2022052					Average of Bid Items for All Bidders Engineer's Estimate		Gerelco Traffic Controls, Inc		Horsepower Electric, Inc.	
Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount
660-2-106-B	Loop Assembly (Type F - 46')	48	EA	F&I	\$ 2,225.00	\$ 1,212.50	\$ 2,450.00	\$ 117,600.00	\$ 2,000.00	\$ 96,000.00
660-3-60	Vehicle Detection System-Microwave, Remove	1	EA	R	\$ 750.00	\$ 949.50	\$ 1,250.00	\$ 1,250.00	\$ 250.00	\$ 250.00
660-4-10-B1	Video Image Detection 1 - Camera System (Iteris) Complete	1	EA	F&I	\$ 16,500.00	\$ 10,270.50	\$ 13,000.00	\$ 13,000.00	\$ 20,000.00	\$ 20,000.00
660-4-10-B2	Video Image Detection 2 - Camera System (Iteris) Complete	1	EA	F&I	\$ 20,250.00	\$ 19,000.00	\$ 15,500.00	\$ 15,500.00	\$ 25,000.00	\$ 25,000.00
660-4-10-B3	Video Image Detection 3 - Camera System (Iteris) Complete	1	EA	F&I	\$ 30,200.00	\$ 20,889.00	\$ 28,000.00	\$ 28,000.00	\$ 32,400.00	\$ 32,400.00
660-4-10-B4	Video Image Detection 4 - Camera System (Iteris) Complete	2	EA	F&I	\$ 37,000.00	\$ 29,699.50	\$ 32,000.00	\$ 64,000.00	\$ 42,000.00	\$ 84,000.00
660-4-30-B1	Video Image Detection 1 - Camera System (Iteris)	6	EA	I	\$ 4,000.00	\$ 1,100.00	\$ 3,000.00	\$ 18,000.00	\$ 5,000.00	\$ 30,000.00
660-4-30-B2	Video Image Detection 2 - Camera System (Iteris)	2	EA	I	\$ 6,750.00	\$ 5,000.00	\$ 3,500.00	\$ 7,000.00	\$ 10,000.00	\$ 20,000.00
660-4-30-B3	Video Image Detection 3 - Camera System (Iteris)	2	EA	I	\$ 9,750.00	\$ 3,300.00	\$ 4,500.00	\$ 9,000.00	\$ 15,000.00	\$ 30,000.00
660-4-30-B4	Video Image Detection 4 - Camera System (Iteris)	2	EA	I	\$ 12,000.00	\$ 4,215.00	\$ 6,000.00	\$ 12,000.00	\$ 18,000.00	\$ 36,000.00
660-4-60	Vehicle Detection System-Video, Remove	4	EA	R	\$ 753.50	\$ 774.50	\$ 1,257.00	\$ 5,028.00	\$ 250.00	\$ 1,000.00
660-5-30	Wireless Magnetometer Vehicle Detector Assembly Complete Assembly	3	AS	I	\$ 3,000.00	\$ 2,500.00	\$ 3,500.00	\$ 10,500.00	\$ 2,500.00	\$ 7,500.00
660-6-121	Vehicle Detection System - AVI Bluetooth- Cabinet Processing Equipment	2	AS	F&I	\$ 5,332.50	\$ 1,078.00	\$ 8,165.00	\$ 16,330.00	\$ 2,500.00	\$ 5,000.00
660-6-122	Vehicle Detection System - AVI Bluetooth- Above Ground Equipment - Antennas	2	AS	F&I	\$ 5,615.00	\$ 9,191.00	\$ 2,730.00	\$ 5,460.00	\$ 8,500.00	\$ 17,000.00
665-1-11	Pedestrian Detector (Push Button)	20	EA	F&I	\$ 300.00	\$ 150.00	\$ 250.00	\$ 5,000.00	\$ 350.00	\$ 7,000.00
665-1-31	Pedestrian Detector (Push Button) - Install Only	120	EA	I	\$ 175.00	\$ 180.00	\$ 200.00	\$ 24,000.00	\$ 150.00	\$ 18,000.00
665-1-12-A	Pedestrian Detector- Accessible - Cabinet Equipment - Cabinet interface Hardware	2	EA	F&I	\$ 2,600.00	\$ 3,501.50	\$ 2,200.00	\$ 4,400.00	\$ 3,000.00	\$ 6,000.00
665-1-12-B	Pedestrian Detector Assembly- Accessible one-Crossing (2-Push Button Assemblies Per Crossing) Push Button Only	16	EA	F&I	\$ 1,025.00	\$ 1,490.50	\$ 250.00	\$ 4,000.00	\$ 1,800.00	\$ 28,800.00
670-5-110-A	Traffic Controller Assembly (Type 5) as Per Naztec	1	AS	F&I	\$ 34,500.00	\$ 27,286.00	\$ 31,000.00	\$ 31,000.00	\$ 38,000.00	\$ 38,000.00
670-5-110-B	Traffic Controller Assembly (Type 6) as Per Naztec	2	AS	F&I	\$ 36,750.00	\$ 27,692.50	\$ 34,500.00	\$ 69,000.00	\$ 39,000.00	\$ 78,000.00
670-5-110-C	Traffic Controller Assembly (Type 4) as Per Naztec	1	AS	F&I	\$ 27,500.00	\$ 25,000.00	\$ 22,000.00	\$ 22,000.00	\$ 33,000.00	\$ 33,000.00
670-5-110-D1	Traffic Controller Assembly (ATC) Dual Single Door as Per Naztec	1	AS	F&I	\$ 62,500.00	\$ 60,000.00	\$ 60,000.00	\$ 60,000.00	\$ 65,000.00	\$ 65,000.00
670-5-110-D2	Traffic Controller Assembly (ATC) Dual Double Door as Per Naztec	1	AS	F&I	\$ 65,750.00	\$ 60,000.00	\$ 61,500.00	\$ 61,500.00	\$ 70,000.00	\$ 70,000.00
670-5-310-A	Traffic Controller Assembly (Type 4, 5, 6 - Install Only)	12	AS	I	\$ 10,750.00	\$ 4,500.00	\$ 9,500.00	\$ 114,000.00	\$ 12,000.00	\$ 144,000.00
670-5-310-B	Traffic Controller Assembly (ATC Single Door - Install Only)	1	AS	I	\$ 12,250.00	\$ 12,000.00	\$ 9,500.00	\$ 9,500.00	\$ 15,000.00	\$ 15,000.00
670-5-310-C	Traffic Controller Assembly (ATC Double Door - Install Only)	1	AS	I	\$ 12,750.00	\$ 12,000.00	\$ 9,500.00	\$ 9,500.00	\$ 16,000.00	\$ 16,000.00
670-5-600	Traffic Controller Assembly, Remove Controller with Cabinet	2	AS	I	\$ 1,500.00	\$ 1,023.50	\$ 2,500.00	\$ 5,000.00	\$ 500.00	\$ 1,000.00

BID TABULATIONS ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT PBC PROJECT #2022052					Average of Bid Items for All Bidders Engineer's Estimate		Gerelco Traffic Controls, Inc		Horsepower Electric, Inc.	
Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount
682-1-13	Its CCTV Camera, Dome Enclosure Non-Pressurized	1	EA	F&I	\$ 8,250.00	\$ 6,962.00	\$ 8,500.00	\$ 8,500.00	\$ 8,000.00	\$ 8,000.00
682-1-33	Its CCTV Camera, Dome Enclosure Non-Pressurized (Install Only)	1	EA	I	\$ 3,250.00	\$ 1,684.50	\$ 3,500.00	\$ 3,500.00	\$ 3,000.00	\$ 3,000.00
690-100	Remove Miscellaneous Signal Equipment	40	HR	R	\$ 125.00	\$ 181.50	\$ 100.00	\$ 4,000.00	\$ 150.00	\$ 6,000.00
690-15	Remove internally Illuminated Sign	8	EA	R	\$ 350.00	\$ 212.50	\$ 350.00	\$ 2,800.00	\$ 350.00	\$ 2,800.00
690-20	Signal Pedestrian Head Assembly, Removal	70	EA	R	\$ 225.00	\$ 69.50	\$ 350.00	\$ 24,500.00	\$ 100.00	\$ 7,000.00
690-31-1	Signal Pedestal, Remove	16	EA	R	\$ 250.00	\$ 104.00	\$ 350.00	\$ 5,600.00	\$ 150.00	\$ 2,400.00
690-34-2C	Remove Pole Wood	8	EA	R	\$ 705.00	\$ 391.50	\$ 1,160.00	\$ 9,280.00	\$ 250.00	\$ 2,000.00
690-50-0	Remove Controller Assembly Complete with Foundation - Includes Delivery of Removed Controller Equipment	2	EA	R	\$ 1,625.00	\$ 1,100.00	\$ 2,500.00	\$ 5,000.00	\$ 750.00	\$ 1,500.00
690-50-1	Remove Controller Assembly, Leave Foundation in Place - Includes Delivery of Removed Equipment	2	EA	R	\$ 1,425.00	\$ 500.00	\$ 2,350.00	\$ 4,700.00	\$ 500.00	\$ 1,000.00
690-70	Remove Pedestrian Detector Assembly	96	EA	R	\$ 20.00	\$ 49.78	\$ 15.00	\$ 1,440.00	\$ 25.00	\$ 2,400.00
690-80	Remove Span Wire Assembly	18	PI	R	\$ 675.00	\$ 1,361.00	\$ 350.00	\$ 6,300.00	\$ 1,000.00	\$ 18,000.00
690-90	Remove Cabling and Conduit	824	LF	R	\$ 0.10	\$ 1.25	\$ 0.10	\$ 82.40	\$ 0.10	\$ 82.40
690-90-1	Remove Cable, Underground	1800	LF	R	\$ 0.10	\$ 1.31	\$ 0.10	\$ 180.00	\$ 0.10	\$ 180.00
690-91	Remove Signal interconnect Cable	200	LF	R	\$ 0.10	\$ 0.69	\$ 0.10	\$ 20.00	\$ 0.10	\$ 20.00
690-92	Remove Existing Signal interconnect Cable Aerial (including Spanwire)	100	LF	R	\$ 0.55	\$ 1.59	\$ 0.10	\$ 10.00	\$ 1.00	\$ 100.00
690-93	Remove Small Pull Box - Up to 17 x 30	10	EA	R	\$ 375.00	\$ 115.00	\$ 150.00	\$ 1,500.00	\$ 600.00	\$ 6,000.00
690-94	Remove Large Pull Box - Up to 30 x 60	2	EA	R	\$ 520.00	\$ 232.50	\$ 200.00	\$ 400.00	\$ 840.00	\$ 1,680.00
700-12-12	Ground Mount AC-Powered Sign Beacon (Two Beacons)-including School Zone Flashers	2	AS	F&I	\$ 10,750.00	\$ 6,191.00	\$ 9,500.00	\$ 19,000.00	\$ 12,000.00	\$ 24,000.00
700-12-22	Ground Mount Solar-Powered Sign Beacon (Two Beacons) - including School Zone Flashers	3	AS	F&I	\$ 12,250.00	\$ 7,877.50	\$ 9,500.00	\$ 28,500.00	\$ 15,000.00	\$ 45,000.00
700-12-32-1	Overhead Mount AC-Powered Sign Beacon (Two Beacons) - including School Zone Flashers	2	AS	F&I	\$ 9,750.00	\$ 7,229.50	\$ 9,500.00	\$ 19,000.00	\$ 10,000.00	\$ 20,000.00
700-12-32-2	Overhead Mount Solar-Powered Sign Beacon (Two Beacons) - including School Zone Flashers	2	AS	F&I	\$ 10,750.00	\$ 7,950.00	\$ 9,500.00	\$ 19,000.00	\$ 12,000.00	\$ 24,000.00
700-3-2-04	Overhead Sign Panel - 31 to 50 Square Feet	10	EA	F&I	\$ 1,675.00	\$ 1,295.00	\$ 1,350.00	\$ 13,500.00	\$ 2,000.00	\$ 20,000.00
700-5-21	Internally Illuminated Sign (6') Fluorescent	4	EA	F&I	\$ 2,725.00	\$ 2,678.50	\$ 1,850.00	\$ 7,400.00	\$ 3,600.00	\$ 14,400.00
700-5-22	Internally Illuminated Sign (8') Fluorescent	8	EA	F&I	\$ 3,175.00	\$ 2,761.00	\$ 2,150.00	\$ 17,200.00	\$ 4,200.00	\$ 33,600.00
700-5-41	Internally Illuminated Sign (6') Install Only	6	EA	I	\$ 1,000.00	\$ 722.50	\$ 500.00	\$ 3,000.00	\$ 1,500.00	\$ 9,000.00
700-5-42	Internally Illuminated Sign (8') Install Only	52	EA	I	\$ 1,150.00	\$ 722.50	\$ 500.00	\$ 26,000.00	\$ 1,800.00	\$ 93,600.00

BID TABULATIONS ANNUAL TRAFFIC SIGNAL CONSTRUCTION CONTRACT PBC PROJECT #2022052					Average of Bid Items for All Bidders		Engineer's Estimate Gerelco Traffic Controls, Inc		Horsepower Electric, Inc.	
Item #	Item Description	Qty.	Units	F,I,R	Unit Price	Unit Price	Unit Price	Amount	Unit Price	Amount
700-6-13	LED Blank-Out Sign (30" x 30")	1	EA	F&I	\$ 5,500.00	\$ 4,373.00	\$ 4,500.00	\$ 4,500.00	\$ 6,500.00	\$ 6,500.00
700-6-21	Highlighted Sign Ground Mounted (Solar Powered) - Up to 12 Sq Ft	2	EA	F&I	\$ 6,000.00	\$ 4,565.50	\$ 6,500.00	\$ 13,000.00	\$ 5,500.00	\$ 11,000.00
700-6-22	Highlighted Sign Ground Mounted (Solar Powered) - 12-20 Sq Ft	2	EA	F&I	\$ 7,000.00	\$ 5,050.00	\$ 6,500.00	\$ 13,000.00	\$ 7,500.00	\$ 15,000.00
715-11-500	Luminaire, Remove	5	EA	R	\$ 725.00	\$ 325.00	\$ 1,300.00	\$ 6,500.00	\$ 150.00	\$ 750.00
715-1-12	Conductor (No. 8 to No. 6)	1500	LF	F&I	\$ 3.55	\$ 1.80	\$ 3.50	\$ 5,250.00	\$ 3.60	\$ 5,400.00
715-1-13	Conductor (No. 4 to No. 2)	100	LF	F&I	\$ 4.40	\$ 3.28	\$ 3.80	\$ 380.00	\$ 5.00	\$ 500.00
715-21-2	Lighting Retrofits, LED Retrofit Kit for Existing Luminaires	54	EA	F&I	\$ 1,425.00	\$ 815.50	\$ 1,350.00	\$ 72,900.00	\$ 1,500.00	\$ 81,000.00
715-4-13	Standard Pole, Standard Foundation (40' Mounting Height)	1	EA	F&I	\$ 8,250.00	\$ 8,000.00	\$ 6,500.00	\$ 6,500.00	\$ 10,000.00	\$ 10,000.00
715-5-11(A)	Luminaire & Bracket Arm Aluminum (8')	30	EA	F&I	\$ 1,425.00	\$ 1,120.50	\$ 1,350.00	\$ 40,500.00	\$ 1,500.00	\$ 45,000.00
715-5-11(B)	Luminaire & Bracket Arm Aluminum (12' w/36"Rise)	2	EA	F&I	\$ 1,675.00	\$ 1,312.00	\$ 1,350.00	\$ 2,700.00	\$ 2,000.00	\$ 4,000.00
715-5-11(C)	Luminaire & Bracket Arm Aluminum (15' w/36"Rise)	1	EA	F&I	\$ 1,925.00	\$ 1,420.00	\$ 1,350.00	\$ 1,350.00	\$ 2,500.00	\$ 2,500.00
715-5-31-A	Luminaire & Bracket Arm Aluminum (8' w/36"Rise)-Install Only	1	EA	I	\$ 525.00	\$ 737.50	\$ 550.00	\$ 550.00	\$ 500.00	\$ 500.00
715-5-31-B	Luminaire & Bracket Arm Aluminum (12' w/36"Rise)-Install Only	1	EA	I	\$ 575.00	\$ 771.00	\$ 550.00	\$ 550.00	\$ 600.00	\$ 600.00
715-5-31-B1	Luminaire & Bracket Arm Aluminum (12' w/84"Rise) -Install Only	3	EA	I	\$ 625.00	\$ 803.50	\$ 550.00	\$ 1,650.00	\$ 700.00	\$ 2,100.00
715-5-31-C	Luminaire & Bracket Arm Aluminum (15' w/36"Rise)-Install Only	3	EA	I	\$ 675.00	\$ 837.00	\$ 550.00	\$ 1,650.00	\$ 800.00	\$ 2,400.00
715-5-31-C1	Luminaire & Bracket Arm Aluminum (15' w/84"Rise)-Install Only	2	EA	I	\$ 725.00	\$ 837.00	\$ 550.00	\$ 1,100.00	\$ 900.00	\$ 1,800.00
715-5-32	Luminaire and Bracket Arm - Galv Steel	10	EA	F&I	\$ 2,425.00	\$ 2,000.00	\$ 1,350.00	\$ 13,500.00	\$ 3,500.00	\$ 35,000.00
715-5-51	Luminaire and Bracket Arm - Remove	10	EA	R	\$ 325.00	\$ 300.00	\$ 550.00	\$ 5,500.00	\$ 100.00	\$ 1,000.00
715-11-211-L1	Furnish and Install 175 Watt LED Cobrahead Luminaire	50	EA	F&I	\$ 925.00	\$ 900.00	\$ 650.00	\$ 32,500.00	\$ 1,200.00	\$ 60,000.00
715-11-211-L2	Furnish and Install 263 Watt Cobrahead LED Luminaire	400	EA	F&I	\$ 950.00	\$ 900.00	\$ 650.00	\$ 260,000.00	\$ 1,250.00	\$ 500,000.00
715-11-500	Remove Luminaire Roadway (All Types)	5	EA	R	\$ 150.00	\$ 200.00	\$ 200.00	\$ 1,000.00	\$ 100.00	\$ 500.00
TOTAL BID							\$ 10,502,074.40		\$ 13,404,295.00	

THE COUNTY DOES NOT GUARANTEE THE ACCURACY OF THE FORMULAS AND EXTENSIONS USED IN THIS SPREADSHEET.

THE ITEMS AND QUANTITIES ABOVE, SHALL GOVERN OVER THE PLANS.

PAY ITEM FOOTNOTES IN CONSTRUCTION PLANS SHALL ALSO BE INCLUDED IN ITEM UNIT PRICE.

Note #	PAY ITEM FOOTNOTES
1	All costs for Maintenance of Traffic (MOT) and mobilization not included in items 102-1-A through 102-99 per the special bid item notes in the TSP's shall be considered incidental to, and shall be included in, unit prices for the pay items.
2	All items shall include cost to furnish and install unless otherwise noted.
3	Mobilization: Includes NPDES Erosion Control Measures.
4	Maintenance of Traffic: Includes all provision and maintenance of necessary signs, advanced warning, variable message boards, all detour signs and barricades, and any railroad MOT required for the duration of the project. MOT shall include the cost of any temporary pavement, temporary concrete barriers, temporary wire faced wall, etc. as required.
5	Curb and gutter shall be incidental when related to ADA ramp applications.
6	Clearing and grubbing to include all necessary curb and gutter and sidewalk removal.
7	Definitions:
	LF - Linear Feet
	SF - Square Feet
	SY - Square Yard
	AS - Assembly
	PI - Per Intersection
	EA - Each
	HR - Per Hour
MH - Man Hour	
	ED - Each Day
	WK - Per Week
	LS - Lump Sum (Complete)
	F&I - Furnish & Install
	F - Furnish Only
	I - Install Only
	R - Remove

Bids as read at opening on March 15, 2022, 2:00 PM

All bids subject to OEBO compliance and Board Approval.

Prepared by: Geraldine Lazzarino-Kelly, Technical Assistant 1

Checked by: Holly B. Knight, P.E., Contracts Section Manager

Contract Time is 3 Years