Reliable Traffic Data Services
Tel: (770) 578-8158 | Fax: (770) 578-8159

TMC Data
Atlanta Hwy (US29 Bus) @ Main St
Auburn, GA
7-9 AM | 4-6 PM

File Name : 48980003
Site Code : 48980003
Start Date : 6/4/2024
Page No : 1

Groups Printed- Cars, Buses and Trucks

	Main St Northbound					Mt Moriah Rd Southbound					Atlanta Hwy (US29 Bus) Eastbound					Atlanta Hwy (US29 Bus) Westbound					
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
07:00 AM	8	13	1	0	22	27	4	7	0	38	8	67	2	0	77	0	165	21	0	186	323
07:15 AM	12	14	0	0	26	27	3	6	0	36	5	101	1	0	107	1	152	29	0	182	351
07:30 AM	7	13	0	0	20	25	8	9	0	42	4	102	2	0	108	0	141	27	0	168	338
07:45 AM	10	10	0	0	20	32	6	6	0	44	6	93	5	0	104	0	133	30	0	163	331
Total	37	50	1	0	88	111	21	28	0	160	23	363	10	0	396	1	591	107	0	699	1343
08:00 AM	8	10	0	0	18	32	5	8	0	45	5	96	3	0	104	0	129	31	0	160	327
08:15 AM	10	6	0	0	16	26	3	5	0	34	3	85	3	0	91	0	148	26	0	174	315
08:30 AM	3	4	0	0	7	35	5	4	0	44	7	89	3	0	99	1	130	25	0	156	306
08:45 AM	11	4	0	0	15	33	2	11	0	46	5	84	4	0	93	2	103	23	0	128	282
Total	32	24	0	0	56	126	15	28	0	169	20	354	13	0	387	3	510	105	0	618	1230
*** BREAK ***																					
04:00 PM	6	9	2	0	17	36	12	7	0	55	5	177	7	0	189	0	155	23	0	178	439
04:15 PM	8	10	0	0	18	38	8	13	0	59	7	184	7	0	198	2	161	26	0	189	464
04:30 PM	15	16	1	0	32	40	11	6	0	57	10	162	4	0	176	0	165	30	0	195	460
04:45 PM	14	9	1	0	24	38	22	12	0	72	10	190	7	0	207	0	122	28	0	150	453
Total	43	44	4	0	91	152	53	38	0	243	32	713	25	0	770	2	603	107	0	712	1816
05:00 PM	10	11	1	0	22	38	14	10	0	62	14	189	9	0	212	1	156	25	0	182	478
05:15 PM	6	12	1	0	19	42	18	12	0	72	10	169	10	0	189	2	151	29	0	182	462
05:30 PM	8	9	2	0	19	35	13	16	0	64	12	191	10	0	213	0	135	31	0	166	462
05:45 PM	9	3	1	0	13	58	12	7	0	77	12	147	5	0	164	0	101	21	0	122	376
Total	33	35	5	0	73	173	57	45	0	275	48	696	34	0	778	3	543	106	0	652	1778
Grand Total	145	153	10	0	308	562	146	139	0	847	123	2126	82	0	2331	9	2247	425	0	2681	6167
Apprch %	47.1	49.7	3.2	0		66.4	17.2	16.4	0		5.3	91.2	3.5	0		0.3	83.8	15.9	0		
Total %	2.4	2.5	0.2	0	5	9.1	2.4	2.3	0	13.7	2	34.5	1.3	0	37.8	0.1	36.4	6.9	0	43.5	

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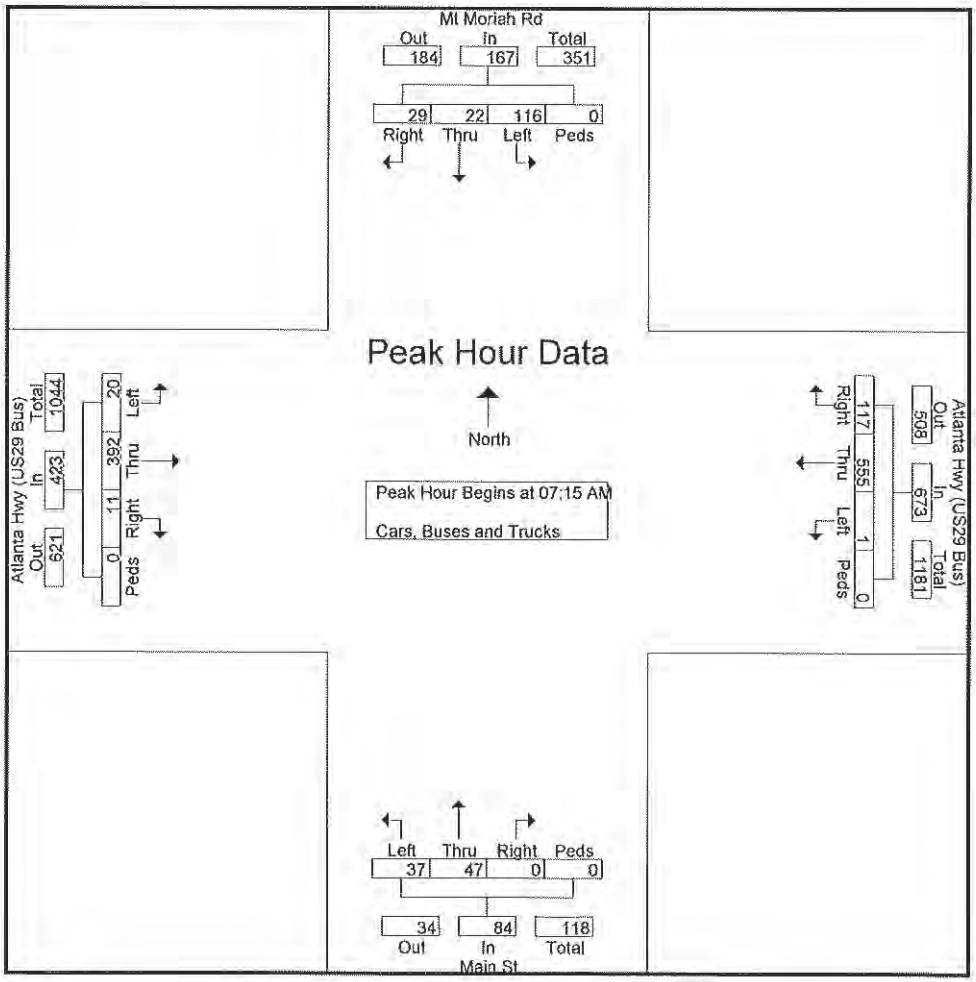
	Main St Northbound					Mt Moriah Rd Southbound					Atlanta Hwy (US29 Bus) Eastbound					Atlanta Hwy (US29 Bus) Westbound					
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:15 AM																					
07:15 AM	**12**	**14**	0	0	**26**	27	3	6	0	36	5	101	1	0	107	**1**	**152**	29	0	**182**	**351**
07:30 AM	7	13	0	0	20	25	**8**	**9**	0	42	4	**102**	2	0	**108**	0	141	27	0	168	338
07:45 AM	10	10	0	0	20	**32**	6	6	0	44	6	93	5	0	104	0	133	30	0	163	331
08:00 AM	8	10	0	0	18	32	5	8	0	45	5	96	3	0	104	0	129	**31**	0	160	327
Total Volume	37	47	0	0	84	116	22	29	0	167	20	392	11	0	423	1	555	117	0	673	1347
% App. Total						69.5	13.2	17.4				92.7					82.5	17.4			
PHF	.771	.839	.000	.000	.808	.906	.688	.806	.000	.928	.833	.961	.550	.000	.979	.250	.913	.944	.000	.924	.959



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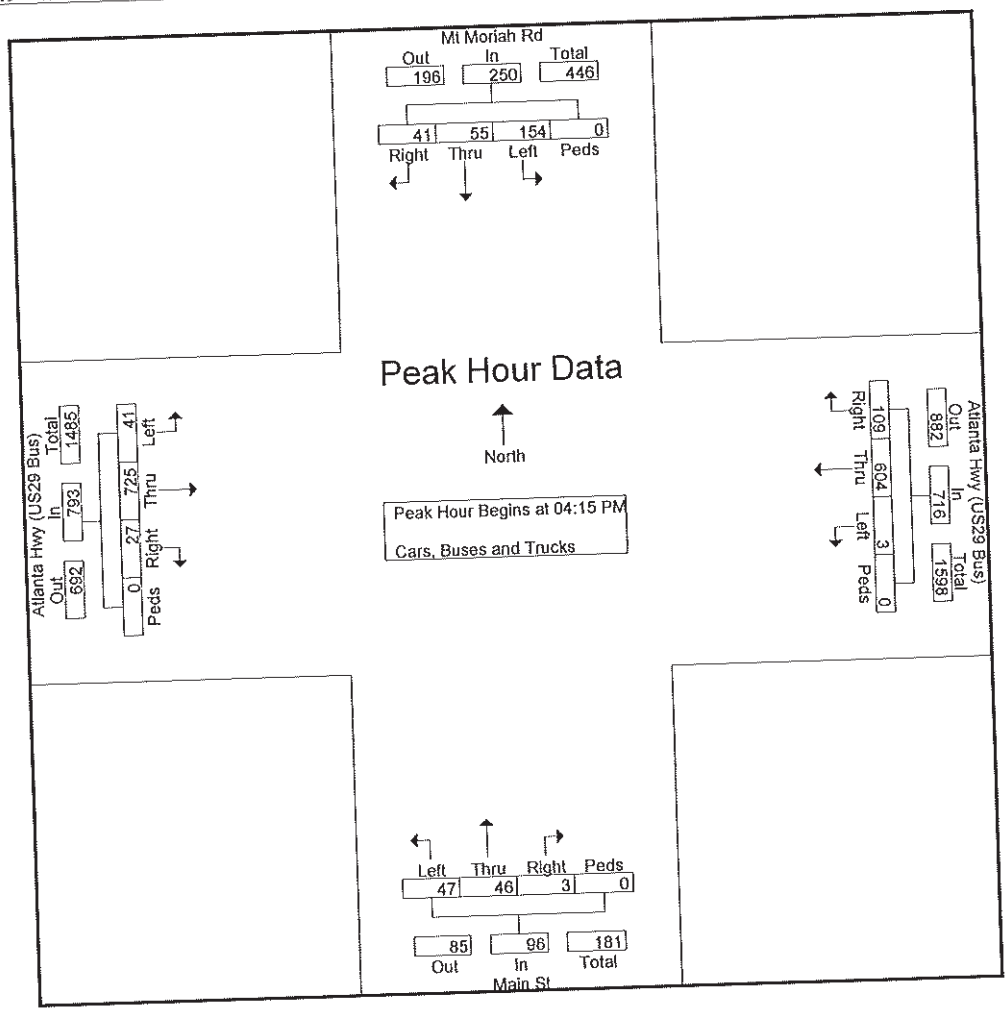
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:15 PM																					
04:15 PM	8	10	0	0	18	38	8	13	0	59	7	184	7	0	198	2	161	26	0	189	464
04:30 PM	15	16	1	0	32	40	11	6	0	57	10	162	4	0	176	0	165	30	0	195	460
04:45 PM	14	9	1	0	24	38	22	12	0	72	10	190	7	0	207	0	122	28	0	150	453
05:00 PM	10	11	1	0	22	38	14	10	0	62	14	189	9	0	212	1	156	25	0	182	478
Total Volume	47	46	3	0	96	154	55	41	0	250	41	725	27	0	793	3	604	109	0	716	1855
% App. Total		47.9				61.6		16.4				91.4					84.4	15.2			
PHF	.783	.719	.750	.000	.750	.963	.625	.788	.000	.868	.732	.954	.750	.000	.935	.375	.915	.908	.000	.918	.970



Appendix B

Intersection Analysis Methodology

Intersection Analysis Methodology

The methodology used for evaluating traffic operations at intersections is presented in the Transportation Research Board's 2022 *Highway Capacity Manual*, 7th Edition (HCM 7). Synchro 12 software, which emulates the HCM 7 methodology, was used for all analyses. The following is an overview of the methodology employed for the analysis of signalized intersections and roundabouts and stop-sign controlled (unsignalized) intersections. Levels of service (LOS) are assigned letters A through F. LOS A indicates operations with very low control delay while LOS F describes operations with high control delay. LOS F is considered to be unacceptable by most drivers, while LOS E is typically considered to be the limit of acceptable delay.

Signalized Intersections and Roundabouts – Level of service for a signalized intersection and a roundabout is defined in terms of control delay per vehicle. For signalized intersections and roundabouts, a composite intersection level of service is determined. The thresholds for each level of service are higher for signalized intersections and roundabouts than for unsignalized intersections. This is attributable to a variety of factors including expectation and acceptance of higher delays at signals/roundabouts, and the fact that drivers can relax when waiting at a signal as opposed to having to remain attentive as they proceed through the unsignalized intersection. The level of service criteria for signalized intersections and roundabouts are shown in Table A.

Table A – Level of Service Criteria for Signalized Intersections and Roundabouts

Control Delay (s/veh)	LOS
≤ 10	A
> 10 and ≤ 20	B
> 20 and ≤ 35	C
> 35 and ≤ 55	D
> 55 and ≤ 80	E
> 80	F

Source: Highway Capacity Manual 7

Unsignalized Intersections – Level of service for an unsignalized intersection is defined in terms of control delay per vehicle. Control delay is that portion of delay attributable to the control device and includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. The delays at unsignalized intersections are based on gap acceptance theory, factoring in availability of gaps, usefulness of the gaps, and the priority of right-of-way given to each traffic stream. The level of service criteria for unsignalized intersections are presented in Table B.

Table B – Level of Service Criteria for Unsignalized Intersections

Control Delay (s/veh)	LOS
0 – 10	A
> 10 and ≤ 15	B
> 15 and ≤ 25	C
> 25 and ≤ 35	D
> 35 and ≤ 50	E
> 50	F

Source: Highway Capacity Manual 7

Appendix C

Existing Intersection Operational Analysis

Intersection	
Intersection Delay, s/veh	7.2
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	13	27	2	2	9	2	2	1	1	0	0	3
Future Vol, veh/h	13	27	2	2	9	2	2	1	1	0	0	3
Peak Hour Factor	0.75	0.75	0.75	0.65	0.65	0.65	0.33	0.33	0.33	0.75	0.75	0.75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	17	36	3	3	14	3	6	3	3	0	0	4
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	7.3	7	7.1	6.5
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	50%	31%	15%	0%
Vol Thru, %	25%	64%	69%	0%
Vol Right, %	25%	5%	15%	100%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	4	42	13	3
LT Vol	2	13	2	0
Through Vol	1	27	9	0
RT Vol	1	2	2	3
Lane Flow Rate	12	56	20	4
Geometry Grp	1	1	1	1
Degree of Util (X)	0.014	0.062	0.022	0.004
Departure Headway (Hd)	4.02	4.012	3.944	3.475
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	889	896	909	1026
Service Time	2.051	2.021	1.96	1.509
HCM Lane V/C Ratio	0.013	0.063	0.022	0.004
HCM Control Delay, s/veh	7.1	7.3	7	6.5
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0	0.2	0.1	0

Intersection	
Intersection Delay, s/veh	7.2
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	1	0	4	1	79	0	6	5	34	0	1
Future Vol, veh/h	0	1	0	4	1	79	0	6	5	34	0	1
Peak Hour Factor	0.25	0.25	0.25	0.75	0.75	0.75	0.55	0.55	0.55	0.73	0.73	0.73
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	4	0	5	1	105	0	11	9	47	0	1
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	7.2	7	7	7.6
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	0%	5%	97%
Vol Thru, %	55%	100%	1%	0%
Vol Right, %	45%	0%	94%	3%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	11	1	84	35
LT Vol	0	0	4	34
Through Vol	6	1	1	0
RT Vol	5	0	79	1
Lane Flow Rate	20	4	112	48
Geometry Grp	1	1	1	1
Degree of Util (X)	0.022	0.005	0.109	0.058
Departure Headway (Hd)	3.902	4.139	3.501	4.331
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	915	860	1019	828
Service Time	1.935	2.185	1.539	2.354
HCM Lane V/C Ratio	0.022	0.005	0.11	0.058
HCM Control Delay, s/veh	7	7.2	7	7.6
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.1	0	0.4	0.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	392	11	1	555	117	37	47	0	116	22	29
Future Volume (veh/h)	20	392	11	1	555	117	37	47	0	116	22	29
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1811	1870	1870	1811	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	20	400	11	1	603	127	46	58	0	125	24	31
Peak Hour Factor	0.98	0.98	0.98	0.92	0.92	0.92	0.81	0.81	0.81	0.93	0.93	0.93
Percent Heavy Veh, %	2	6	2	2	6	2	2	2	2	2	2	2
Cap, veh/h	209	842	23	436	664	140	273	315	0	393	78	78
Arrive On Green	0.02	0.48	0.48	0.00	0.46	0.46	0.30	0.30	0.00	0.30	0.30	0.30
Sat Flow, veh/h	1781	1754	48	1781	1451	306	629	1041	0	974	257	256
Grp Volume(v), veh/h	20	0	411	1	0	730	104	0	0	180	0	0
Grp Sat Flow(s),veh/h/ln	1781	0	1802	1781	0	1756	1670	0	0	1487	0	0
Q Serve(g_s), s	0.4	0.0	9.6	0.0	0.0	24.1	0.0	0.0	0.0	2.9	0.0	0.0
Cycle Q Clear(g_c), s	0.4	0.0	9.6	0.0	0.0	24.1	2.6	0.0	0.0	5.5	0.0	0.0
Prop In Lane	1.00		0.03	1.00		0.17	0.44		0.00	0.69		0.17
Lane Grp Cap(c), veh/h	209	0	865	436	0	804	589	0	0	548	0	0
V/C Ratio(X)	0.10	0.00	0.48	0.00	0.00	0.91	0.18	0.00	0.00	0.33	0.00	0.00
Avail Cap(c_a), veh/h	313	0	938	579	0	914	589	0	0	548	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	13.3	0.0	10.9	9.7	0.0	15.7	16.1	0.0	0.0	17.0	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.0	0.4	0.0	0.0	11.8	0.7	0.0	0.0	1.6	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	3.0	0.0	0.0	9.9	1.1	0.0	0.0	2.1	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	13.5	0.0	11.4	9.7	0.0	27.5	16.7	0.0	0.0	18.6	0.0	0.0
LnGrp LOS	B		B	A		C	B			B		
Approach Vol, veh/h		431			731			104			180	
Approach Delay, s/veh		11.5			27.5			16.7			18.6	
Approach LOS		B			C			B			B	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		23.4	4.6	34.5		23.4	6.0	33.1				
Change Period (Y+Rc), s		4.5	4.5	4.5		4.5	4.5	4.5				
Max Green Setting (Gmax), s		18.9	5.1	32.5		18.9	5.1	32.5				
Max Q Clear Time (g_c+I1), s		4.6	2.0	11.6		7.5	2.4	26.1				
Green Ext Time (p_c), s		0.4	0.0	2.2		0.7	0.0	2.5				

Intersection Summary												
HCM 7th Control Delay, s/veh			20.8									
HCM 7th LOS			C									

Intersection	
Intersection Delay, s/veh	7.2
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	8	13	0	4	20	0	3	7	4	0	10	12
Future Vol, veh/h	8	13	0	4	20	0	3	7	4	0	10	12
Peak Hour Factor	0.66	0.66	0.66	0.55	0.55	0.55	0.58	0.58	0.58	0.69	0.69	0.69
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	12	20	0	7	36	0	5	12	7	0	14	17
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	7.3	7.3	7.1	6.9
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	21%	38%	17%	0%
Vol Thru, %	50%	62%	83%	45%
Vol Right, %	29%	0%	0%	55%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	14	21	24	22
LT Vol	3	8	4	0
Through Vol	7	13	20	10
RT Vol	4	0	0	12
Lane Flow Rate	24	32	44	32
Geometry Grp	1	1	1	1
Degree of Util (X)	0.027	0.037	0.05	0.033
Departure Headway (Hd)	3.96	4.139	4.087	3.755
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	900	864	875	948
Service Time	2.003	2.17	2.116	1.799
HCM Lane V/C Ratio	0.027	0.037	0.05	0.034
HCM Control Delay, s/veh	7.1	7.3	7.3	6.9
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.1	0.1	0.2	0.1

Intersection	
Intersection Delay, s/veh	7.7
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	6	1	9	2	93	1	5	11	97	2	1
Future Vol, veh/h	0	6	1	9	2	93	1	5	11	97	2	1
Peak Hour Factor	0.58	0.58	0.58	0.70	0.70	0.70	0.71	0.71	0.71	0.89	0.89	0.89
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	10	2	13	3	133	1	7	15	109	2	1
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	7.4	7.4	7.1	8.2
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	6%	0%	9%	97%
Vol Thru, %	29%	86%	2%	2%
Vol Right, %	65%	14%	89%	1%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	17	7	104	100
LT Vol	1	0	9	97
Through Vol	5	6	2	2
RT Vol	11	1	93	1
Lane Flow Rate	24	12	149	112
Geometry Grp	1	1	1	1
Degree of Util (X)	0.026	0.014	0.151	0.138
Departure Headway (Hd)	3.925	4.304	3.659	4.421
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	900	837	964	808
Service Time	2.003	2.304	1.745	2.468
HCM Lane V/C Ratio	0.027	0.014	0.155	0.139
HCM Control Delay, s/veh	7.1	7.4	7.4	8.2
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.1	0	0.5	0.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	41	725	27	3	604	109	47	46	3	154	55	41
Future Volume (veh/h)	41	725	27	3	604	109	47	46	3	154	55	41
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1811	1870	1870	1811	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	44	771	29	3	657	118	63	61	4	177	63	47
Peak Hour Factor	0.94	0.94	0.94	0.92	0.92	0.92	0.75	0.75	0.75	0.87	0.87	0.87
Percent Heavy Veh, %	2	6	2	2	6	2	2	2	2	2	2	2
Cap, veh/h	217	891	34	190	714	128	275	246	14	343	119	75
Arrive On Green	0.04	0.51	0.51	0.00	0.48	0.48	0.30	0.30	0.30	0.30	0.30	0.30
Sat Flow, veh/h	1781	1734	65	1781	1494	268	676	824	48	885	397	251
Grp Volume(v), veh/h	44	0	800	3	0	775	128	0	0	287	0	0
Grp Sat Flow(s),veh/h/ln	1781	0	1799	1781	0	1763	1548	0	0	1534	0	0
Q Serve(g_s), s	0.9	0.0	28.6	0.1	0.0	30.1	0.0	0.0	0.0	7.0	0.0	0.0
Cycle Q Clear(g_c), s	0.9	0.0	28.6	0.1	0.0	30.1	4.2	0.0	0.0	11.3	0.0	0.0
Prop In Lane	1.00		0.04	1.00		0.15	0.49		0.03	0.62		0.16
Lane Grp Cap(c), veh/h	217	0	924	190	0	842	535	0	0	537	0	0
V/C Ratio(X)	0.20	0.00	0.87	0.02	0.00	0.92	0.24	0.00	0.00	0.53	0.00	0.00
Avail Cap(c_a), veh/h	269	0	968	306	0	948	535	0	0	537	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	15.3	0.0	15.6	14.5	0.0	17.9	19.5	0.0	0.0	21.8	0.0	0.0
Incr Delay (d2), s/veh	0.5	0.0	8.0	0.0	0.0	13.0	1.1	0.0	0.0	3.8	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	11.2	0.0	0.0	12.8	1.7	0.0	0.0	4.5	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	15.8	0.0	23.7	14.5	0.0	30.9	20.5	0.0	0.0	25.6	0.0	0.0
LnGrp LOS	B		C	B		C	C			C		
Approach Vol, veh/h		844			778			128			287	
Approach Delay, s/veh		23.3			30.8			20.5			25.6	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	26.4	4.8	42.2	26.4	7.5	39.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	21.9	5.1	39.5	21.9	5.1	39.5
Max Q Clear Time (g_c+I1), s	6.2	2.1	30.6	13.3	2.9	32.1
Green Ext Time (p_c), s	0.5	0.0	3.5	1.0	0.0	3.0

Intersection Summary	
HCM 7th Control Delay, s/veh	26.3
HCM 7th LOS	C

Appendix D

No-Build Intersection Operational Analysis

Intersection	
Intersection Delay, s/veh	7.2
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	14	30	2	2	10	2	2	1	1	0	0	3
Future Vol, veh/h	14	30	2	2	10	2	2	1	1	0	0	3
Peak Hour Factor	0.75	0.75	0.75	0.65	0.65	0.65	0.33	0.33	0.33	0.75	0.75	0.75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	19	40	3	3	15	3	6	3	3	0	0	4
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	7.3	7.1	7.1	6.5
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	50%	30%	14%	0%
Vol Thru, %	25%	65%	71%	0%
Vol Right, %	25%	4%	14%	100%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	4	46	14	3
LT Vol	2	14	2	0
Through Vol	1	30	10	0
RT Vol	1	2	2	3
Lane Flow Rate	12	61	22	4
Geometry Grp	1	1	1	1
Degree of Util (X)	0.014	0.068	0.024	0.004
Departure Headway (Hd)	4.032	4.014	3.952	3.487
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	885	895	907	1022
Service Time	2.067	2.024	1.969	1.524
HCM Lane V/C Ratio	0.014	0.068	0.024	0.004
HCM Control Delay, s/veh	7.1	7.3	7.1	6.5
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0	0.2	0.1	0

Intersection	
Intersection Delay, s/veh	7.2
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	1	0	4	1	87	0	7	6	38	0	1
Future Vol, veh/h	0	1	0	4	1	87	0	7	6	38	0	1
Peak Hour Factor	0.25	0.25	0.25	0.75	0.75	0.75	0.55	0.55	0.55	0.73	0.73	0.73
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	4	0	5	1	116	0	13	11	52	0	1
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	7.2	7	7.1	7.7
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	0%	4%	97%
Vol Thru, %	54%	100%	1%	0%
Vol Right, %	46%	0%	95%	3%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	13	1	92	39
LT Vol	0	0	4	38
Through Vol	7	1	1	0
RT Vol	6	0	87	1
Lane Flow Rate	24	4	123	53
Geometry Grp	1	1	1	1
Degree of Util (X)	0.026	0.005	0.12	0.065
Departure Headway (Hd)	3.919	4.161	3.511	4.354
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	910	854	1014	822
Service Time	1.959	2.216	1.556	2.382
HCM Lane V/C Ratio	0.026	0.005	0.121	0.064
HCM Control Delay, s/veh	7.1	7.2	7	7.7
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.1	0	0.4	0.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	433	12	1	613	129	41	52	0	128	24	32
Future Volume (veh/h)	22	433	12	1	613	129	41	52	0	128	24	32
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1811	1870	1870	1811	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	22	442	12	1	666	140	51	64	0	138	26	34
Peak Hour Factor	0.98	0.98	0.98	0.92	0.92	0.92	0.81	0.81	0.81	0.93	0.93	0.93
Percent Heavy Veh, %	2	6	2	2	6	2	2	2	2	2	2	2
Cap, veh/h	199	915	25	446	722	152	253	290	0	364	71	71
Arrive On Green	0.03	0.52	0.52	0.00	0.50	0.50	0.28	0.28	0.00	0.28	0.28	0.28
Sat Flow, veh/h	1781	1755	48	1781	1451	305	633	1042	0	984	254	257
Grp Volume(v), veh/h	22	0	454	1	0	806	115	0	0	198	0	0
Grp Sat Flow(s),veh/h/ln	1781	0	1803	1781	0	1756	1676	0	0	1495	0	0
Q Serve(g_s), s	0.4	0.0	10.9	0.0	0.0	28.9	0.0	0.0	0.0	3.6	0.0	0.0
Cycle Q Clear(g_c), s	0.4	0.0	10.9	0.0	0.0	28.9	3.2	0.0	0.0	6.9	0.0	0.0
Prop In Lane	1.00		0.03	1.00		0.17	0.44		0.00	0.70		0.17
Lane Grp Cap(c), veh/h	199	0	940	446	0	874	543	0	0	506	0	0
V/C Ratio(X)	0.11	0.00	0.48	0.00	0.00	0.92	0.21	0.00	0.00	0.39	0.00	0.00
Avail Cap(c_a), veh/h	288	0	996	577	0	970	543	0	0	506	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	14.2	0.0	10.4	9.2	0.0	15.8	18.8	0.0	0.0	20.0	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.0	0.4	0.0	0.0	13.1	0.9	0.0	0.0	2.3	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	3.4	0.0	0.0	12.0	1.4	0.0	0.0	2.7	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	14.4	0.0	10.8	9.2	0.0	28.9	19.7	0.0	0.0	22.2	0.0	0.0
LnGrp LOS	B		B	A		C	B			C		
Approach Vol, veh/h		476			807			115			198	
Approach Delay, s/veh		11.0			28.9			19.7			22.2	
Approach LOS		B			C			B			C	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		23.4	4.6	39.9		23.4	6.2	38.3				
Change Period (Y+Rc), s		4.5	4.5	4.5		4.5	4.5	4.5				
Max Green Setting (Gmax), s		18.9	5.1	37.5		18.9	5.1	37.5				
Max Q Clear Time (g_c+I1), s		5.2	2.0	12.9		8.9	2.4	30.9				
Green Ext Time (p_c), s		0.4	0.0	2.6		0.7	0.0	2.9				

Intersection Summary		
HCM 7th Control Delay, s/veh		22.0
HCM 7th LOS		C

Intersection	
Intersection Delay, s/veh	7.2
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	9	14	0	4	22	0	3	8	4	0	11	13
Future Vol, veh/h	9	14	0	4	22	0	3	8	4	0	11	13
Peak Hour Factor	0.66	0.66	0.66	0.55	0.55	0.55	0.58	0.58	0.58	0.69	0.69	0.69
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	14	21	0	7	40	0	5	14	7	0	16	19
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	7.4	7.4	7.1	7
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	20%	39%	15%	0%
Vol Thru, %	53%	61%	85%	46%
Vol Right, %	27%	0%	0%	54%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	15	23	26	24
LT Vol	3	9	4	0
Through Vol	8	14	22	11
RT Vol	4	0	0	13
Lane Flow Rate	26	35	47	35
Geometry Grp	1	1	1	1
Degree of Util (X)	0.029	0.04	0.054	0.036
Departure Headway (Hd)	3.983	4.154	4.097	3.771
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	894	860	873	944
Service Time	2.028	2.186	2.126	1.817
HCM Lane V/C Ratio	0.029	0.041	0.054	0.037
HCM Control Delay, s/veh	7.1	7.4	7.4	7
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.1	0.1	0.2	0.1

Intersection	
Intersection Delay, s/veh	7.8
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	7	1	10	2	103	1	6	12	107	2	1
Future Vol, veh/h	0	7	1	10	2	103	1	6	12	107	2	1
Peak Hour Factor	0.58	0.58	0.58	0.70	0.70	0.70	0.71	0.71	0.71	0.89	0.89	0.89
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	12	2	14	3	147	1	8	17	120	2	1
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	7.4	7.5	7.2	8.3
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	5%	0%	9%	97%
Vol Thru, %	32%	88%	2%	2%
Vol Right, %	63%	13%	90%	1%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	19	8	115	110
LT Vol	1	0	10	107
Through Vol	6	7	2	2
RT Vol	12	1	103	1
Lane Flow Rate	27	14	164	124
Geometry Grp	1	1	1	1
Degree of Util (X)	0.03	0.017	0.168	0.153
Departure Headway (Hd)	3.972	4.368	3.684	4.454
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	886	824	954	800
Service Time	2.065	2.368	1.783	2.512
HCM Lane V/C Ratio	0.03	0.017	0.172	0.155
HCM Control Delay, s/veh	7.2	7.4	7.5	8.3
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.1	0.1	0.6	0.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	45	800	30	3	667	120	52	51	3	170	61	45
Future Volume (veh/h)	45	800	30	3	667	120	52	51	3	170	61	45
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1811	1870	1870	1811	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	48	851	32	3	725	130	69	68	4	195	70	52
Peak Hour Factor	0.94	0.94	0.94	0.92	0.92	0.92	0.75	0.75	0.75	0.87	0.87	0.87
Percent Heavy Veh, %	2	6	2	2	6	2	2	2	2	2	2	2
Cap, veh/h	189	950	36	162	766	137	255	234	12	328	104	71
Arrive On Green	0.04	0.55	0.55	0.00	0.51	0.51	0.29	0.29	0.29	0.29	0.29	0.29
Sat Flow, veh/h	1781	1734	65	1781	1495	268	662	804	43	894	358	246
Grp Volume(v), veh/h	48	0	883	3	0	855	141	0	0	317	0	0
Grp Sat Flow(s),veh/h/ln	1781	0	1799	1781	0	1763	1509	0	0	1498	0	0
Q Serve(g_s), s	1.0	0.0	37.3	0.1	0.0	39.4	0.0	0.0	0.0	10.2	0.0	0.0
Cycle Q Clear(g_c), s	1.0	0.0	37.3	0.1	0.0	39.4	5.9	0.0	0.0	16.0	0.0	0.0
Prop In Lane	1.00		0.04	1.00		0.15	0.49		0.03	0.62		0.16
Lane Grp Cap(c), veh/h	189	0	986	162	0	903	501	0	0	503	0	0
V/C Ratio(X)	0.25	0.00	0.90	0.02	0.00	0.95	0.28	0.00	0.00	0.63	0.00	0.00
Avail Cap(c_a), veh/h	224	0	986	261	0	957	501	0	0	503	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	18.6	0.0	17.2	16.9	0.0	19.8	23.5	0.0	0.0	27.1	0.0	0.0
Incr Delay (d2), s/veh	0.7	0.0	10.7	0.0	0.0	17.2	1.4	0.0	0.0	5.9	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	0.0	15.4	0.0	0.0	17.7	2.3	0.0	0.0	6.3	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	19.3	0.0	27.9	17.0	0.0	37.0	24.9	0.0	0.0	33.0	0.0	0.0
LnGrp LOS	B		C	B		D	C			C		
Approach Vol, veh/h		931			858			141			317	
Approach Delay, s/veh		27.4			37.0			24.9			33.0	
Approach LOS		C			D			C			C	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		29.4	4.8	51.4		29.4	7.9	48.4				
Change Period (Y+Rc), s		4.5	4.5	4.5		4.5	4.5	4.5				
Max Green Setting (Gmax), s		24.9	5.1	46.5		24.9	5.1	46.5				
Max Q Clear Time (g_c+I1), s		7.9	2.1	39.3		18.0	3.0	41.4				
Green Ext Time (p_c), s		0.6	0.0	3.4		1.0	0.0	2.5				

Intersection Summary												
HCM 7th Control Delay, s/veh			31.7									
HCM 7th LOS			C									

Appendix E

Future Intersection Operational Analysis

Intersection	
Intersection Delay, s/veh	7.3
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	14	30	2	11	10	2	2	4	28	0	1	3
Future Vol, veh/h	14	30	2	11	10	2	2	4	28	0	1	3
Peak Hour Factor	0.75	0.75	0.75	0.65	0.65	0.65	0.33	0.33	0.33	0.75	0.75	0.75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	19	40	3	17	15	3	6	12	85	0	1	4
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	7.5	7.4	7.1	6.8
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	6%	30%	48%	0%
Vol Thru, %	12%	65%	43%	25%
Vol Right, %	82%	4%	9%	75%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	34	46	23	4
LT Vol	2	14	11	0
Through Vol	4	30	10	1
RT Vol	28	2	2	3
Lane Flow Rate	103	61	35	5
Geometry Grp	1	1	1	1
Degree of Util (X)	0.104	0.071	0.041	0.006
Departure Headway (Hd)	3.623	4.186	4.216	3.731
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	982	854	847	949
Service Time	1.674	2.22	2.255	1.792
HCM Lane V/C Ratio	0.105	0.071	0.041	0.005
HCM Control Delay, s/veh	7.1	7.5	7.4	6.8
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.3	0.2	0.1	0

Intersection	
Intersection Delay, s/veh	7.7
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	1	0	7	1	87	0	59	15	38	17	1
Future Vol, veh/h	0	1	0	7	1	87	0	59	15	38	17	1
Peak Hour Factor	0.25	0.25	0.25	0.75	0.75	0.75	0.55	0.55	0.55	0.73	0.73	0.73
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	4	0	9	1	116	0	107	27	52	23	1
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	7.6	7.5	7.9	7.9
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	0%	7%	68%
Vol Thru, %	80%	100%	1%	30%
Vol Right, %	20%	0%	92%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	74	1	95	56
LT Vol	0	0	7	38
Through Vol	59	1	1	17
RT Vol	15	0	87	1
Lane Flow Rate	135	4	127	77
Geometry Grp	1	1	1	1
Degree of Util (X)	0.153	0.005	0.136	0.094
Departure Headway (Hd)	4.101	4.534	3.876	4.395
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	865	793	931	806
Service Time	2.172	2.538	1.876	2.472
HCM Lane V/C Ratio	0.156	0.005	0.136	0.096
HCM Control Delay, s/veh	7.9	7.6	7.5	7.9
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.5	0	0.5	0.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	433	15	7	613	129	50	77	18	128	32	32
Future Volume (veh/h)	22	433	15	7	613	129	50	77	18	128	32	32
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1811	1870	1870	1811	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	22	442	15	8	666	140	62	95	22	138	34	34
Peak Hour Factor	0.98	0.98	0.98	0.92	0.92	0.92	0.81	0.81	0.81	0.93	0.93	0.93
Percent Heavy Veh, %	2	6	2	2	6	2	2	2	2	2	2	2
Cap, veh/h	199	892	30	448	722	152	200	285	58	348	86	68
Arrive On Green	0.03	0.51	0.51	0.01	0.50	0.50	0.28	0.28	0.28	0.28	0.28	0.28
Sat Flow, veh/h	1781	1741	59	1781	1451	305	462	1023	208	931	308	245
Grp Volume(v), veh/h	22	0	457	8	0	806	179	0	0	206	0	0
Grp Sat Flow(s),veh/h/ln	1781	0	1800	1781	0	1756	1693	0	0	1485	0	0
Q Serve(g_s), s	0.4	0.0	11.3	0.2	0.0	28.9	0.0	0.0	0.0	1.7	0.0	0.0
Cycle Q Clear(g_c), s	0.4	0.0	11.3	0.2	0.0	28.9	5.3	0.0	0.0	7.0	0.0	0.0
Prop In Lane	1.00		0.03	1.00		0.17	0.35		0.12	0.67		0.17
Lane Grp Cap(c), veh/h	199	0	922	448	0	874	543	0	0	502	0	0
V/C Ratio(X)	0.11	0.00	0.50	0.02	0.00	0.92	0.33	0.00	0.00	0.41	0.00	0.00
Avail Cap(c_a), veh/h	288	0	995	564	0	970	543	0	0	502	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	14.2	0.0	10.8	9.0	0.0	15.8	19.6	0.0	0.0	20.1	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.0	0.4	0.0	0.0	13.1	1.6	0.0	0.0	2.5	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	3.6	0.0	0.0	12.0	2.3	0.0	0.0	2.8	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	14.4	0.0	11.2	9.1	0.0	28.9	21.2	0.0	0.0	22.6	0.0	0.0
LnGrp LOS	B		B	A		C	C			C		
Approach Vol, veh/h		479			814			179			206	
Approach Delay, s/veh		11.4			28.7			21.2			22.6	
Approach LOS		B			C			C			C	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		23.4	5.2	39.3		23.4	6.2	38.3				
Change Period (Y+Rc), s		4.5	4.5	4.5		4.5	4.5	4.5				
Max Green Setting (Gmax), s		18.9	5.1	37.5		18.9	5.1	37.5				
Max Q Clear Time (g_c+I1), s		7.3	2.2	13.3		9.0	2.4	30.9				
Green Ext Time (p_c), s		0.7	0.0	2.6		0.8	0.0	2.9				

Intersection Summary		
HCM 7th Control Delay, s/veh	22.2	
HCM 7th LOS	C	

Intersection	
Intersection Delay, s/veh	7.5
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	9	14	0	34	22	0	3	10	22	0	14	13
Future Vol, veh/h	9	14	0	34	22	0	3	10	22	0	14	13
Peak Hour Factor	0.66	0.66	0.66	0.55	0.55	0.55	0.58	0.58	0.58	0.69	0.69	0.69
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	14	21	0	62	40	0	5	17	38	0	20	19
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	7.5	7.9	7.2	7.2
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	9%	39%	61%	0%
Vol Thru, %	29%	61%	39%	52%
Vol Right, %	63%	0%	0%	48%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	35	23	56	27
LT Vol	3	9	34	0
Through Vol	10	14	22	14
RT Vol	22	0	0	13
Lane Flow Rate	60	35	102	39
Geometry Grp	1	1	1	1
Degree of Util (X)	0.064	0.041	0.12	0.043
Departure Headway (Hd)	3.841	4.265	4.256	3.93
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	918	833	839	897
Service Time	1.924	2.326	2.3	2.014
HCM Lane V/C Ratio	0.065	0.042	0.122	0.043
HCM Control Delay, s/veh	7.2	7.5	7.9	7.2
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.2	0.1	0.4	0.1

Intersection	
Intersection Delay, s/veh	8.5
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	7	1	20	2	103	1	41	18	107	60	1
Future Vol, veh/h	0	7	1	20	2	103	1	41	18	107	60	1
Peak Hour Factor	0.58	0.58	0.58	0.70	0.70	0.70	0.71	0.71	0.71	0.89	0.89	0.89
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	12	2	29	3	147	1	58	25	120	67	1
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	7.8	8.2	7.9	9
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	2%	0%	16%	64%
Vol Thru, %	68%	88%	2%	36%
Vol Right, %	30%	13%	82%	1%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	60	8	125	168
LT Vol	1	0	20	107
Through Vol	41	7	2	60
RT Vol	18	1	103	1
Lane Flow Rate	85	14	179	189
Geometry Grp	1	1	1	1
Degree of Util (X)	0.103	0.018	0.205	0.239
Departure Headway (Hd)	4.389	4.693	4.125	4.567
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	817	763	871	787
Service Time	2.414	2.718	2.14	2.589
HCM Lane V/C Ratio	0.104	0.018	0.206	0.24
HCM Control Delay, s/veh	7.9	7.8	8.2	9
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0.3	0.1	0.8	0.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	45	800	40	23	667	120	58	68	15	170	89	45
Future Volume (veh/h)	45	800	40	23	667	120	58	68	15	170	89	45
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1811	1870	1870	1811	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	48	851	43	25	725	130	77	91	20	195	102	52
Peak Hour Factor	0.94	0.94	0.94	0.92	0.92	0.92	0.75	0.75	0.75	0.87	0.87	0.87
Percent Heavy Veh, %	2	6	2	2	6	2	2	2	2	2	2	2
Cap, veh/h	184	893	45	160	761	136	215	239	47	295	132	63
Arrive On Green	0.04	0.52	0.52	0.03	0.51	0.51	0.30	0.30	0.30	0.30	0.30	0.30
Sat Flow, veh/h	1781	1709	86	1781	1495	268	528	810	159	780	447	215
Grp Volume(v), veh/h	48	0	894	25	0	855	188	0	0	349	0	0
Grp Sat Flow(s),veh/h/ln	1781	0	1796	1781	0	1763	1498	0	0	1442	0	0
Q Serve(g_s), s	1.1	0.0	40.9	0.6	0.0	40.0	0.0	0.0	0.0	11.3	0.0	0.0
Cycle Q Clear(g_c), s	1.1	0.0	40.9	0.6	0.0	40.0	8.3	0.0	0.0	19.5	0.0	0.0
Prop In Lane	1.00		0.05	1.00		0.15	0.41		0.11	0.56		0.15
Lane Grp Cap(c), veh/h	184	0	938	160	0	897	501	0	0	491	0	0
V/C Ratio(X)	0.26	0.00	0.95	0.16	0.00	0.95	0.38	0.00	0.00	0.71	0.00	0.00
Avail Cap(c_a), veh/h	219	0	954	219	0	937	501	0	0	491	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	19.0	0.0	19.6	19.0	0.0	20.2	24.2	0.0	0.0	28.4	0.0	0.0
Incr Delay (d2), s/veh	0.7	0.0	18.6	0.4	0.0	18.6	2.1	0.0	0.0	8.5	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	0.0	18.9	0.2	0.0	18.3	3.2	0.0	0.0	7.5	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	19.8	0.0	38.3	19.4	0.0	38.9	26.3	0.0	0.0	36.9	0.0	0.0
LnGrp LOS	B		D	B		D	C			D		
Approach Vol, veh/h		942			880			188			349	
Approach Delay, s/veh		37.3			38.3			26.3			36.9	
Approach LOS		D			D			C			D	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		30.0	6.8	49.6		30.0	7.9	48.5				
Change Period (Y+Rc), s		4.5	4.5	4.5		4.5	4.5	4.5				
Max Green Setting (Gmax), s		25.5	5.1	45.9		25.5	5.1	45.9				
Max Q Clear Time (g_c+I1), s		10.3	2.6	42.9		21.5	3.1	42.0				
Green Ext Time (p_c), s		0.9	0.0	1.7		0.8	0.0	2.0				

Intersection Summary	
HCM 7th Control Delay, s/veh	36.7
HCM 7th LOS	D

AGENDA ITEM NO: ___3_____

TO: MAYOR & COUNCIL

FROM: Iris Akridge – Public Works Director

DATE: March 27, 2025

PURPOSE: Proclamation #01-025 in observance of Safe Digging Month April 2025

BACKGROUND: The City of Auburn, in collaboration with Barrow County UCC and Georgia 811, is promoting National Safe Digging Month every April to mark the start of peak digging season. This initiative aims to raise awareness among contractors and homeowners about the importance of the national 811 notification system.

By dialing 811, residents of Auburn can inform local utility operators of their digging plans, ensuring that underground utilities are located before any project begins. This system is crucial for preventing damage to underground utilities and ensuring the safety of Auburn's residents.

FUNDING: **N/A**

RECOMMENDATION: To approve Proclamation #01-025 recognizing April 2025 as Safe Digging Month.

Barrow County UCC and Georgia 811

4/1/25

Office of the Mayor of Auburn
1 Auburn Way
P.O. Box 1059
Auburn, GA 30011

Re: National Safe Digging Month

The Barrow Utility Coordinating Committee (UCC) has partnered with Georgia 811 for many years to promote National Safe Digging Month each April, coinciding with the start of peak digging season. This initiative aims to increase awareness among contractors and homeowners about the national 811 notification system. By contacting 811, homeowners are connected to Georgia 811, which then notifies the relevant utility companies of the intent to dig. Professional locators are dispatched to mark the approximate locations of underground lines with flags or spray paint. Once these lines are accurately marked, digging can safely commence around them. The 811-notification system is crucial for preventing damage to underground utilities and ensuring the safety of Auburn residents.

Barrow UCC values the ongoing support of the City of Auburn in local utility coordination efforts and is requesting Mayor Richard E. Roquemore to publicly proclaim April 2025 as Safe Digging Month and emphasize the importance of contacting 811 before digging.

Here are some ways Mayor Roquemore can show support for Safe Digging Month:

- Issue an official proclamation of Auburn Safe Digging Month from the Office of the Mayor.
- Post Auburn Safe Digging Month messages on the City of Auburn's social media sites. Georgia 811 has prepared social media messages available on its Safe Digging Month page.
- Record a public service announcement to air on local radio stations or social media during Safe Digging Month.

We appreciate your support for this initiative. For more information on National Safe Digging Month, visit www.Georgia811.com or contact me directly.

Regards,

Samantha McDaniel
Barrow UCC Representative

PROCLAMATION NO. 01-025

WHEREAS,

Thousands of times each year, the underground infrastructure in Georgia is damaged by those who do not have underground lines located prior to digging, resulting in service interruption, environmental damage, and threat to public safety, and;

WHEREAS,

In 2005, the Federal Communications Commission designated 811 to provide contractors and homeowners with a simple number to contact utility operators to request the location of underground lines at the intended dig site, and;

WHEREAS,

The Barrow County Utility Coordinating Committee, a stakeholder-driven organization dedicated to the prevention of damage to underground utilities in Georgia, promotes the National 811 Notification System to reduce these damages, and;

WHEREAS,

Damage prevention is a shared responsibility; by using safe digging practices, the contractors and homeowners of the City of Auburn can save time, money and help keep our infrastructure safe and connected, and;

THEREFORE,

I do hereby proclaim, on behalf of the City of Auburn, the month of April 2025 as:

City of Auburn Safe Digging Month

And encourage contractors and homeowners throughout the City of Auburn to always call 811 before digging. Safe digging is no accident!!

_____
Richard E. Roquemore, Mayor

_____
Robert L. Vogel III, Council Member

_____
Taylor J. Sisk, Council Member

_____
Jamie L. Bradley, Council Member

_____
Joshua Rowan, Council Member

Attest:

_____
Michael E. Parks, City Admin.

AGENDA ITEM: 4

TO: Mayor and Council

FROM: Michael Parks
City Administrator

DATE: March 27, 2025

PURPOSE: The proposed Park located on 6th Street was approved by council on April 7, 2016. Staff would like to discuss moving forward with this project.

BACKGROUND: The proposed Park will be constructed off 6th Street across from the rear entrance to Auburn Elementary.
The new neighborhood (pocket) park concept will include and/or address the following:

- Dog park: fenced in areas for large and small dogs.
- Park entry access from 6th Street:
  - Create a loop drive for parents pick up/drop off to adjacent Elementary School
  - Integrate entry with parking area options for park users.
  - Provide landscape design for entry, to include location for park sign.
- Recommendations for prefabricated Picnic Pavilion and/or other prefabricated park structures.
- Walking trail(s) – multi-use.
- Site furnishings: Benches, Picnic Tables, Water Fountain, Pet Waste Stations, Trash and/or Recycling Receptacles, Pedestrian Lighting, etc.
- General Landscape improvements for site.

RECOMMENDATION: To Approve CPL Design presented by staff.

FUNDING: SPLOST

ATTACHMENTS: 6th Street Park Design Concepts by Bowman, CPL and Lose Design Spaces for Life

February 28, 2025

Michael Parks, City Administrator
City of Auburn
1 Auburn Way
Auburn, Georgia 30011
mparks@cityofauburn-ga.org

Re: New Park at 6th Concept Design Proposal

Dear Mr. Michael Parks,

CPL Architecture, Engineering, and Planning is pleased to submit this proposal for professional design services for the conceptual design plan for a neighborhood ("pocket") park at 6th Street (Parcel ID AU11 059) with amenities to include a dog park, park entry (vehicular loop) with parking, signage at 6th street, and other park elements listed below to be considered for the site plan.

Program of Park Concept

The new neighborhood (pocket) park concept will include and/or address the following:

- Dog park: fenced in areas for large and small dogs.
- Park entry access from 6th Street:
  - Create a loop drive for parent pick up/drop off to adjacent Elementary School
  - Integrate entry with parking area options for park users.
  - Provide landscape design for entry, to include location for park sign.
- Recommendations for a prefabricated Picnic Pavilion and/or other prefabricated park structures.
- Walking trail(s) – Multi-use.
- Site furnishings: Benches, Picnic Tables, Water Fountain, Pet Waste Stations, Trash and/or Recycling Receptacles, Pedestrian Lighting, etc.
- General Landscape improvements for site.

Scope of Work & Deliverables

Professional Consultant Services will be provided by CPL in accordance with a developed scope of services. The following workflow process represents the Scope of Work needed to develop a neighborhood park concept plan. Detailed Project understandings, assumptions, and exclusions are considered as part of the final scope.

Phase 1 – Design Development Drawings

1. Pre-design – Data collection and Research (site visit time included).

2. Base Sheet Preparation – CPL will use an existing survey, GIS, aerial photography, and/or a field generated data of current conditions gathered during the Pre-design site visit to generate a base map to complete proposed park concept designs.

3. Project Kick-off Meeting – Review of Constraints & Program (Visioning). Meeting time is included to review the base map and program elements.

4. Preliminary Site Design – Design team to prepare one (1) hand drawn, black and white concept plan to illustrate potential layout and arrangement of program elements.

5. Review Meeting of Preliminary Concept Design – CPL design team to meet with City Officials prior to completing the final concept design and estimate of probable costs.
    a. On-site review of concept is recommended.

6. Final Concept Plan – Based upon the direction established and any adjustments required following the review of the preliminary concept, a final rendered plan with labels shall be provided. As part of advancing the design, precedent imagery will be provided for recommended furnishings and proposed site structures. Final Concept Plan Drawing(s) will clearly indicate the following program elements:
    a. Landscaped Areas and types of plantings.
    b. Pavement areas and types of materials.
    c. Types and location of seating.
    d. Types and location of lighting.
    e. Types and location of park structures.
    f. Conceptual grades and drainage.

7. Estimate of Probable Costs.

8. Review of Final Concept Plan / Community Meeting Presentation (Auburn, Ga).
    a. Final concept drawing with labels, image board(s), and estimate of probable costs will be provided to the Client for final review and comment. Time has been allocated in this task for a meeting with Client and minor adjustments to the final concept plan as directed by the Client.

Phase 2 – Construction Documents (TBD)

Based upon final approval of the Concept Design completed in Phase 1, the project's budget and any adjustments in the scope or quality of the project directed at this time, CPL will prepare Construction Documents (CDs). CDs will consist of drawings and specifications, providing information necessary for final pricing and installation of site work.

1. Site Survey – A topographic survey of the park parcel and adjacent areas along 6th Street is required prior to start of Construction Drawings, to be provided by the City of Auburn.

2. Construction Documents, Permitting, Bidding, and Construction Administration (TBD).

Fee Proposal

CPL will perform the Phase 1 scope of work outlined above for the lump sum amount specified below. Any additional services beyond this scope may be provided on an hourly basis, in accordance with the hourly rates listed in Appendix 'B'. Our fees for the scope are as follows:

Phase 1 Design – Development Drawings:

1.	Pre-design – Data Collection (Site Visit)	$ 1,020.00
2.	Base Sheet Preparation	$ 855.00
3.	Project Kick-off Meeting	$ 510.00
4.	Preliminary Site Design Concepts (2 – 3 Concepts)	$ 2,220.00
5.	Review of Preliminary Concepts (Meeting)	$ 675.00
6.	Final Concept Plan (Rendering)	$ 2,040.00
7.	Estimate of Probable Costs	$ 1,590.00
8.	Review of Final Concept Plan / Community Meeting Presentation	$ 765.00
	Budget Estimate for mileage, plots, copies, etc.	$ 200.00
	Subtotal for Phase 1:	**$ 9,875.00**

Phase 2 – Construction Documents:

1.	Topographical Survey (by Others)	
2.	Construction Documents, Permitting, Bidding, and Construction Administration	$ *TBD*

CPL will not exceed the estimated design budget without authorization from the Client. Direct expenses will be billed at cost plus 15%. Direct expenses include, but are not limited to, reproduction cost, courier services, mileage, etc.

ASSUMPTIONS & CONCLUSIONS

- Property is owned by the City of Auburn.
- Client (City of Auburn) to provide CAD drawing files of existing survey.
- Fee does not include construction documents, permitting, bidding, or construction administration services.
- Permitting and permit related review fees are not included in the scope.
- A topographical survey of the entire site will be provided by the City prior to Phase 2 – Construction Documents.
- Preliminary site plans will be provided in freehand sketch.
- The existing pump station on site is excluded from the park design and will not be modified for the conceptual site plan.
- Geotechnical borings are not in this contract.
- There is no need for wetland delineation.
- Number of meetings are limited to those specified in the scope of work.
- Unsuitable soil or rock are not anticipated.
- No environmental or archeological studies are needed.
- Client will provide all existing data and access to data for the design team.

- No public involvement is anticipated.
- There are no state waters within 200 feet of the proposed construction zone.
- Water, power, and sewer are assumed to be available to the site.
- No irrigation design is anticipated at this time.
- Pavilions and playgrounds will be prefabricated selections if Client decides to include in park.
- No architectural drawings are anticipated in this fee.

TERMS AND CONDITIONS:

This agreement shall be administered in accordance with the Terms and Conditions listed in Appendix "A" attached hereto.

This document together with the exhibits and/or appendices identified herein constitutes the entire understanding between the City of Auburn City, Georgia and CPL with respect to the work to be performed by CPL for the benefit of the City of Auburn City, Georgia and may only be modified in writing signed by both parties. Please sign and return the enclosed copy of this letter if this document satisfactorily sets forth the understanding of the arrangement between the City of Auburn City, Georgia and CPL. Receipt of the signed agreement will serve as our notice to proceed. This Contract will be open for acceptance for sixty days from the date of this letter.

We look forward to working with you on this project.

Sincerely,

Rebecca Keefer, AICP
Principal

IN WITNESS OF THE FOREGOING, the Parties have set their hands and sealed the day and year first written above.

CITY OF AUBURN:

BY: _____ ATTEST: _____

APPENDIX 'A'
TERMS AND CONDITIONS

1. Clark Patterson Lee (hereinafter called "CPL") shall perform the services defined in this Letter Agreement and Client agrees to pay CPL for said services as set forth below.

2. All documents including Drawings and Specifications prepared by CPL are instruments of service in respect to the Project. They are not intended or represented to be suitable for reuse by Client or others on extensions of the Project or on any other project. Any reuse without written verification or adaptation by CPL for the specific purpose intended will be at Clients sole risk and without liability or legal exposure to CPL. Any such verification or adaptation will entitle CPL to further compensation at rates to be agreed upon by Client and CPL.

3. Client agrees to additionally compensate CPL for services resulting from significant changes in general scope of Project, for revising previously accepted reports, studies, design documents, or Contract Documents, or for delays caused by others rather than CPL.

4. The hourly rates outlined in this contract are subject to an annual increase of up to 5 percent. This adjustment will take effect at the beginning of the calendar year.

5. Construction cost estimates prepared by CPL represents CPL's best judgment as professionals familiar with the construction industry. It is recognized, however, that CPL has no control over cost of labor, materials, or equipment, over contractors' methods of determining bid prices, or over competitive bidding or market conditions. CPL cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from cost estimates prepared by CPL.

6. If requested by Client or if required by the scope of services of the Agreement, CPL shall visit the site at intervals appropriate to the stage of construction to become generally familiar with the progress and quality of the work and to determine in general if the work is proceeding in accordance with the Contract Documents. However, CPL shall not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the work. CPL shall not have control or charge of and shall not be responsible for construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs in connection with the Work, for the acts or omissions of the contractor, subcontractors, or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with the Contract Documents.

7. Surveying will be provided as stated in the Agreement. Surveying provided on an hourly basis will be charged with a 4-hour minimum at the hourly rates in effect at the time the service is performed. Replacement of survey markers resulting from contractor disturbance or vandalism will be accomplished on an hourly basis.

8. The cost of permits, fees, toll telephone calls, courier service, reproduction of reports, Drawings, and Specifications, transportation in connection with the Project, and other out of pocket expenses will be reimbursed to CPL by Client at cost plus 15%.

9. CPL shall submit monthly statements for services rendered and for reimbursable expenses incurred. Statements will be based upon CPL's time of billing. Payment is due upon receipt of CPL's Statement. If Client fails to make any payment due CPL for services and expenses within 30 days after the date of CPL's statement therefore, the amounts due CPL shall include a charge at the rate of 1.5% per month (18% per annum), or portion thereof, from said 30th day, and, in addition, CPL may, after giving 7 days' written notice to Client, suspend services under this Agreement until CPL has been paid in full all amounts due CPL are collected through an attorney or collection agency, Client shall pay all fees and costs of collection.

10. This Agreement may be terminated by either party upon 7 days' written notice should the other party fail substantially to perform in accordance with its terms through no fault to the party initiating termination, or in the event Project is cancelled. In the event of termination, CPL shall be paid the compensation plus Reimbursable Expenses due for services performed to termination date.

11. This Agreement shall be governed by the laws of the State Georgia. Liability shall be limited to amount of the fees paid for professional services.

12. The services to be performed by CPL under this Agreement are intended solely for the benefit of the Client. Nothing contained herein shall confer any rights upon or create any duties on the part of CPL toward any persons not a party to this Agreement including, but not limited to, any contractor, subcontractor, supplier, or the agents, officers, employees, insurers, or sureties of any of them.

13. Client and CPL each binds himself and his partners, successors, executors, administrators, and assigns to the other party to this Agreement and to the partners, successors, executors, administrators, and assigns of such other party, in respect to all covenants of this Agreement. Neither Client nor CPL shall assign, sublet, or transfer his interest in this Agreement without the written consent of the other; however, CPL may employ others to assist in the carrying out of duties under this Agreement.

14. Client and CPL each binds himself and his partners, successors, executors, administrators, and assigns to the other party to this Agreement and to the partners, successors, executors, administrators, and assigns of such other party, in respect to all covenants of this Agreement. Neither Client nor CPL shall assign, sublet, or transfer his interest in this Agreement without the written consent of the other; however, CPL may employ others to assist in the carrying out of duties under this Agreement.

15. In the event the Client, the Client's contractors or subcontractors, or anyone for whom the Client is legally liable makes or permits to be made any changes to any reports, plans, specifications or other construction documents, including electronic files, prepared by CPL without obtaining CPL's prior written consent, the Client shall assume full responsibility for the results of such changes. Therefore, the Client agrees to waive any claim against CPL and to release CPL from any liability arising directly or indirectly from such changes. In addition, the Client agrees, to the fullest extent permitted by law, to indemnify and hold harmless CPL from any damages, liabilities or costs, including reasonable attorneys' fees and costs of defense, arising from such changes. The Client also agrees to include in any contracts for construction appropriate language that prohibits the Contractor or any subcontractors of any tier from making any changes or modifications to CPL's construction documents, including electronic files, without the prior written approval of CPL and that further requires the Contractor to indemnify both CPL and the Client from any liability or cost arising from such changes made without such proper authorization.

APPENDIX 'B'
CPL HOURLY RATES

BILLING ROLE	*BILLING RATE*
Principal Architect/Engineer/Planner	$ 270.00
Principal Consultant	$ 180.00
Project Manager	$ 180.00
Senior Planner	$ 165.00
Senior Architect	$ 165.00
Senior Engineer MEP	$ 165.00
Senior Landscape Architect	$ 165.00
Senior Engineer Civil/Structural	$ 150.00
Senior Interior Designer	$ 150.00
Planner	$ 135.00
Project Architect	$ 135.00
Project Engineer MEP	$ 135.00
Project Engineer Civil/Structural	$ 120.00
Resident Observer	$ 120.00
Interior Designer	$ 105.00
Junior Planner	$ 90.00
Junior Engineer	$ 90.00
Junior Draftsperson	$ 90.00
Clerical | Administrative	$ 75.00
Municipal Services	
Building Plans Examiner	$ 150.00
Building Inspector	$ 135.00
Building Official	$ 135.00
Senior Code Enforcement Officer	$ 120.00
Soil and Erosion Control Supervisor	$ 120.00
Soil and Erosion Control Inspector	$ 105.00
Permit Technician	$ 75.00

Bowman

February 24, 2025

Michael Parks
City Administrator
City of Auburn
1 Auburn Way
Auburn, Georgia 30011

Re: **City of Auburn 6th Street Dog Park**(the "Project")
Land lot 104, 10th District
Auburn, Barrow County, Georgia 30523
Proposal to provide Survey and Engineering Services (the "Proposal")
Proposal No. 25-0213

Dear Michael Parks:

We are pleased to submit this Proposal to provide Survey and Engineering services for the above referenced Project. Upon verbal or written direction to proceed with performance of the services described herein, this Proposal, along with all attachments thereto, will constitute a binding agreement (the "Agreement") between Bowman Consulting Group Ltd. ("Bowman") and City of Auburn (the "Client").

SCOPE OF SERVICES AND FEES

The scope of services (the "Scope") and associated fees shall be as follows:

Task	Description	Fee Type	Total
1	**Boundary & Topographic Survey & Legal Description** ▪ Bowman will complete a Boundary & Topographic Survey of the approximate 4.4-acre tract of land known as Barrow County tax parcel AU11 059 located at 63 6th Street, Auburn, GA 30011, now or formerly owned by City of Auburn. The survey will meet the minimum technical standards as outlined in Chapter 180-7, Technical Standards of Land Surveying, of the Rules and Regulations of the State of Georgia and will include the signed certification of a Georgia Registered Land Surveyor. All survey data will be oriented to NAD 83 (2011) Georgia State Plane Coordinates (GA WEST ZONE) and North American Vertical Datum of 1988 (NAVD 88). Appropriate research will be performed within the Barrow County Clerk of Court office to obtain deeds and plats to establish boundary lines of the site. The contour interval of the topography will be one (1) foot. The survey will include, but not limited to, the location of curb and gutter, parking, walls, buildings, slopes, fences, creeks, and water features, etc. Bowman will provide a Legal description of the property.	Lump Sum	$5,920.00
2	**Concept Planning** ▪ Bowman will use the survey information obtained in Task 1 including the existing lift station and stream location to prepare a concept plan showing the proposed enclosed dog park, parking, pavilion, and sidewalk that meets the city of Auburn development code.	Lump Sum	$2,500.00

Bowman

3	**Engineering Design** • Bowman will use the approved Concept Plan from Task 2 to prepare a construction set of plans including grading, drainage, stormwater hydrology, runoff reduction/water quality, erosion and sediment control, and construction details.	Lump Sum	$15,000.00
4	**Permitting** • Bowman will aide the Client in obtaining necessary permits for construction.	Hourly NTE	$5,000.00
		Total Estimated Fees	**$28,420.00**

Bowman

REIMBURSABLE EXPENSES

Reimbursable expenses shall include actual expenditures made by Bowman in the interest of the Project and will be invoiced at the actual cost to Bowman plus fifteen percent (15%) for handling and indirect costs. Reimbursable expenses shall include but not be limited to costs of the following:

- Mailing, shipping, and out source delivery (i.e. DHL, FedEx) costs.
- Fees and expenses of special consultants as authorized by the Client.
- Parking fees and mileage for employee travel by car to facilitate the project.

REPROGRAPHIC AND COURIER CHARGES

Reprographic, plotting, in-house courier, and archive retrieval services will be invoiced in accordance with Schedule A attached hereto.

OTHER TERMS

This proposal is based on the scope of services indicated herein and the information available at the time of the proposal preparation. If any additional services are required due to unforeseen circumstances and/or conditions, client or regulatory requested revisions, additional meetings, regulatory changes, etc., Bowman will notify the client that additional scope of work and fees are required and will obtain the client's written approval prior to proceeding with any additional work.

Bowman's Standard Terms and Conditions and Hourly Rate Schedule are attached hereto and incorporated into this Proposal by reference.

Please indicate your acceptance of this proposal by executing below and returning a copy to this office. Thank you for the opportunity to provide service to City of Auburn.

Sincerely,

Bowman Consulting Group Ltd.

David Patterson

David Patterson
Team Lead, Landscape Architecture

City of Auburn hereby accepts all terms and conditions of this Proposal (including the Standard Terms and Conditions) and authorizes Bowman to proceed with the Project, and the undersigned represents that he or she is authorized by City of Auburn to so execute this Proposal.

City of Auburn

By:

Title:
Date:

Bowman

SCHEDULE A - FEES FOR REPROGRAPHIC, DELIVERY, TRAVEL AND OTHER SERVICES

January 2024

Reprographic Services

B&W Photo Copies	$0.35/sf, or $0.23 for 8-1/2" x11" sheet
Color Photo Copies	$0.50/sf, or $0.32 for 8-1/2" x11" sheet
Printing (bond)	$0.35/sf, or $2.10 for 24" x 36" sheet
Printing (mylar)	$3.00/sf, or $18.00 for 24" x 36" sheet

Binding, Mounting and Folding of plan sets, reports, or drawings will be invoiced at our standard hourly rates. Copying of Plans that have been archived in storage is subject to a minimum archive retrieval fee of $50 plus applicable reprographic fees above.

Delivery Services

In-house delivery services are invoiced at $2.00 per mile (one way) and subject to a minimum $20.00 charge for standard delivery during normal business hours. Rush services and times outside normal business hours are subject to a minimum $20.00 surcharge.

Outsourced courier services (i.e. Federal Express, DHL, etc.) are invoiced at cost plus 15%.

Travel

Mileage for employee travel by car to facilitate the project, including travel to the project site and for meetings with the client, project team, contractors, or governmental agencies, will be invoiced at the current IRS standard mileage rate.

Airfare and/or lodging to facilitate the project will be coordinated with the client in advance and will be invoiced at cost plus 15%.

Miscellaneous

Other costs associated with sub-consultants, specialty equipment, laboratory testing, field testing, tolls, parking or other miscellaneous items will be invoiced at cost plus 15%.

Initials: Bowman D.P. / Client

Bowman

BOWMAN CONSULTING GROUP LTD.

SCHEDULE B - HOURLY RATE

January 2025

CLASSIFICATION	HOURLY RATES
Senior Principal	$345.00/HR
Principal	$320.00/HR
Department Executive	$270.00/HR
Senior Project Manager	$245.00/HR
Project Manager	$210.00/HR
Project Coordinator	$120.00/HR
Senior Surveyor	$245.00/HR
Engineer I | II | III	$135.00/HR | $145.00/HR | $165.00/HR
Planner I | II | III	$130.00/HR | $140.00/HR | $180.00/HR
Designer I | II | III	$130.00/HR | $140.00/HR | $150.00/HR
CADD Drafter I | II | III	$ 95.00/HR | $120.00/HR | $130.00/HR
Construction Inspector	$120.00/HR
Landscape Architect I | II | III	$130.00/HR | $145.00/HR | $185.00/HR
GIS Developer I | II | III	$130.00/HR | $170.00/HR | $205.00/HR
Senior Environmental Scientist	$200.00/HR
Environmental Scientist I | II | III	$125.00/HR | $155.00/HR | $185.00/HR
Right of Way Specialist I | II | III	$100.00/HR | $120.00/HR | $145.00/HR
Survey Technician I | II | III	$110.00/HR | $130.00/HR | $150.00/HR
Project Surveyor	$190.00/HR
Survey Field Crew – 1 Man	$155.00/HR
Survey Field Crew – 2 Man	$195.00/HR
Survey Field Crew – 3 Man	$250.00/HR
3D Scanning Crew	$285.00/HR
Survey Field Technician	$100.00/HR
3D/UAV Modeling Technician	$180.00/HR
UAV Operation	$320.00/HR
SUE Field Crew - 1 Man	$155.00/HR
SUE Field Crew - 2 Man	$200.00/HR
SUE Field Crew - 3 Man	$260.00/HR
SUE Field Crew - 4 Man	$295.00/HR
SUE Utility Coordinator	$200.00/HR
SUE Technician I | II | III	$120.00/HR | $135.00/HR | $160.00/HR
Machine Control Technician	$270.00/HR
Administrative Professional	$100.00/HR
Remote Sensing Technician I | II | III	$110.00/HR | $130.00/HR | $150.00/HR

Initials: Bowman / Client

Table 1812018 - DEFAULT 2025 Florida/Georgia

D.P.

Bowman

SCHEDULE C - REQUEST FOR INFORMATION

Accounts Payable Contact:

Point of Contact:

Phone:

Fax:

E-Mail:

Billing Information:

Billing Entity:

Billing Address: ☐ **Same as Proposal**

☐ **If Different, Please Provide:**

Billing Requirements:

Invoice Due Date:

Requirements/Attachments:

Invoices Transmitted Via Electronic Mail to:

Offer ACH Direct Deposit: ☐ **Yes, Contact:**

☐ **Not Sure, Contact Our Office**

☐ **Not At This Time**

Initials: Bowman D.P. / Client

Bowman

BOWMAN CONSULTING GROUP LTD.
TERMS AND CONDITIONS

These Terms and Conditions are incorporated by reference into the Proposal and its exhibits (the "Proposal") from **Bowman Consulting Group Ltd.** ("Bowman") to **City of Auburn** ("Client") for performance of services described in the Proposal and associated with the project described in the Proposal (the "Project"), and in any subsequent approved Change Order related to the Project. These Terms and Conditions, the accepted Proposal, and any Change Orders or other amendments thereto, shall constitute a final, complete, and binding agreement (the "Agreement") between Bowman and Client, and supersede any previous agreement or understanding.

1. Scope of Services. Bowman will provide the services expressly described in and limited by the Proposal (the "Scope"). If in Bowman's professional judgment the Scope must be expanded or revised, Bowman will forward a change order agreement to Client that describes the revision to the Scope (the "Change Order") and the adjusted fee associated therewith.

2. Standard of Care. The standard of care for all services performed by Bowman for Client shall be the care and skill ordinarily used by members of the applicable profession practicing under similar circumstances at the same time and locality of the Project. Client shall not rely upon the correctness or completeness of any design or document prepared by Bowman unless such design or document has been properly signed and sealed by a licensed professional on behalf of Bowman.

3. Payment Terms. Bowman will invoice Client monthly or more frequently based on a percentage of the work completed for lump sum tasks, number of units completed for unit tasks, and actual hours spent for hourly tasks. Invoices are due and payable in full upon receipt without offset of any kind or for any reason. Bowman shall have the discretion to apply payments made by Client to an invoice or retainer account of Client in accordance with its business practices. Client agrees to pay a finance charge of one and one-half percent (1.5%) per month from the invoice date on any unpaid balance not received by Bowman within thirty (30) days of the invoice date. Payment of invoices is subject to the following further terms and conditions:

(a) If any invoice is not paid in full within forty-five (45) days of the invoice date, and Client has not timely and in good faith disputed the invoice as provided below, Bowman shall have the right at its election by giving notice to Client to either: (i) suspend the performance of further services under this Agreement and, at its sole discretion, suspend the performance of further services on other projects which are being performed by Bowman on behalf of Client or any related Client entities, until all invoices are paid in full and Bowman has received a retainer in such amount as Bowman deems appropriate to be held as described below; or (ii) deem Client to be in material breach of this Agreement and proceed pursuant to Section 17 below. Client agrees to pay any and all charges, costs or fees incurred in collection of unpaid invoices, including reasonable attorneys' fees and costs. Following Bowman's election above, Bowman shall bear no liability to Client or any other person or entity for any loss, liability or damage resulting from any resulting delay, and any schedule for the performance of services hereunder prepared previously shall be deemed void with any future schedule for the performance of services requiring the approval of both Client and Bowman.

(b) If Client disputes any submitted invoice, Client shall give written notice to Bowman within thirty (30) days of the invoice date detailing the dispute. If no written notice of a dispute is provided to Bowman within that time period, the invoice shall then be conclusively deemed good and correct. If part of an invoice is disputed, Client shall remain liable to timely pay the undisputed portion of the invoice in accordance with the terms of this Agreement. Client and Bowman shall promptly negotiate in good faith to resolve any disputed portion of an invoice.

4. Retainer and Other Payments. Bowman reserves the right to require that Client make a payment to be held by Bowman as an advance against future billings (the "Retainer"). The Retainer is not intended as the regular source of payment for invoices issued to Client under this Agreement or otherwise, and the parties intend that the Retainer be applied to the final invoice for the services described in the Agreement, or against any other unpaid amounts owed to Bowman should Client (or any affiliate of Client) fail to timely pay invoices due Bowman. The Retainer account may consist in part of payments applied by Bowman pursuant to the authority granted it under Paragraph 3 above. If the Retainer is applied during the course of the Agreement, Client agrees to promptly replenish the Retainer upon request of Bowman. Upon the conclusion of this Agreement, or its earlier termination, Bowman shall (a) apply the Retainer to any unpaid amount owed Bowman by Client (or its affiliates), and (b) return any unapplied portion to Client. The Retainer shall not be required to be held in a separate account nor shall it bear interest, and the Retainer may include other amounts paid to Bowman by Client with respect to the Project or other projects.

5. Client Duties and Responsibilities. Client shall inform Bowman of any special criteria or requirements related to the Project or Scope, and shall timely and at its cost furnish any and all information in its possession relating to the Project, including reports, plans, drawings, surveys, deeds, topographical information and/or title reports. Bowman shall bear no responsibility for errors, omissions, inaccuracy or incompleteness in third-party information or additional costs arising out of its reliance upon such third-party information supplied by Client. Client warrants and represents that: (a) Client has obtained the full and unconditioned prior written consent from

any third-party for Bowman to use such third-party information; (b) such consent shall be provided to Bowman upon request; and (c) such consent shall be in a form that, in Bowman's reasonable discretion, does not violate any applicable law, regulation, or code of ethics. If the Scope requires a current title report, Client shall timely and at its cost provide such title report to Bowman. If the Scope includes preparation of plats to be recorded in the land records of the Project jurisdiction, Client shall timely prepare, submit, and record necessary deeds and pay all recording fees associated with deeds and plats. All off-site easements are the responsibility of Client. Client shall indemnify and hold harmless Bowman from and against any and all claims, demands, losses, costs, and liabilities, including without limitation reasonable attorney fees and expenses incurred by Bowman and arising out of (a) Client's breach of this Agreement or (b) an action by Client or a third-party with respect to any matter not included in the Scope or that is excluded from the responsibility of Bowman pursuant to this Agreement.

6. Insurance. Bowman and its employees are protected by workman's compensation, commercial general liability, automobile liability, and professional liability insurance policies. Upon request of Client, Bowman shall provide a certificate of insurance to Client evidencing such coverage and shall attempt to include Client as an additional insured on those coverages that permit additional insured status. Client acknowledges it has been offered the opportunity to review the current limits of such coverage and finds them satisfactory, and further agrees that in no event shall Bowman's liability to Client or any party claiming through Client be greater than the limits of such insurance. From time to time Bowman may, without notice to Client, amend the carriers, conditions, exclusions, deductibles or limits of any such insurance; provided that prior to any decrease in any insurance limit becoming effective Bowman shall give notice thereof to Client.

7. Potential Liability of Bowman. The following provisions shall operate with respect to any potential liability of Bowman arising under the Agreement:

(a) Client may not assert that there is a breach, defect, error, omission or negligence in the services performed by Bowman that Client believes creates liability on the part of Bowman unless Client gave written notice to Bowman not later than the first to occur of (i) the beginning of any corrective work, or (ii) thirty (30) days after Client had knowledge of the existence of the breach, defect, error, omission or negligence. Bowman shall have the opportunity to participate in decisions regarding the corrective work, and Client shall ensure that corrective action is taken at the lowest reasonable expense under the circumstances.

(b) Notwithstanding any other provision of this Agreement, the total liability, in the aggregate, of Bowman and Bowman's officers, directors, partners, employees, agents, and consultants to Client and anyone claiming through Client, shall not in any manner whatsoever exceed the direct losses incurred by Client (to the extent of and in proportion to Bowman's comparative degree of fault) that resulted from the error, omission or negligent act of Bowman in the performance of services under this Agreement.

(c) To the fullest extent permitted by law, Bowman and Bowman's officers, directors, partners, employees, agents, and sub-consultants shall not be liable to Client or anyone claiming through Client for any special, incidental, indirect, or consequential damages whatsoever arising out of, resulting from, or in any way related to the Project or this Agreement, regardless of whether such damages are alleged to be caused by the negligence, professional errors or omissions, strict liability, breach of contract, or breach of express or implied warranty.

(d) Client agrees that Bowman's shareholders, principals, partners, members, agents, directors, officers and/or employees shall have no personal liability whatsoever arising out of or in connection with this Agreement or the performance of services hereunder.

8. Certificate of Merit. In addition to the requirement of notice under section 7(a) above, Client shall make no claim (whether directly or in the form of a third-party claim) against Bowman unless Client shall have first provided Bowman with a written certification executed by an independent professional licensed in the state in which the Project is located and licensed in the profession to which the claim relates. Such certificate shall: (a) contain the name and license number of the certifier; (b) specify each and every act or omission which the certifier contends constitutes a violation of the standard of care expected of a professional performing professional services under similar circumstances; (c) state in complete detail the basis for the certifier's opinion that each such act or omission constitutes such a violation; and (d) be provided to Bowman thirty (30) days prior to the presentation of and as a precondition to any such claim, or the institution of any mediation, arbitration, judicial or other dispute resolution proceeding.

9. Conflict Resolution and Applicable Law. Any dispute, controversy or claim arising out of or relating to this Agreement, or the breach thereof, that cannot be resolved by the parties and for which the amount in controversy is less than One Hundred Thousand Dollars ($100,000.00) shall be settled by arbitration administered in Fairfax County, Virginia by the American Arbitration Association in accordance with its Commercial Arbitration Rules and Expedited Procedures, and judgment on the award rendered by the arbitrator(s) may be entered in any court having jurisdiction over the parties. For any other dispute, controversy or claim arising out of or relating to this Agreement, or the breach thereof, the parties agree to first submit such dispute, controversy or claim to non-binding mediation, with each party to bear its own costs of such mediation and to equally share the costs of any mediator. If such mediation does not successfully resolve all issues, then the parties agree that the state and federal courts located in Virginia shall have jurisdiction and

venue over such dispute. This Agreement shall be governed and interpreted in accordance with the laws of the state in which the Project is located, without giving effect to conflicts of laws principles thereof.

10. Ownership of Documents and Other Rights of Bowman.
(a) All reports, plans, specifications, computer files, field data, notes, and other documents and instruments prepared by Bowman as instruments of service ("Work Product") shall remain the property of Bowman up until such time as all monies due to Bowman have been paid in full, at which time (i) Client may take possession of the Work Product, and (ii) Bowman shall be deemed to have granted Client a fully paid, non-exclusive license to use the same solely for the Project. Subject to such license Bowman shall retain all common law, statutory, and other reserved rights, including the copyright to all Work Product. If Client or a party acting on Client's behalf modifies any part of the Work Product or reuses them on a different project, Client agrees to indemnify and hold Bowman harmless from any claim, liability or cost (including reasonable attorneys' fees and defense costs) arising therefrom. Client acknowledges that if Bowman provides Client with Work Product in an electronic or digital format ("Electronic Data"), Client is responsible for cross checking the Electronic Data with the applicable paper document for full conformance and consistency between such paper document and the Electronic Data.

(b) Bowman reserves the right to include photographs and descriptions of the Project in its promotional, marketing, and professional materials. Client grants its consent to Bowman for Bowman to install reasonable signage at the Project equivalent to that which is or could be installed by other vendors to the Project.

11. Modification. From time to time Bowman may either in writing or by electronic mail submit a Change Order to Client and Client shall be deemed to have approved such Change Order if: (a) Client signs the Change Order; (b) Client signifies its consent to the Change Order by electronic mail; or (c) a representative of Client with actual or apparent authority to approve the Change Order orally approves it and Bowman subsequently confirms such approval in writing or by email and begins work associated therewith without receiving written or electronic mail objection thereto. Except for Change Orders authorized by Client as provided immediately above, this Agreement may be amended, modified, or supplemented only in writing signed by all parties hereto. Any signature required or permitted hereunder may be either by hand or by electronic signature.

12. Exclusions from Scope. By way of illustration and not limitation, unless specifically included in the Scope, Bowman has no obligation or responsibility for: (a) favorable or timely comment or action by any governmental entity; (b) taking into account off-site conditions or circumstances that are not clearly visible or reasonably ascertainable by the performance of on-site services; (c) the accurate location or characteristics of any subsurface utility or feature that is not clearly and entirely visible from the surface; or (d) structural design (including, but not limited, to structural design of retaining wall(s) or of special drainage structure(s)).

13. Limits of Scope.
(a) Early Bid Documents. Client agrees that if it requests submission of Work Product documents to contractors for bid purposes either prior to full completion thereof by Bowman or prior to final governmental approval, the potential exists for additional design and construction costs arising from required subsequent revisions and additions to Bowman design documents so as to conform to those of other design disciplines and/or governmental agencies, and any such costs shall be Client's responsibility.

(b) Estimates. Any cost, timing or quantity estimates provided as a part of the Scope are estimates only and reflect Bowman's judgment as a design professional familiar with the construction industry, but expressly do not represent a guarantee of quantities or construction costs. Client agrees that Bowman has no control over contractors as to cost, timing, or quantity matters, and further agrees that if Client desires greater accuracy as to construction costs it should engage an independent cost estimator.

(c) Construction Means and Methods. Client agrees that Bowman does not control and is not responsible for construction means, methods, techniques, sequences, or procedures, or for any safety precautions in connection with the Project or for the acts or omissions of any contractor, subcontractor, or any other person or entity performing work for the Project.

(d) Shop Drawing Review. If specifically included in the Scope, Bowman shall review and check the contractor's shop drawings, product data, and samples, but only for the limited purpose of checking for general conformance with the intent of such contract documents. Client acknowledges that such review is not for the purpose of determining or substantiating the accuracy and completeness of other details, such as dimensions or quantities, or for substantiating instructions for installation or performance of equipment or systems designed by the contractor. Bowman's review shall not constitute approval of safety precautions, construction means, methods, techniques, schedules, sequences or procedures, or of structural features.

(e) Plan and Permit Processing. If the Scope includes preparation of plans and/or plats for review and approval by public agencies, submission and processing of such plans and plats in a manner consistent with a normal course of business is included within the Scope. If Client requests Bowman to either expedite the plan review process by attending meetings, hand carrying plans and

documents from agency to agency, or performing similar services, or to prepare and process permit applications of any type, then, unless specifically included in the Scope, those services will be performed by Bowman as hourly rate services under Section 14 below.

(f) Building Plan Coordination. If the Scope includes preparation of site plans, site grading plans, subdivision plans, or similar plans that involve coordination with building plans (including architectural, mechanical, structural, or plumbing plans) to be prepared by others, Client shall provide such building plans to Bowman by such date and in such state as Bowman reasonably deems necessary to timely perform its services. If Client fails to so provide building plans to Bowman, Bowman may make reasonable assumptions regarding building characteristics in order to timely perform its services and any later revisions to Bowman plans required to properly coordinate them with building plans will require a Change Order, subject to an additional fee.

14. Fees by Hourly Rate Schedule. If Client requests Bowman to perform services not included in the Proposal or an approved Change Order (including, without limitation, attending meetings and conferences on an as-needed basis with public agencies), Client shall compensate Bowman for such services in accordance with the Hourly Rate Schedule attached to and made a part of the Agreement. Expert witness testimony or participation at legal discussions, hearings or depositions, including necessary preparation time, will be charged at 150% of the quoted rates. If the Project extends beyond the calendar year in which the Proposal is dated, Bowman may revise its Hourly Rate Schedule in January of each subsequent year.

15. Covenants Benefiting Third-Parties. Bowman and Client acknowledge that from time to time third-parties may request Bowman to execute documents which benefit that third-party. These documents may include certifications, consent of assignment, and/or waiver of certain of Bowman's rights under this Agreement ("Requested Covenant"). Client acknowledges that execution of Requested Covenants is beyond the Scope, is at Bowman's discretion, and, if Bowman decides to so execute a Requested Covenant, the language, terms, and conditions of such Requested Covenant must be acceptable to Bowman, at Bowman's discretion.

16. Assignment. This Agreement may not be assigned by one party without the express written consent of the other party. Notwithstanding the forgoing, Bowman may employ consultants, sub-consultants, or subcontractors as it deems necessary to perform the services described in the scope. Also, Bowman may assign its right to receive payments under this Agreement.

17. Termination. Either party may terminate the provision of further services by Bowman under this Agreement for convenience with thirty (30) days advance notice to the other party. In addition, following a material breach by the other party, the non-breaching party may terminate the provision of further services by Bowman under this Agreement by giving ten (10) days prior notice and an opportunity to cure to the reasonable satisfaction of the non-breaching party. Client acknowledges that its failure to timely pay undisputed invoices is a material breach and that full payment of all undisputed invoices is required to cure such breach. Following any termination of services: (a) Client shall immediately pay Bowman for all services performed through the termination date, including reasonable costs of transitioning the Project to a new design professional designated by Client, if applicable; (b) Bowman shall have the right to withhold from Client the use or possession of Work Product prepared by Bowman for Client under this or any other agreement with Client, until all outstanding invoices are paid in full; (c) if the termination by Bowman resulted from a material breach by Client, Bowman shall have the right to withdraw any Work Product or other documents filed with any governmental agency by Bowman in its name on behalf of Client; and (d) if Client selects a new design professional then, as a condition of transferring any files or documents, Client and Client's new design professional shall execute Bowman's standard Electronic File Transfer Agreement or such other similar agreement as the parties shall in good faith negotiate.

18. Miscellaneous. If any provision of this Agreement shall be held invalid, illegal or unenforceable, the other provisions of this Agreement shall remain in full force and effect. The failure of a party to enforce any provision hereof shall not affect its right at a later time to enforce same. A waiver by a party of any condition or breach hereunder must be in writing to be effective and, unless that writing provides otherwise, shall waive only one instance of that condition or breach. This Agreement is solely for the benefit of the parties hereto and no provision of this Agreement shall be to confer upon third-parties any remedy, claim, liability, reimbursement, cause of action, or other right. The headings in this Agreement are for convenience and identification purposes only, are not an integral part of this Agreement, and are not to be considered in the interpretation of any part hereof. This Agreement may be executed in counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. References in this Agreement to any gender shall include references to all genders. Unless the context otherwise requires, references in the singular include references in the plural and vice versa. The words "include," "including," or "includes" shall be deemed to be followed by the phrase "without limitation." The individual who signs this Agreement warrants that he has the authority to sign as, or on behalf of, Client, and to bind Client to all of the terms and conditions of this Agreement. To the extent that they are inconsistent or contradictory, the terms of the Proposal or an authorized Change Order shall supersede these Terms and Conditions.

19. Notices. Any notice, request, instruction, or other document to be given hereunder by a party hereto shall be in writing and shall be deemed to have been deemed delivered: (a) on the day sent if delivered personally or by courier service during regular business hours (i.e., prior to 5:00 p.m. on weekdays that are not Federal holidays); (b) on the business day after the day sent if sent by overnight delivery service; or (c) two business days after the day sent if sent by certified mail or delivered by two-day delivery service.

Bowman

If to Client, notice shall be addressed to the individual signing this Agreement at the address noted on the Proposal.

If to Bowman, notice shall be sent to the address set forth in the proposal, with a copy sent to:

Bowman Consulting Group Ltd.
12355 Sunrise Valley Drive, Suite 520
Reston, Virginia 20191
Attn: Robert A. Hickey

or to such other individual or address as a party hereto may designate for itself by notice given as herein provided.

Initials: Bowman D.P. / Client

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February 14, 2025

Mr. Michael Parks, City Adiministrator
City of Auburn
1 Auburn Way
Auburn, GA 30011

Michael,

We appreciate the opportunity to submit our proposal to provide concepts services for 63 6th Street. We believe this is an exciting opportunity to enhance the City of Auburn community. The following pages outline a professional services agreement for the project. If you can sign and scan back a copy for our files, I would appreciate it.

Sincerely,

Whit Alexander, PLA, LEED AP
Executive Vice President, CMO

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PROFESSIONAL SERVICES AGREEMENT

SCOPE OF SERVICES

The client, City of Auburn, wishes to develop a conceptual plan for the Dog Park property at 63 6th Street, Auburn, GA, a 4.4-acre property. The concepts will be utilized to achieve the City's goals for this project, we have developed the following project approach:

PROJECT APPROACH

TASK 1- PROJECT INITIATION

To initiate the project, Lose Design will meet with the Client Team virtually to revisit the project scope, review the schedule, and establish key delivery dates. This meeting will prove the opportunity to identify known issues and concerns, to gain an overview of the Client's resources and to discuss specific areas that may require special attention during the planning process. This meeting will also be used to establish a preliminary program for planned improvements that will be considered during the planning process. We will also coordinate with the Client Team to collect available background data (i.e., surveys, reports, and other related documents) required to develop the plans that will be provided to us. Following this meeting, Lose Design team members will perform an initial site visit to document exiting conditions and familiarize themselves with the project area.

TASK 2- INITIAL CONCEPT PLAN

Following the previous task, we will begin the development of the initial concept. Using our available resources, we will study the site and client program to develop an initial concept. This concept will be diagrammatic in nature to convey the general scale and relationships between various program elements requested by the Client team. We will meet with the Client team virtually to discuss these alternative ideas and submit electronic files of these plans for deliverables.

TASK 3- FINAL CONCEPT PLAN

Following receipt of final comments from the Client team, we will make the requested revisions to the plan and develop a final concept plan. Final deliverable will be provided in an electronic format

ADDITIONAL SERVICES

Only items of work specifically called out under the Scope of Services section of this agreement are to be performed for the specified fees as a part of the contract. The Design Professional will consider any items not so specified as "Additional Services" and will perform those services upon request on an hourly

fee basis. Such Additional Services may include, but are not limited to, the following:

- Additional site visits or meetings;
- Changes in drawings or other documents required by the Client after acceptance of progress documents by the Client;
- Other items requested by the Client not included elsewhere in this agreement;
- Professional Services other than those listed in the above Scope of Services;

EXCLUSIONS

The following services are hereby excluded from the Scope of Services:

- Hazardous materials testing or permitting related to their abatement.
- Engineering of construction plans, bid documents, specifications, or construction administration services.
- Surveying Services
- Geotechnical Services
- Environmental Services

FEES

For the services listed in the scope of services as Tasks 1-3, we will charge a lump sum fee of $10,000.00, invoiced monthly as a percentage of completion. All reimbursables will be charged per the following rate schedule.

Remit Payment To:
Lose Design
Attn: Accounts Receivable
2809 Foster Avenue
Nashville, TN 37210

Questions May Be Directed to:
Tammy Boyte
Controller
tboyte@lose.design
615-767-5811

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TERMS AND CONDITIONS

Payment Schedule and Terms – Progress payments for the fees described previously will be due monthly, based on the Design Professional's estimate of the percentage of the work complete. If payment is not received by the Design Professional within 30 calendar days of the invoice date, the Client shall pay as interest an additional charge of 1.5% of the past due amount per month. Payment thereafter shall first be applied to accrued interest and then to the unpaid principal. Failure to make payments when due shall be cause for suspension of the Design Professional's services, and the filing of a lien against the property.

Current Hourly Rates - An attached table, dated January 1, 2023, outlines our current hourly rates and reimbursable expenses. These rates are current until January 1, 2024, at which time they may be adjusted by the Design Professional.

Additional Services – Only items of work specifically called out under the Services section of this Agreement are to be performed for the specified Fees. The Design Professional will consider any items not so specified as "Additional Services" and will perform those services upon request on an hourly fee basis as outlined on the attached Hourly Rate Schedule. If any Additional Services are requested, the Design Professional shall be reimbursed for associated out-of-pocket expenses as reflected on the attached Hourly Rate Schedule.

Term of Proposal – It is understood that this document outlines proposed Services and Fees to be provided in relation to the Client's project, and that this offer of proposed Services and Fees remains open for sixty (60) days from the date this document is issued. If the Client does not indicate acceptance by signing and returning one copy to the Design Professional within sixty days, this document becomes null and void.

Fee Adjustment – It is understood that in the event this project extends over a period of more than one year from the date of this Agreement, the fees for any remaining services will be adjusted proportionately to the "all items" group of the U.S. Department of Labor's Bureau of Labor Statistics Consumer Index.

Ownership of Documents – All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by the Design Professional as instruments of service shall remain the property of the Design Professional. The Design Professional shall retain all common law, statutory and other reserved rights, including the copyright thereto. Reuse for extensions of the project or for new projects shall require written permission of the Design Professional and further compensation at a rate agreed upon by both parties. Any changes made to the construction documents by the Client, or by the Client's representatives, are strictly prohibited without the knowledge and written consent of the Design Professional. The Design Professional shall be released from any liability resulting from the unauthorized alteration of construction documents. The Design Professional grants the Client the right to use the drawings for their use in publications, public meetings, planning efforts, award submittals and the right to reproduce the drawing as needed for stated uses without requesting authorization from the Design Professional.

Jobsite Safety – The Design Professional is not responsible for job site safety during the master planning process. The owner retains sole responsibility and liability associated with securing the site and maintaining job site safety during the planning process.

Applicable Law – Unless otherwise provided, this Agreement shall be governed by Georgia state law.

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Disputes Resolution - All claims, counterclaims, disputes and other matters in question between the parties hereto arising out of or relating to this Agreement or breach thereof shall be presented to non-binding mediation, subject to the parties agreeing to a mediator.

Termination of Services – This Agreement may be terminated by either party upon not less than seven (7) days written notice should the other party fail to perform substantially in accordance with the terms of this Agreement through no fault of the party initiating termination. If this Agreement is terminated by the Client, the Design Professional shall be paid for services performed to the termination notice date, including reimbursable expenses due plus termination expenses. Termination expenses are defined as reimbursable expenses directly attributable to termination, plus 15 percent of the total compensation earned to the time of termination to account for the Design Professional's rescheduling adjustments, reassignment of personnel, and related costs incurred due to the termination.

Opinion of Probable Cost – In providing opinions of probable construction cost, the Client understands that the Design Professional has no control over costs or the price of labor, equipment, or materials, or over the contractor's method of pricing, and that the opinions of probable construction costs provided are to be made on the basis of the Design Professional's qualifications and experience. The Design Professional makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs.

Limit of Liability - In recognition of the relative risks and benefits of the project to both the Client and the Design Professional, the risks have been allocated such that the Client agrees, to the fullest extent permitted by law, to limit the liability of the Design Professional and its subconsultants to the Client for any and all claims, losses, costs, damages of any nature whatsoever or claims expenses from any cause or causes, so that the total aggregate liability of the Design Professional and its subconsultants to all those named shall not exceed **$50,000** or the Design Professional's total fee for services rendered on this project, whichever is greater. Such claims and causes include, but are not limited to negligence, professional errors or omissions, strict liability, breach of contract or warranty.

In addition, the Client agrees to indemnify and hold the Design Professional harmless for any damage, liability or cost, including reasonable attorney's fees and defense costs, arising from any errors or omissions contained in the plans, specifications or other contract documents prepared by others. The Client agrees to extend any and all liability limitations and indemnifications provided by the Client to the Design Professional to those individuals and entities the Design Professional retains for performance of the services under this Agreement, including but not limited to the Design Professional's subconsultants and their officers, employees, heirs and assigns. It is intended that this limitation apply to any and all liability or cause of action however alleged or arising, unless otherwise prohibited by law.

Betterment - If, due to the Design Professional's error, any required item or component of the project is omitted from the Design Professional's construction documents, the Design Professional shall not be responsible for paying the cost to add such item or component to the extent that such item or component would have been otherwise necessary to the project or otherwise adds value or betterment to the project. In no event will the Design Professional be responsible for any cost or expense that provides betterment, upgrade or enhancement of the project.

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ATTACHMENT A –Rates for Additional Services

Professional Services Hourly Rate for Additional Services

Professional Services Hourly Rate

Executive Management	$275.00
Vice President	$273.00
Sr. Engineer, Sr. Project Manager	$242.00
Sr. Architect	$221.00
Sr. Landscape Architect, Sr. Land Planner	$210.00
Project Manager	$210.00
Engineer, Architect	$200.00
Landscape Architect, Interior Designer, Planner	$184.00
Engineer in Training	$158.00
Intern Architect	$152.00
Land Planner	$147.00
Senior Proposal Coordinator	$142.00
BIM Specialist	$137.00
Technician, Marketing Content Creator	$105.00
Project Accounting Coordinator, Administrative Assistant	$105.00

Reimbursable Expenses

Consultants' Services	cost + 10%
Prints	cost + 10%
Postage and Shipping	cost + 10%
Mileage and Travel Expenses	cost + 10%
Copies	cost + 10%

January 1, 2025

NOTE: All the above-stated fees and expenses are to be billed monthly, and the invoices are due and payable upon receipt. Other reimbursable expenses not shown hereon will be invoiced at our cost plus 10%. These rates are current until January 1, 2026, at which time they may be adjusted by the Design Professional.

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SIGNATURE PAGE

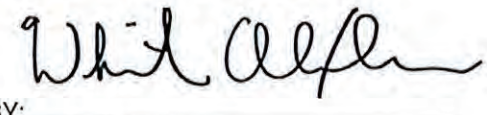
This is an Agreement made as of February 14, 2025 between the City of Auburn, Georgia (herein called the CLIENT), and Lose & Associates, Inc., dba Lose Design (herein called Lose Design or the DESIGN PROFESSIONAL).

I. Client and Lose Design, for the mutual considerations hereinafter set forth agree that the services for the development of the recreation facility master plan shall conform to the Scope of Services.

II. Client agrees to pay Lose Design as compensation for its services in accordance with the Fees Section in the proposal. Fees and other charges will be invoiced monthly by Lose Design. The amount of each invoice shall be due at the time of billing.

III. The person signing this Agreement warrants he has authority to sign as, or on behalf of, the Client. If such person does not have such authority, he agrees that he is personally liable for all breaches of this contract, and that in any action against him for breach of such warranty, a reasonable attorney's fee shall be included in any judgment rendered.

IV. When signed by both parties, this Professional Services Agreement, including the attached Scope of Services/Fees, Terms and Conditions, and Hourly Rate Schedule attached to this document, constitutes a final written expression of all terms of this Agreement and is a complete and exclusive statement of those terms. Any and all prior representations, promises, warranties, or statements by Lose Design that differ in any way from the terms of this written Agreement shall be given no force or effect. The terms of this Agreement can be modified only in writing which must be signed by both parties.

Agreed to:	Agreed to:
City of Auburn, GA Client Name	Lose Design Lose & Associates, Inc., dba Lose Design
_____ Signer's Name (Typed or Printed)	Whit Alexander Signer's Name (Typed or Printed)
BY: _____ Authorized Signature	BY:  Authorized Signature
Date: _____	Date: 2/14/2025
Title: _____	Title: _____

To Whom Should Invoices Be Directed:

NAME: _____

EMAIL ADDRESS: _____

AGENDA ITEM: # 5

TO: Mayor and Council

FROM: Michael Parks, City Administrator

DATE: March 21, 2025

PURPOSE: To discuss a new road extension and sidewalks to improve connectivity

BACKGROUND: To enhance connectivity between the municipal complex and the downtown area. This proposed project would provide direct access to essential community services, including the school, post office, and doctor's office, benefiting both residents and businesses.

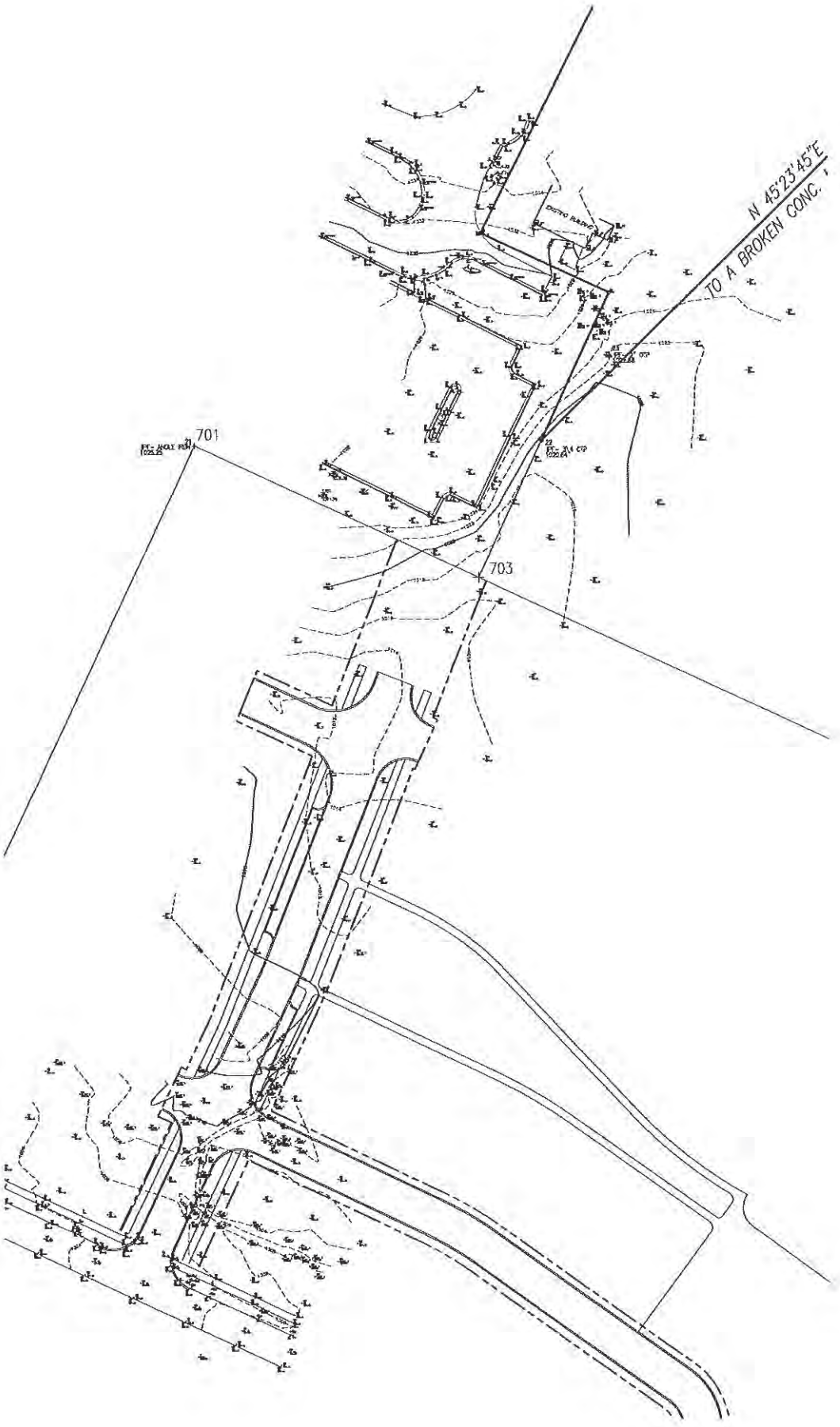
Key Benefits of the Road Extension:

- **Improved Accessibility:** The new road and sidewalks would create a more direct and efficient route, reducing travel time for residents, emergency services, and public transportation. The sidewalks would allow for an alternative for those who walk or bike.
- **Enhanced Safety:** By alleviating congestion on existing roads, the project would improve pedestrian and vehicular safety, particularly for school children and senior citizens accessing essential services.
- **Economic and Community Growth:** Increased accessibility can support local businesses and encourage further development in the downtown area.

RECOMMENDATION: The proposed project will require discussion with the adjacent landowner and school system. Recommend continuing discussions to determine the feasibility of the proposed project.

FUNDING: LRA, TSPLOST

ATTACHMENTS: College St. Extension and Topo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701
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AEC
Civil Engineering · Land Planning · Landscape Architecture · Water Resources · Property Services · Arborist Services
50 Warm Springs Circle
Roswell • Georgia • 30075
(770)641-1942 • www.aecatl.com

SITE LAYOUT PLAN

COLLEGE STREET EXTENSION
CITY OF AUBURN, GEORGIA

NO.	REVISIONS	DATE

PROJECT NO.: 25-5104
CIVIL DRAWN BY: DWW
CIVIL DESIGNED BY: DWW
LANDSCAPE DRAWN BY:
LANDSCAPE DESIGNED BY:
CHECKED BY:
DATE:

SHEET
C4.0

AGENDA ITEM: 6

TO: Mayor and Council

FROM: James Aton, Hussey Gay Bell, Water Engineer

DATE: March 27, 2025

PURPOSE: Pay Interest on Drinking Water Treatment Plant Construction Phase Bridge Loan

BACKGROUND: The construction of the Drinking Water Treatment Plant (DWTP) was funded by two loans from Georgia Environmental Finance Authority (GEFA): WS13L01WR ($7,348,100) and GF2023003 ($11,440.800). GEFA interrupted processing draws against loan GF2023003 during the transition between the loans until certain paperwork was completed. Heavy Constructors provided the City of Auburn with a Construction Phase Bridge Loan to avoid interruption to the construction of the DWTP while the paperwork issue was resolved. Provisions for such a Construction Phase Bridge Loan were included in the Guaranteed Maximum Price Contract (GMP) for the DWTP. The cost of the bridge loan is $667,325.05 to be paid out of the Owner Contingency. The Guaranteed Maximum Price for the DWTP remains $16,035,193 unchanged.

RECOMMENDATION: To approve Change Order #3 to the Heavy Constructors' agreement to pay the cost of the bridge loan out of the Owners Contingency, $667,325.05.

FUNDING: Pay the cost of the Bridge Loan out of the owner's contingency, $1,622,030, within the Guaranteed Maximum Price, $16,035,193. GMP is paid using existing GEFA loans WS13L01 and GF2023003. The GMP does not change.

ATTACHMENTS: Change Order #3 and associated supporting documents.

Change Order No. 3

Project Name: Auburn Drinking Water Treatment Plant	HGB Project No.: 22-0033-WS
Project Owner: City of Auburn, City Hall, One Auburn Way, Auburn, GA, 30011	Owner's Purchase Order #23-005 Owner's Project No.: 002-22
Project Contractor: Heavy Constructors, 1596 Low. Roswell Rd, Marietta, GA, 30068	Date of Issuance: 7-17-2024 Date of Contract: 8-4-2022 Contract Period: 8-4-22 to 3-11-24

HUSSEY GAY BELL
Established 1958

The following Change Order Items are based on necessary changes to Plant, Equipment, and Contract Time

Item	Description of Changes	Qty.	Contract Cost/Unit	Change in Contract Cost	Change in Days
	Deductions				
1	Construction Phase Bridge Loan Interest in accordance with Article 5 of the Construction	1	$667,325.05	$667,325.05	166 days
	Contract.				
	Total Change			**$667,325.05**	**166 Days**

These changes in the agreement for improvements to the drinking water treatment plant will be paid out of the Owner's Contingency and will not result in an increase in the guaranteed maximum price.

Summary: It is agreed to modify the Contract referred to above as follows:

Contract Price prior to this Change Order $16,035,193.00	Contract Time prior to this Change Order 849 Days
Net Increase (decrease) of this Change Order $667,325.05	Net Increase (decrease) of this Change Order 166
Revised Contract Price with all approved Change Orders $16,035,193.00	Revised Contract Time with all approved Change Orders 1015 Days 5-15-25

The changes included in this Change Order are to be accomplished in accordance with the terms, stipulations and conditions of the original Contract as though included therein.

Accepted for Contractor by: Date: 3/5/25

Recommended for Approval by Hussey Gay Bell & DeYoung, Inc. Date: 3-7-25
James B. Cator, PE

Approved for Owner by: Attest: Date:

Approved: (Other - when required) Date:

HEAVY CONSTRUCTORS
CONTRACTORS – ENGINEERS

2/24/25

City of Auburn
1 Auburn Way
Auburn, GA 30011

Re: City of Auburn Drinking Water Treatment Facility

Attn: Michael Parks

Subject: Construction Bridge Loan Interest Payment Request

Mr. Parks,
Heavy Constructors is requesting payment for the interest and late payments on the Construction Bridge Loan that was provided to the City of Auburn per the contract documents.

I have attached the breakdown for the interest and late payments that shows the total accrual amount as of today 2/24/25 in the amount of $667,325.05.

This is being requested in pay estimate #27 attached through the Owner's Contingency Allowance.

The attached 1099-INT form will need to be completed by the City when payment is made to document that this payment was for interest owed and not for contractual work completed.

Sincerely,

Micheal Hipps

Mike Hipps
Vice President

CC: File
Don Martin
Jim Aton

Heavy Constructors, Inc.
1596 Lower Roswell Road
Marietta, GA 30068
Phone (770) 321-8860 ; Fax (770) 321-5140

Auburn WTP - Construction Phase Bridge Loan Interest from Heavy Constructors

Pay Est. #	Amount	Invoice Date	Date Submitted	Date Due	Date Paid	Days Late	Interest Amount
7	$ 1,060,450.80	3/31/2023	4/10/2023	5/10/2023	6/13/2023	34	$ 11,853.81
8	$ 614,135.50	4/30/2023	5/10/2023	6/9/2023	2/23/2024	259	$ 52,294.06
9	$ 600,530.72	5/31/2023	5/30/2023	6/29/2023	2/23/2024	239	$ 47,186.91
10	$ 770,716.76	6/30/2023	7/3/2023	8/2/2023	2/23/2024	205	$ 51,944.20
11	$ 986,209.13	7/31/2023	8/17/2023	9/16/2023	2/23/2024	160	$ 51,877.30
12	$ 1,565,483.04	8/31/2023	9/12/2023	10/12/2023	5/29/2024	230	$ 118,376.25
13	$ 813,285.53	9/30/2023	10/7/2023	11/6/2023	5/29/2024	205	$ 54,813.22
14	$ 1,333,136.64	10/31/2023	11/1/2023	12/1/2023	6/5/2024	187	$ 81,960.51
15	$ 788,415.07	11/30/2023	12/1/2023	12/31/2023	7/11/2024	193	$ 50,026.56
16	$ 389,419.59	12/31/2023	1/6/2024	2/5/2024	7/11/2024	157	$ 20,100.45
17	$ 748,503.98	1/31/2024	2/8/2024	3/9/2024	7/11/2024	124	$ 30,514.35
18	$ 601,412.39	2/29/2024	3/15/2024	4/14/2024	7/11/2024	88	$ 17,399.77
19	$ 469,527.66	3/31/2024	4/16/2024	5/16/2024	7/11/2024	56	$ 8,644.45
20	$ 241,032.34	4/30/2024	5/11/2024	6/10/2024	7/22/2024	42	$ 3,328.23
21	$ 40,747.27	5/31/2024	6/4/2024	7/4/2024	9/23/2024	81	$ 1,085.11
22	$ 79,432.79	6/30/2024	7/5/2024	8/4/2024	9/23/2024	50	$ 1,305.74
23	$ 116,703.06	7/31/2024	8/2/2024	9/1/2024	12/13/2024	103	$ 3,951.92
24	$ 222,519.86	8/31/2024	9/14/2024	10/14/2024	11/26/2024	43	$ 3,145.76
25	$ 243,437.51	9/30/2024	10/5/2024	11/4/2024	12/21/2024	47	$ 3,761.61
26	$ 112,278.60	12/9/2024	12/9/2024	1/8/2025	1/13/2025	5	$ 184.57
							$ 613,754.77

Interest on Unpaid Interest Payments

Pay Est. #	Amount	Estimate Paid	Date Due (+30)	Date Paid	Today's Date	Days Late	Interest Amount
7	$ 11,853.81	6/13/2023	7/13/2023		2/24/2025	592	$ 2,307.11
8	$ 52,294.06	2/23/2024	3/24/2024		2/24/2025	337	$ 5,793.90
9	$ 47,186.91	2/23/2024	3/24/2024		2/24/2025	337	$ 5,228.05
10	$ 51,944.20	2/23/2024	3/24/2024		2/24/2025	337	$ 5,755.13
11	$ 51,877.30	2/23/2024	3/24/2024		2/24/2025	337	$ 5,747.72
12	$ 118,376.25	5/29/2024	6/28/2024		2/24/2025	241	$ 9,379.29
13	$ 54,813.22	5/29/2024	6/28/2024		2/24/2025	241	$ 4,343.01
14	$ 81,960.51	6/5/2024	7/5/2024		2/24/2025	234	$ 6,305.35
15	$ 50,026.56	7/11/2024	8/10/2024		2/24/2025	198	$ 3,256.52
16	$ 20,100.45	7/11/2024	8/10/2024		2/24/2025	198	$ 1,308.46
17	$ 30,514.35	7/11/2024	8/10/2024		2/24/2025	198	$ 1,986.36
18	$ 17,399.77	7/11/2024	8/10/2024		2/24/2025	198	$ 1,132.65
19	$ 8,644.45	7/11/2024	8/10/2024		2/24/2025	198	$ 562.72
20	$ 3,328.23	7/22/2024	8/21/2024		2/24/2025	187	$ 204.62
21	$ 1,085.11	9/23/2024	10/23/2024		2/24/2025	124	$ 44.24
22	$ 1,305.74	9/23/2024	10/23/2024		2/24/2025	124	$ 53.23
23	$ 3,951.92	12/13/2024	1/12/2025		2/24/2025	43	$ 55.87
24	$ 3,145.76	11/26/2024	12/26/2024		2/24/2025	60	$ 62.05
25	$ 3,761.61	12/21/2024	1/20/2025		2/24/2025	35	$ 43.28
26	$ 184.57	1/13/2025	2/12/2025		2/25/2025	12	$ 0.73
							$ 53,570.28

Grand Total	$ 667,325.05

Mike Hipps
to me, Michael

Wed, Mar 5, 12:30 PM (2 days ago)

Jim,
Attached is change order #3 signed.

As we discussed on the phone regarding the contract time extension, the May 15th deadline does not give us any buffer for completion. That is the date we currently are working to, but there are many things outside of our control that may impact that deadline. We are Ok with this date for the purposes of this change order but wanted to make you aware there are still things that can happen that impact that date that our outside of our control. We will do our very best to meet this date.

Mike Hipps
Heavy Constructors, Inc.
Vice President / Senior PM
(c) 404-427-4687

PERIODIC ESTIMATE FOR PARTIAL PAYMENT

Project: City of Auburn Drinking Water Facility

Contract No.: 22033

Periodic Estimate No. 27 For Period December 10, 2024 to February 24, 2025

Heavy Constructors, Inc.

SUMMARY BY ITEM NUMBER		Total Estimated Cost		Cumulative Cost Completed		Stored Material Amount
General Conditions	$	1,734,458.00	$	1,721,909.86	$	-
Allowances & Unit Prices	$	1,622,030.00	$	1,068,988.41	$	-
Site/Yard	$	1,829,752.00	$	1,700,989.88	$	49,117.88
Influent and Flocculators	$	131,185.00	$	131,185.00	$	-
Water Treatment Plant Building	$	6,004,257.00	$	6,004,257.00	$	-
Solids Handling System	$	1,442,030.00	$	1,442,030.00	$	-
Clearwell and High Service	$	595,045.00	$	595,045.00	$	-
Backwash Systems	$	868,360.00	$	868,360.00	$	-
Electrical	$	1,808,076.00	$	1,791,894.24	$	-
TOTAL	$	16,035,193.00	$	15,324,659.39	$	49,117.88

2. ANALYSIS OF ADJUSTED CONTRACT AMOUNT TO DATE		
a) Original Contract Amount	$	16,035,193.00
b) Change Orders:		
c) Additions	$	-
d) Deductions	$	-
e) Adjusted Contract Amount To Date	$	16,035,193.00
3. ANALYSIS OF WORK PERFORMED		
a) Cost of Original Contract Work Performed To Date	$	15,324,659.39
b) Extra Work Performed To Date	$	-
c) Total Cost of Work Performed to Date	$	15,324,659.39
e) Subtotal	$	15,324,659.39
f) Retainage - 5% of Work Performed to Date	$	732,866.72
g) Net Amount Earned To Date	$	14,591,792.67
h) Less prior payments	$	13,924,467.62
i) BALANCE DUE THIS PAYMENT	$	667,325.05

AGENDA ITEM: 7

TO: Mayor and Council

FM: Michael Parks
City Administrator

DATE: March 27, 2025

PURPOSE: To approve the Sanitary Sewer Capacity Fees Ordinance for the City of Auburn.

BACKGROUND: The city has invested in improving the sanitary sewer system within the City limits by participating with private developers in pump station and sewer line improvements. In exchange for the City's investment, it obtained the right to allocate and sell part of the capacity created. The proposed ordinance clarifies the fees due for such capacity and the timing of payment.

RECOMMENDATION: To approve Ordinance 25-002 as presented by staff.

FUNDING: N/A

ORDINANCE NO. ___25-002_____

AN ORDINANCE TO AMEND
THE CITY DEVELOPMENT REGULATIONS
TO PROVIDE FOR SANITARY SEWER CAPACITY FEES

WHEREAS, the City has entered into an Agreement with Barrow County under which the City contributed public funds to the creation of certain sanitary sewer infrastructure including the Sixth Street Lift Station; and

WHEREAS, in consideration for the City's contributory payments for the enhancements and upgrades to the Sixth Street Lift Station, the Barrow County has granted the City control of certain limited sanitary sewer capacity in and around the City limits for projects using the Lift Station; and

WHEREAS, the City has been authorized by virtue of its Agreement to collect a Sewer Infrastructure Recovery Fee or Capacity Fee to recover the City's initial investment in infrastructure improvements for the Sixth Street Lift Station as allocates the capacity available; and

WHEREAS, the City has reviewed the costs expended for such improvements and determined the amounts due from each subsequent user so that each such user pays its proportionate share of such improvement costs advanced by the City; and

WHEREAS, it is in the best interest of the health, safety and welfare of the citizens of the City to adopt this Ordinance to provide for the collection of those fees and the assignment of Sanitary Sewer Capacity allocated to the City;

NOW, THEREFORE, THE COUNCIL OF THE CITY OF AUBURN HEREBY ORDAINS that the following Section 16.58.010 Sewer Infrastructure Recovery/Capacity Fee is adopted as follows:

Section 16.58.010 Sewer Infrastructure Recovery/Capacity Fee. The City Administrator and the Director of Public Works are authorized to assign and allocate Sanitary Sewer Capacity controlled by the City upon the payment of the sum of $_2,200.00_ per equivalent residential unit (ERU) to the City for sanitary sewer located within the City limits and allocated to the City. No permits for development shall be issued until the Infrastructure Recovery/Capacity Fee is paid by the applicant or developer. The fee represents the actual per unit costs expended by the City in creating the infrastructure improvements and costs necessary to make the sewer capacity available. Applications for such capacity shall be processed in the order received.

This Ordinance shall be effective immediately upon its adoption by the Council. All other and further Ordinances and parts of Ordinances shall remain in full force and effect.

If any portion of this Ordinance is determined by a Court of competent jurisdiction to be invalid or unenforceable, the rest and remainder of this Ordinance shall continue in full force and effect.

SO ORDAINED, this ____ day of March, 2025.

Richard E. Roquemore, Mayor

Taylor J. Sisk, Council Member

Robert L. Vogel, III Council Member

Jamie L. Bradley, Council Member

Joshua Rowan, Council Member

ATTEST:

Brooke Haney, City Clerk

AGENDA ITEM: 8

TO: Mayor and Council

FROM: Michael Parks
City Administrator

DATE: March 27, 2025

PURPOSE: Planning Fee Schedule

BACKGROUND:

RECOMMENDATION:

FUNDING:

ATTACHMENTS:

AGENDA ITEM: Voting Item #8

TO: Mayor and Council

FROM: Michael Parks, City Administrator

DATE: March 21, 2025

PURPOSE: To place a maximum cost for annexation and rezoning application cost associated with the development fee schedule.

BACKGROUND:

Proposed Fee Cap:
For applications that include both annexation and rezoning of multiple parcels submitted simultaneously as part of a single project, the combined annexation and rezoning fees shall be capped at $8,000.

Justification:
The current fee structure is designed to recoup staff time and costs associated with reviewing individual parcels; however, large multi-parcel annexation and rezoning requests often represent a single coordinated effort rather than entirely separate processes. Staff review, public notice, and hearings are consolidated, and analysis is conducted comprehensively rather than parcel-by-parcel. Without a cap, applicants pursuing larger developments are disproportionately burdened by scaling fees that do not reflect the efficiencies gained in handling multiple parcels as part of one application.

Implementing a cap encourages high-quality, master-planned development submissions while ensuring the City recovers appropriate costs. The $8,000 threshold recognizes the complexity of large applications but maintains reasonableness and fairness to the applicant, promoting economic development and growth without discouraging responsible large-scale projects.

RECOMMENDATION: To approve the maximum cost of annexation and rezoning cost at $8000 per application.

FUNDING: N/A

ATTACHMENTS: Current City of Auburn development fee schedule

PLANNING & DEVELOPMENT SERVICES FEE SCHEDULE CITY OF AUBURN				
PLANNING (LAND USE)				
	*	VARIANCE	500.00	PER ARTICLE PER PARCEL
		REZONE	1000.00	PER PARCEL
	*	REZONE TO PUD	1000.00	PER PARCEL
		ANNEXATION	1000.00	PER PARCEL
		CONDITIONAL USE	850.00	PER PARCEL OR ADDRESS
		ZONING CERTIFICATION	100.00	PER PARCEL
	*	ZONING CERTIFICATION	300.00	PER PARCEL
PLATS				
	*	PRELIMINARY PLAT REVIEW	600.00	PLUS $10 PER LOT
		BOUNDARY LINE PLATS	COUNTY	
	*	FINAL PLAT REVIEW - MAJOR SUBDIVISION	1500.00	
	*	FINAL PLAT REVIEW - MINOR SUBDIVISION	800.00	
SIGNS				
	*	SIGN PERMITS	100.00	PLUS $1 PER SQ FT
		TEMPORARY SIGNS	60.00	
	*	PENALTY FOR SIGNS ERECTED PRIOR TO PERMIT	100.00	THIS PENALTY FEE IS IN ADDITION TO SIGN
	*	SIGN PLAN REVIEW	100.00	PLUS $1 PER SQ FT
	*	SIGN ADMINISTRATIVE FEE	100.00	PLUS $1 PER SQ FT
PERMITS				
		LAND DISTURBANCE PERMIT	1000.00	INCLUDES STATE & CITY REVIEWS, MULTIPLE SUBMISSION REVIEWS & LOCAL INSPECTIONS; $3000 BOND, LETTER OF CREDIT, OR CASH AS REQUIRED BY ORDINANCE
	*	DEMOLITION PERMIT - RESIDENTIAL	500.00	MIN. FEE
	*	DEMOLITION PERMIT - COMMERCIAL	500.00	MIN. FEE
		SOLAR PANELS	300.00	
	*	SWIMMING POOL	120.00	PLUS ANY ADDITIONAL TRADE PERMITS; INCLUDES PERMIT, INSPECTION,
		ALL TRADE PERMITS (HVAC, ELECTRICAL, PLUMBING)	100.00	PLUS $125 PER INSPECTION (PAY FOR 1ST INSPECTION AT TIME OF APPLICATION), INCLUDES PERMIT AND CC
PLANNING & DEVELOPMENT SERVICES FEE SCHEDULE				
		FENCE PERMIT	100.00	PLUS $125 PER INSPECTION (PAY FOR 1ST INSPECTION AT TIME OF APPLICATION), INCLUDES PERMIT AND CC
		ACCESSORY STRUCTURE	120.00	PLUS $125 PER INSPECTION (PAY FOR 1ST INSPECTION AT TIME OF APPLICATION), INCLUDES PERMIT AND CC

		BUILDING PERMITS: NEW CONSTRUCTION		$8 PER $1000 CONSTRUCTION VALUE 100% (ICC TABLE); INCLUDES ALL PLAN REVIEWS, INSPECTIONS, AND CO
		BUILDING PERMITS: MODIFICATIONS		$8 PER $1000 CONSTRUCTION VALUE 80% (ICC TABLE); INCLUDES ALL PLAN REVIEWS, INSPECTIONS, AND CO
	*	DRIVEWAY PERMIT	100.00	STANDALONE ONLY (NEW CONSTRUCTION PERMITS INCLUDE DRIVEWAY)
	*	PENALTY FOR ACCESSORY STRUCTURES ERECTED PRIOR TO	120.00	DOUBLE PERMIT FEE 120.00 X 2 $240.00
REGULATORY FEES (ALL FEES ARE PER YEAR UNLESS NOTED)				
		Malt beverages sale (package or on premises)		
		Wine sales (package or on premises)		
		Liquor sales (package)		
		Liquor sales (on premises)		
		Peddlers of all other products, regulatory fee per	200.00	