

TOWN OF WASHINGTON GROVE STREETLIGHTS 31-October-2018

*** Previous Incandescent	Number of Items	Kilowatts per Lamp	Total KW	Kilowatt Hours	Service Charge per Lamp	Total Service Charge	Distribution Charge	Generation Charge	Total
1000 Lumen Inc OH WOG	48	0.092	4.416	1,721	5.28	253.44	92.58	99.34	445.36
2500 Lumen Inc OH WOG	1	0.189	0.189	74	5.28	5.28	3.96	4.25	13.49
2500 Lumen Inc OH WG	20	0.189	3.780	1,473	10.78	215.60	79.25	85.03	379.88
4000 Lumen Inc OH WOG	3	0.295	0.885	345	5.28	15.84	18.55	19.91	54.30
4000 Lumen Inc OH WG	20	0.295	5.900	2,299	10.78	215.60	123.70	132.72	472.01
100 Watt MV OH	3	0.130	0.390	152	4.18	12.54	8.18	8.77	29.49
175 Watt MV OH	1	0.210	0.210	82	4.20	4.20	4.40	4.72	13.33
70 Watt HPS OH	5	0.085	0.425	166	5.66	28.30	8.91	9.56	46.77
2500 Lumen Inc UG WG	1	0.189	0.189	74	9.46	9.46	3.96	4.25	17.67
70 Watt HPS UG	5	0.085	0.425	166	4.11	20.55	8.91	9.56	39.02
C&P Poles	4	0.000	0.000	0	0.15	0.60	0.00	0	0.60
Monthly Totals	111		16.809	6,551		781.41	352.41	378.11	1,511.93
								x 12	18,784.20
								Annual Estimated Total	18,784.20

*** Current Induction	Number of Items	Kilowatts per Lamp	Total KW	Kilowatt Hours	Monthly Charges per Lamp	Total Lamp Charges	Delivery Charge per kWh	Generation Services	Total
55 (23) Watt Induction	93	0.055	5.115	1,993	4.61	428.73	107.24	115.06	651.03
100 Watt HPS	1	0.118	0.118	46	6.64	6.64	2.47	2.65	11.77
70 Watt HPS OH	8	0.085	0.680	265	6.16	49.28	14.26	15.30	78.83
70 Watt HPS UG	5	0.085	0.425	166	3.98	19.90	8.91	9.56	38.37
C&P Poles	4	0.000	0.000	0	0.17	0.68	0.00	0	0.68
Monthly Totals	111		6.338	2,470		505.23	132.88	142.57	780.68
								x 12	9,368.16
								Annual Estimated Total	9,368.16

*** Proposed LED	Number of Items	Kilowatts per Lamp	Total KW	Kilowatt Hours	Monthly Charges per Lamp	Total Lamp Charges	Delivery Charge per kWh	Generation Services	Total
50 (23) Watt LED	93	0.050	4.650	1,812	1.42	132.06	97.49	104.60	334.15
100 Watt HPS	1	0.118	0.118	46	6.64	6.64	2.47	2.65	11.77
70 Watt HPS OH	8	0.085	0.680	265	6.16	49.28	14.26	15.30	78.83
70 Watt HPS UG	5	0.085	0.425	166	3.98	19.90	8.91	9.56	38.37
C&P Poles	4	0.000	0.000	0	0.17	0.68	0.00	0	0.68
Monthly Totals	111		5.873	2,289		208.56	123.13	132.11	463.80
								x 12	5,565.61
								Annual Estimated Total	5,565.61

Night Time Hours 389.71
 Delivery Rate 0.053798
 Generation Rate 0.057721

Notes:
 "Inc" = Incandescent; "MV" = Mercury Vapor; "HPS" = High Pressure Sodium
 "OH" = Overhead; "UG" = Underground
 "WOG" = Without Globe; "WG" = With Globe
 Current Induction bulbs are 23-watt; must use 55-watts as per Pepco November 8, 2011 letter of agreement
 Proposed LED bulbs are 23-watt; proposed 50-watt-minimum as per PSC-approved schedule June 22, 2018