APPENDIX D:

ENERGY CONSUMPTION WORKSHEETS

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Main Street Tower Project
Construction Fuel Calculations

PHASE Project Construction (On-Site)		Lbs/day Total CO2 [a]	Construction (# of Days)	Emission Factor [b] (22.4 lbs/gal.)	Diesel Fuel (Gallons)	
Demolition/Site Preparation 2023		3,728.22	22	22.40	3,661.64	
Grading/Excavation 2023-2024		6,953.11	129	22.40	40,042.46	
Building Construction 2024-2025		3,753.74	400	22.40	67,031.07	
Paving 2025		1,103.37	22	22.40	1,083.67	
Architectural Coating 2025-2026		1,717.89	96	22.40	7,362.39	
	SubTotal	**17,256.33**			**119,181.23**	**Diesel**

Notes

[a] See Appendix A, Air Quality Worksheets,Proposed Project (On-site construction emissions for heavy duty diesel equipment).

[b] CO emisisons to fuel consumption converstion factior derived from U.S. Energy Information Administration [http://www.eia.gov/tools/faqs/faq.cfm?id=307&t=11]

PHASE Project Construction (Off-Site)		Lbs/day Total CO2 [c]	Construction (# of Days)	Emission Factor [d] (18.9 lbs/gal.)	Gasoline Fuel (Gallons)	
Demolition/Site Preparation 2023		1,409.64	22	18.90	1,640.85	
Grading/Excavation 2023-2024		1,026.31	129	18.90	7,004.97	
Building Construction 2024-2025		4,643.65	400	18.90	98,278.31	
Paving 2025		89.30	22	18.90	103.95	
Architectural Coating 2025-2026		580.45	96	18.90	2,948.32	
	SubTotal	**7,749.35**			**109,976.40**	**Gasoline**
	TOTAL	**25,005.68**			**229,157.63**	**Gas and Diesel**

Notes

[c] See Appendix A, Air Quality Worksheets, Project Conditions (Off-site construction emissions for hauling, vendor, and worker trips).

[d] CO emisisons to fuel consumption converstion factor derived from U.S. Energy Information Administration [http://www.eia.gov/tools/faqs/faq.cfm?id=307&t=11]

Source: Parker Environmental Consultants, 2019

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Main Street Tower Project
Operational Fuel Calculations

		Annual Vehicle Miles Traveled	Annual Metric Tons CO2e [c]	Conversion (1 MT = 2204.62 lbs.)	Annual lbs CO2e	Emission Factor [d] (18.9 lbs/gal.)	Gasoline Fuel (Gallons)
Mobile Source		3,364,707	1,264.32	2,204.60	2,787,319.87	18.90	147,477.24
	SubTotal		**1,264.32**		**2,787,319.87**		**147,477.24**

Source: Parker Environmental Consultants, 2019