

TABULATION OF BIDS

|                  |                                                                                                                              |                                                                        |       |                     |           |                       |               |                            |               |                                                                         |              |
|------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------|---------------------|-----------|-----------------------|---------------|----------------------------|---------------|-------------------------------------------------------------------------|--------------|
| PROJECT:         | Vineyard Boulevard Installation of Traffic Signals at River Street                                                           |                                                                        |       |                     |           | JACK ENDO<br>ELECTRIC |               | PAUL'S ELECTRIC<br>COMPANY |               | STATE OF HAWAII<br>DEPARTMENT OF<br>TRANSPORTATION<br>HIGHWAYS DIVISION |              |
| PROJECT NO.:     | 98A-01-15                                                                                                                    |                                                                        |       |                     |           |                       |               |                            |               |                                                                         |              |
| NET LENGTH:      | 0.15 Miles                                                                                                                   |                                                                        |       |                     |           |                       |               |                            |               |                                                                         |              |
| ISLAND:          | Oahu                                                                                                                         |                                                                        |       |                     |           |                       |               |                            |               |                                                                         |              |
| DISTRICT:        | Honolulu                                                                                                                     |                                                                        |       |                     |           |                       |               |                            |               |                                                                         |              |
| DATE ADVERTISED: | October 10, 2017                                                                                                             | ** NOTE: Quantities<br>shown in these columns are<br>for in-house use. |       |                     |           |                       |               |                            |               |                                                                         |              |
| BID OPENED:      | November 09, 2017                                                                                                            |                                                                        |       |                     |           |                       |               |                            |               |                                                                         |              |
| COMPLETION TIME: | One Hundred and Twenty (120) Working Days                                                                                    |                                                                        |       |                     |           |                       |               |                            |               |                                                                         |              |
| ITEM NO.         | ITEM                                                                                                                         | **APPROX.<br>QUANTITY                                                  | UNITS | APPROX.<br>QUANTITY | UNIT USED | UNIT PRICE            | AMOUNT        | UNIT PRICE                 | AMOUNT        | UNIT PRICE                                                              | AMOUNT       |
| 202.1000         | General Demolition and Removal of Structures and Obstructions                                                                | 2000                                                                   | SF    | L.S.                | L.S.      | L.S.                  | \$ 18,000.00  | L.S.                       | \$ 15,000.00  | L.S.                                                                    | \$ 15,000.00 |
| 203.1000         | Grading (Excavation/Embankment)                                                                                              | 30                                                                     | CY    | L.S.                | L.S.      | L.S.                  | \$ 18,000.00  | L.S.                       | \$ 50,000.00  | L.S.                                                                    | \$ 25,000.00 |
| 209.0100         | Installation, Maintenance, Monitoring, and Removal of BMP                                                                    | L.S.                                                                   | L.S.  | L.S.                | L.S.      | L.S.                  | \$ 5,000.00   | L.S.                       | \$ 20,000.00  | L.S.                                                                    | \$ 25,000.00 |
| 209.2000         | Additional Water Pollution, Dust, and Erosion Control                                                                        | F.A.                                                                   | F.A.  | F.A.                | F.A.      | F.A.                  | \$ 8,000.00   | F.A.                       | \$ 8,000.00   | F.A.                                                                    | \$ 8,000.00  |
| 212.1000         | Archaeological Monitoring                                                                                                    | F.A.                                                                   | F.A.  | F.A.                | F.A.      | F.A.                  | \$ 20,000.00  | F.A.                       | \$ 20,000.00  | F.A.                                                                    | \$ 20,000.00 |
| 301.1000         | Hot Mix Asphalt Base Course                                                                                                  | 35                                                                     | CY    | L.S.                | L.S.      | L.S.                  | \$ 22,000.00  | L.S.                       | \$ 25,000.00  | L.S.                                                                    | \$ 5,600.00  |
| 401.1000         | HMS Pavement, Mix No. IV                                                                                                     | 30                                                                     | TN    | L.S.                | L.S.      | L.S.                  | \$ 13,000.00  | L.S.                       | \$ 20,000.00  | L.S.                                                                    | \$ 15,200.00 |
| 623.2000         | Furnish and Install Controller Assembly (Model 170E Traffic Signal Controll Unit, Type 332A Cabinet and Auxiliary Equipment) | 1                                                                      | EACH  | 1                   | EACH      | \$ 26,200.00          | \$ 26,200.00  | \$ 25,000.00               | \$ 25,000.00  | \$ 25,000.00                                                            | \$ 25,000.00 |
| 623.2100         | Type I Traffic Signal Standard, H=8FT                                                                                        | 3                                                                      | EACH  | 3                   | EACH      | \$ 1,200.00           | \$ 3,600.00   | \$ 2,500.00                | \$ 7,500.00   | \$ 1,500.00                                                             | \$ 4,500.00  |
| 623.2210         | Type II Traffic Signal Standard with 45-Foot Mast Arm                                                                        | 1                                                                      | EACH  | 1                   | EACH      | \$ 20,300.00          | \$ 20,300.00  | \$ 25,000.00               | \$ 25,000.00  | \$ 15,000.00                                                            | \$ 15,000.00 |
| 623.2220         | Type II Traffic Signal Standard with 49-Foot Mast Arm                                                                        | 1                                                                      | EACH  | 1                   | EACH      | \$ 22,000.00          | \$ 22,000.00  | \$ 27,000.00               | \$ 27,000.00  | \$ 15,000.00                                                            | \$ 15,000.00 |
| 623.2400         | Foundation for Type I Signal Standard                                                                                        | 3                                                                      | EACH  | 3                   | EACH      | \$ 1,000.00           | \$ 3,000.00   | \$ 2,500.00                | \$ 7,500.00   | \$ 1,000.00                                                             | \$ 3,000.00  |
| 623.2500         | Foundation for Type II Signal Standard                                                                                       | 2                                                                      | EACH  | 2                   | EACH      | \$ 68,000.00          | \$ 136,000.00 | \$ 86,000.00               | \$ 172,000.00 | \$ 5,500.00                                                             | \$ 11,000.00 |
| 623.2700         | Foundation for Ocntroller Cabinet                                                                                            | 1                                                                      | EACH  | 1                   | EACH      | \$ 1,400.00           | \$ 1,400.00   | \$ 2,500.00                | \$ 2,500.00   | \$ 1,000.00                                                             | \$ 1,000.00  |
| 623.3610         | Traffic Signal Assembly, (1-Way, 12-Inch, 1-3 Section Vertical with Type MA-1W(1) Mounting)                                  | 7                                                                      | EACH  | 7                   | EACH      | \$ 1,500.00           | \$ 10,500.00  | \$ 2,000.00                | \$ 14,000.00  | \$ 900.00                                                               | \$ 6,300.00  |
| 623.3800         | EVP Optical Receiver with Mast Arm Mounting                                                                                  | 2                                                                      | EACH  | 2                   | EACH      | \$ 1,000.00           | \$ 2,000.00   | \$ 1,800.00                | \$ 3,600.00   | \$ 1,100.00                                                             | \$ 2,200.00  |
| 623.4210         | Pedestrian Signal Assembly, (1-Way, 12-Inch, One Vertical with Type TP-2W Mounting) with 4 1/2" Slipfitter                   | 2                                                                      | EACH  | 2                   | EACH      | \$ 700.00             | \$ 1,400.00   | \$ 1,500.00                | \$ 3,000.00   | \$ 1,200.00                                                             | \$ 2,400.00  |

## TABULATION OF BIDS

|                  |                                                                                                            |                                                                        |       |                     |           |                       |              |                            |               |                                                                         |              |
|------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------|---------------------|-----------|-----------------------|--------------|----------------------------|---------------|-------------------------------------------------------------------------|--------------|
| PROJECT:         | Vineyard Boulevard Installation of Traffic Signals at River Street                                         |                                                                        |       |                     |           | JACK ENDO<br>ELECTRIC |              | PAUL'S ELECTRIC<br>COMPANY |               | STATE OF HAWAII<br>DEPARTMENT OF<br>TRANSPORTATION<br>HIGHWAYS DIVISION |              |
| PROJECT NO.:     | 98A-01-15                                                                                                  |                                                                        |       |                     |           |                       |              |                            |               |                                                                         |              |
| NET LENGTH:      | 0.15 Miles                                                                                                 |                                                                        |       |                     |           |                       |              |                            |               |                                                                         |              |
| ISLAND:          | Oahu                                                                                                       |                                                                        |       |                     |           |                       |              |                            |               |                                                                         |              |
| DISTRICT:        | Honolulu                                                                                                   |                                                                        |       |                     |           |                       |              |                            |               |                                                                         |              |
| DATE ADVERTISED: | October 10, 2017                                                                                           | ** NOTE: Quantities<br>shown in these columns are<br>for in-house use. |       |                     |           |                       |              |                            |               |                                                                         |              |
| BID OPENED:      | November 09, 2017                                                                                          |                                                                        |       |                     |           |                       |              |                            |               |                                                                         |              |
| COMPLETION TIME: | One Hundred and Twenty (120) Working Days                                                                  |                                                                        |       |                     |           |                       |              |                            |               |                                                                         |              |
| ITEM NO.         | ITEM                                                                                                       | **APPROX.<br>QUANTITY                                                  | UNITS | APPROX.<br>QUANTITY | UNIT USED | UNIT PRICE            | AMOUNT       | UNIT PRICE                 | AMOUNT        | UNIT PRICE                                                              | AMOUNT       |
| 623.4220         | Pedestrian Signal Assembly, (2-Way, 12-Inch, One Vertical with Type TP-2W Mounting) with 4 1/2" Slipfitter | 1                                                                      | EACH  | 1                   | EACH      | \$ 1,400.00           | \$ 1,400.00  | \$ 2,000.00                | \$ 2,000.00   | \$ 2,400.00                                                             | \$ 2,400.00  |
| 623.4410         | Accessible Pedestrian Push Button with Instruction Sign                                                    | 5                                                                      | EACH  | 5                   | EACH      | \$ 400.00             | \$ 2,000.00  | \$ 1,200.00                | \$ 6,000.00   | \$ 700.00                                                               | \$ 3,500.00  |
| 623.4500         | Pedestrian Push Button Pedestal                                                                            | 2                                                                      | EACH  | 2                   | EACH      | \$ 600.00             | \$ 1,200.00  | \$ 2,000.00                | \$ 4,000.00   | \$ 200.00                                                               | \$ 400.00    |
| 623.5010         | Traffic Signal Ductline, Two 2-Inch Conduit, SCH 40 PVC, Concrete Encased                                  | 45                                                                     | LF    | L.S.                | L.S.      | L.S.                  | \$ 24,300.00 | L.S.                       | \$ 25,000.00  | L.S.                                                                    | \$ 2,100.00  |
| 623.5020         | Traffic Signal Ductline, Three 2-Inch Conduit, SCH 40 PVC, Concrete Encased                                | 95                                                                     | LF    | L.S.                | L.S.      | L.S.                  | \$ 50,400.00 | L.S.                       | \$ 80,000.00  | L.S.                                                                    | \$ 6,400.00  |
| 623.5060         | Traffic Signal Ductline, Five 2-Inch Conduit, SCH 40 PVC, Concrete Encased                                 | 110                                                                    | LF    | L.S.                | L.S.      | L.S.                  | \$ 66,000.00 | L.S.                       | \$ 100,000.00 | L.S.                                                                    | \$ 8,600.00  |
| 623.5070         | 2-Inch Conduit, SCH 80 PVC                                                                                 | 105                                                                    | LF    | L.S.                | L.S.      | L.S.                  | \$ 28,600.00 | L.S.                       | \$ 15,000.00  | L.S.                                                                    | \$ 600.00    |
| 623.6100         | Type B Pullbox                                                                                             | 4                                                                      | EACH  | 4                   | EACH      | \$ 1,700.00           | \$ 6,800.00  | \$ 2,000.00                | \$ 8,000.00   | \$ 700.00                                                               | \$ 2,800.00  |
| 623.6200         | Type C Pullbox                                                                                             | 1                                                                      | EACH  | 1                   | EACH      | \$ 2,000.00           | \$ 2,000.00  | \$ 3,000.00                | \$ 3,000.00   | \$ 2,600.00                                                             | \$ 2,600.00  |
| 623.7260         | No. 14, 26-Conductor Traffic Control Cable                                                                 | 365                                                                    | LF    | L.S.                | L.S.      | L.S.                  | \$ 2,520.00  | L.S.                       | \$ 3,000.00   | L.S.                                                                    | \$ 10,000.00 |
| 623.7270         | No.14, 2-Conductor Pedestrian Push Button Cable                                                            | 195                                                                    | LF    | L.S.                | L.S.      | L.S.                  | \$ 540.00    | L.S.                       | \$ 1,000.00   | L.S.                                                                    | \$ 1,200.00  |
| 623.7280         | No. 6, 3-Conductor Power Cable                                                                             | 2                                                                      | LF    | L.S.                | L.S.      | L.S.                  | \$ 200.00    | L.S.                       | \$ 1,000.00   | L.S.                                                                    | \$ 1,000.00  |
| 623.7290         | 1-12 pair #19 Traffic Control Interconnect Cable                                                           | 160                                                                    | LF    | L.S.                | L.S.      | L.S.                  | \$ 740.00    | L.S.                       | \$ 4,000.00   | L.S.                                                                    | \$ 8,000.00  |
| 623.7400         | EVP Cable                                                                                                  | 170                                                                    | LF    | L.S.                | L.S.      | L.S.                  | \$ 670.00    | L.S.                       | \$ 1,000.00   | L.S.                                                                    | \$ 2,000.00  |
| 623.7410         | Interconnect Fabric Subduct                                                                                | 50                                                                     | LF    | L.S.                | L.S.      | L.S.                  | \$ 400.00    | L.S.                       | \$ 5,000.00   | L.S.                                                                    | \$ 15,000.00 |
| 623.8100         | Meter Socket, Breaker (50 Amps), Pedestal, HECO Transformer                                                | L.S.                                                                   | L.S.  | L.S.                | L.S.      | L.S.                  | \$ 21,000.00 | L.S.                       | \$ 15,000.00  | L.S.                                                                    | \$ 7,000.00  |
| 623.8110         | Electrical Duct, Wires, Pullboxes and Enclosures                                                           | L.S.                                                                   | L.S.  | L.S.                | L.S.      | L.S.                  | \$ 43,200.00 | L.S.                       | \$ 30,000.00  | L.S.                                                                    | \$ 27,000.00 |

# TABULATION OF BIDS

|                  |                                                                           |                                                                        |       |                     |           |                       |              |                            |              |                                                                         |              |
|------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------|-------|---------------------|-----------|-----------------------|--------------|----------------------------|--------------|-------------------------------------------------------------------------|--------------|
| PROJECT:         | Vineyard Boulevard Installation of Traffic Signals at River Street        |                                                                        |       |                     |           | JACK ENDO<br>ELECTRIC |              | PAUL'S ELECTRIC<br>COMPANY |              | STATE OF HAWAII<br>DEPARTMENT OF<br>TRANSPORTATION<br>HIGHWAYS DIVISION |              |
| PROJECT NO.:     | 98A-01-15                                                                 |                                                                        |       |                     |           |                       |              |                            |              |                                                                         |              |
| NET LENGTH:      | 0.15 Miles                                                                |                                                                        |       |                     |           |                       |              |                            |              |                                                                         |              |
| ISLAND:          | Oahu                                                                      |                                                                        |       |                     |           |                       |              |                            |              |                                                                         |              |
| DISTRICT:        | Honolulu                                                                  |                                                                        |       |                     |           |                       |              |                            |              |                                                                         |              |
| DATE ADVERTISED: | October 10, 2017                                                          | ** NOTE: Quantities<br>shown in these columns are<br>for in-house use. |       |                     |           |                       |              |                            |              |                                                                         |              |
| BID OPENED:      | November 09, 2017                                                         |                                                                        |       |                     |           |                       |              |                            |              |                                                                         |              |
| COMPLETION TIME: | One Hundred and Twenty (120) Working Days                                 |                                                                        |       |                     |           |                       |              |                            |              |                                                                         |              |
| ITEM NO.         | ITEM                                                                      | **APPROX.<br>QUANTITY                                                  | UNITS | APPROX.<br>QUANTITY | UNIT USED | UNIT PRICE            | AMOUNT       | UNIT PRICE                 | AMOUNT       | UNIT PRICE                                                              | AMOUNT       |
| 629.1100         | 4-Inch Pavement Striping (Thermoplastic Extrusion)                        | 370                                                                    | LF    | L.S.                | L.S.      | L.S.                  | \$ 2,600.00  | L.S.                       | \$ 3,000.00  | L.S.                                                                    | \$ 1,000.00  |
| 629.1110         | 8-Inch Pavement Striping (Thermoplastic Extrusion)                        | 290                                                                    | LF    | L.S.                | L.S.      | L.S.                  | \$ 1,800.00  | L.S.                       | \$ 2,000.00  | L.S.                                                                    | \$ 1,000.00  |
| 629.1120         | 12-Inch Pavement Striping (Thermoplastic Extrusion)                       | 85                                                                     | LF    | L.S.                | L.S.      | L.S.                  | \$ 500.00    | L.S.                       | \$ 1,700.00  | L.S.                                                                    | \$ 1,000.00  |
| 629.1220         | Crosswalk Marking (Tape, Type III, or Thermoplastic Extrusion)            | 85                                                                     | LF    | L.S.                | L.S.      | L.S.                  | \$ 3,700.00  | L.S.                       | \$ 2,700.00  | L.S.                                                                    | \$ 1,300.00  |
| 629.1240         | Pavement Arrow (Tape, Type III, or Thermoplastic Extrusion)               | 7                                                                      | EACH  | L.S.                | L.S.      | L.S.                  | \$ 1,400.00  | L.S.                       | \$ 2,200.00  | L.S.                                                                    | \$ 1,300.00  |
| 629.2400         | Type "C" Pavement Markers                                                 | 290                                                                    | LF    | L.S.                | L.S.      | L.S.                  | \$ 300.00    | L.S.                       | \$ 300.00    | L.S.                                                                    | \$ 700.00    |
| 629.2700         | Typer "H" Pavement Markers                                                | 190                                                                    | LF    | L.S.                | L.S.      | L.S.                  | \$ 100.00    | L.S.                       | \$ 200.00    | L.S.                                                                    | \$ 450.00    |
| 634.0100         | Portland Cement Concrete Sidewalk                                         | 270                                                                    | SF    | L.S.                | L.S.      | L.S.                  | \$ 10,000.00 | L.S.                       | \$ 16,000.00 | L.S.                                                                    | \$ 500.00    |
| 638.0040         | Curb, Type 2D                                                             | 180                                                                    | LF    | L.S.                | L.S.      | L.S.                  | \$ 19,000.00 | L.S.                       | \$ 23,000.00 | L.S.                                                                    | \$ 12,000.00 |
| 638.0100         | Curb and Gutter, Type 2DG                                                 | 45                                                                     | LF    | L.S.                | L.S.      | L.S.                  | \$ 6,000.00  | L.S.                       | \$ 16,000.00 | L.S.                                                                    | \$ 2,000.00  |
| 643.0100         | Maintenance of Existing Landscape Areas                                   | F.A.                                                                   | F.A.  | F.A.                | F.A.      | F.A.                  | \$ 13,000.00 | F.A.                       | \$ 13,000.00 | F.A.                                                                    | \$ 13,000.00 |
| 644.0100         | Repair of Existing Sprinkler Systems                                      | F.A.                                                                   | F.A.  | F.A.                | F.A.      | F.A.                  | \$ 5,000.00  | F.A.                       | \$ 5,000.00  | F.A.                                                                    | \$ 5,000.00  |
| 645.0100         | Traffic Control                                                           | L.S.                                                                   | L.S.  | L.S.                | L.S.      | L.S.                  | \$ 44,230.00 | L.S.                       | \$ 15,000.00 | L.S.                                                                    | \$ 50,000.00 |
| 645.0200         | Additional Police Officers, Additional Control Devices, and Advertisement | F.A.                                                                   | F.A.  | F.A.                | F.A.      | F.A.                  | \$ 20,000.00 | F.A.                       | \$ 20,000.00 | F.A.                                                                    | \$ 3,000.00  |
| 648.0100         | Field-Posted Drawings                                                     | L.S.                                                                   | L.S.  | L.S.                | L.S.      | L.S.                  | \$ 1,000.00  | L.S.                       | \$ 500.00    | L.S.                                                                    | \$ 500.00    |
| 650.0010         | Curb Ramps, Type "A"                                                      | 2                                                                      | EACH  | L.S.                | L.S.      | L.S.                  | \$ 24,000.00 | L.S.                       | \$ 20,000.00 | L.S.                                                                    | \$ 20,000.00 |
| 650.0010         | Curb Ramps, Type "C"                                                      | 1                                                                      | EACH  | L.S.                | L.S.      | L.S.                  | \$ 12,000.00 | L.S.                       | \$ 10,000.00 | L.S.                                                                    | \$ 10,000.00 |
| 696.0100         | Maintenance of Trailers                                                   | F.A.                                                                   | F.A.  | F.A.                | F.A.      | F.A.                  | \$ 34,000.00 | F.A.                       | \$ 34,000.00 | F.A.                                                                    | \$ 34,000.00 |

TABULATION OF BIDS

|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|--------------------|--------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|
| TABULATION OF BIDS |                                                                    |  |  |  |  |  |  |  |  |  |  |
| PROJECT:           | Vineyard Boulevard Installation of Traffic Signals at River Street |  |  |  |  |  |  |  |  |  |  |
| PROJECT NO.:       | 98A-01-15                                                          |  |  |  |  |  |  |  |  |  |  |
| NET LENGTH:        | 0.15 Miles                                                         |  |  |  |  |  |  |  |  |  |  |
| ISLAND:            | Oahu                                                               |  |  |  |  |  |  |  |  |  |  |
| DISTRICT:          | Honolulu                                                           |  |  |  |  |  |  |  |  |  |  |
| DATE ADVERTISED:   | October 10, 2017                                                   |  |  |  |  |  |  |  |  |  |  |
| BID OPENED:        | November 09, 2017                                                  |  |  |  |  |  |  |  |  |  |  |
| COMPLETION TIME:   | One Hundred and Twenty (120) Working Days                          |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |
|                    |                                                                    |  |  |  |  |  |  |  |  |  |  |