



Paulus, Sokolowski & Sartor Engineering, PC
 67A Mountain Blvd. Ext.
 Warren, NJ 07059
 Tel: 732-560-9700 Fax: 732-764-6565

PROPOSED PRELIMINARY GAS LOAD (860)

DATE: 5/2/2011
 PROJECT NO.: 03610-001
 PROJECT NAME: **Glen Isle Glen Cove Waterfront Redevelopment**
 PROJECT TOWN: City of Glen Cove, Nassau County, NY
 PREPARED BY: Lisa Fisher

FEIS Proposed Action				
	<u># of Units/Size</u>	<u>Square ft</u>	<u>Btu/hr</u>	<u>Sub-Total (Btu/hr)</u>
RESTAURANT AT POINT				
Space Heating Load		5000	250,000	
Domestic Hot Water Load			1,000,000	
Range			250,000	
Deep Fryer			160,000	
Ovens			300,000	
Total				1,960,000
Condominium Units				
Space Heating (1 Bedroom)	68	2000	4,080,000	
Space Heating (2 Bedroom)	135	2200	8,910,000	
Space Heating (3 Bedroom)	68	2400	4,896,000	
Domestic Hot Water (combined)	271		13,550,000	
Cooking Gas (combined)	271		17,073,000	
Clothes Dryer (combined)	271		6,504,000	
Total				55,013,000
Rental Units				
Space Heating (1 Bedroom)	176	1250	6,600,000	
Space Heating (2 Bedroom)	252	1525	11,529,000	
Space Heating (3 Bedroom)	75	1700	3,825,000	
Domestic Hot Water (combined)	503		25,150,000	
Cooking Gas (combined)	503		20,120,000	
Clothes Dryer (combined)	503		12,072,000	
Pool (20'x40'x5' deep) = 30,000 gal/365 days			515,122	
Total				79,811,122
Workforce Condominium Units				
Space Heating (1 Bedroom)	4	1025	123,000	
Space Heating (2 Bedroom)	26	1190	928,200	
Domestic Hot Water (combined)	30		1,500,000	
Cooking Gas (combined)	30		1,200,000	
Clothes Dryer (combined)	4		96,000	
Total				3,847,200
Workforce Rental Units				
Space Heating (1 Bedroom)	8	1050	252,000	
Space Heating (2 Bedroom)	48	1210	1,742,400	
Domestic Hot Water (combined)	56		2,800,000	
Cooking Gas (combined)	56		2,240,000	
Clothes Dryer (combined)	4		96,000	
Total				7,130,400
Hotel				
Hotel Units	250	187500		
Domestic Hot Water (Hotel)			2,000,000	
Clothes Dryer (2 every other floor)	12		288,000	
Restaurant (Space heating)	160	4000	200,000	
Domestic Hot Water (Rest.)			1,000,000	
Range			250,000	
Deep Fryer			160,000	
Ovens			300,000	
Conference Room Seats	400	10000	500,000	
Catering Seats	300	8000	400,000	
Spa GSF (sf)	18,000	18,000	450,000	
Retail GSF (sf)	5,300	5,300	265,000	
Pool (20'x40'x5' deep) =			515,122	

30,000 gal/365 days Marina Support Building (sf) Luxury Boat Marina (15 slips)	600	600	15,000	
Total				6,343,122
Office Office GSF		50,000	2,500,000	2,500,000
Total				
Angler's Club Angler's Club (heating) Angler's Club (hot water) Angler's Club Marina (39 slips)		1,500	75,000 50,000	
Total				125,000
Commercial/Cultural Commercial/Cultural GSF (sf) Marina Support Building (sf) Domestic Hot Water Transient Marina (40 slips)		20,000 1,200	1,000,000 60,000 50,000	
Total				1,110,000
PROJECT TOTAL =				157,839,844 Btuh

NOTES:

1. Apartment space heating assumed @ 30 Btuh/sf
2. Apartment water heater assumed @ 50,000 Btuh/per heater
3. Gas fired range and oven for Condominium and Townhouses assumed @ 63,000 Btuh/apt. Based on Viking.
4. Gas fired range and oven for Rental and Workforce housing units assumed @ 40,000 Btuh/apt.
5. Assumed each apartment will have a gas fired clothes dryer @ 24,000 Btuh/dryer
6. Assumed all pools will be indoor and heated.
7. Hotel rooms to have electric heat pumps.
8. Restaurant heat load assumed @ 50 Btuh/sf.
9. The above load should be recalculated once the design is finalized.



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PROPOSED PRELIMINARY GAS LOAD (860)

DATE: 5/2/2011
 PROJECT NO.: 03610-001
 PROJECT NAME: **Glen Isle Glen Cove Waterfront Redevelopment**
 PROJECT TOWN: City of Glen Cove, Nassau County, NY
 PREPARED BY: Lisa Fisher

Modified BR Mix for Sensitivity Analysis				
	# of Units/Size	Square ft	Btu/hr	Sub-Total (Btu/hr)
RESTAURANT AT POINT				
Space Heating Load		5000	250,000	
Domestic Hot Water Load			1,000,000	
Range			250,000	
Deep Fryer			160,000	
Ovens			300,000	
Total				1,960,000
Condominium Units				
Space Heating (1 Bedroom)	63	2000	3,780,000	
Space Heating (2 Bedroom)	127	2200	8,382,000	
Space Heating (3 Bedroom)	81	2400	5,832,000	
Domestic Hot Water (combined)	271		13,550,000	
Cooking Gas (combined)	271		17,073,000	
Clothes Dryer (combined)	271		6,504,000	
Total				55,121,000
Rental Units				
Space Heating (1 Bedroom)	166	1250	6,225,000	
Space Heating (2 Bedroom)	236	1525	10,797,000	
Space Heating (3 Bedroom)	101	1700	5,151,000	
Domestic Hot Water (combined)	503		25,150,000	
Cooking Gas (combined)	503		20,120,000	
Clothes Dryer (combined)	503		12,072,000	
Pool (20'x40'x5' deep) = 30,000 gal/365 days			515,122	
Total				80,030,122
Workforce Condominium Units				
Space Heating (1 Bedroom)	5	1025	153,750	
Space Heating (2 Bedroom)	21	1190	749,700	
Space Heating (3 Bedroom)	5	1400	210,000	
Domestic Hot Water (combined)	31		1,550,000	
Cooking Gas (combined)	31		1,240,000	
Clothes Dryer (combined)	4		96,000	
Total				3,999,450
Workforce Rental Units				
Space Heating (1 Bedroom)	8	1050	252,000	
Space Heating (2 Bedroom)	39	1210	1,415,700	
Space Heating (3 Bedroom)	8	1400	336,000	
Domestic Hot Water (combined)	55		2,750,000	
Cooking Gas (combined)	55		2,200,000	
Clothes Dryer (combined)	4		96,000	
Total				7,049,700
Hotel				
Hotel Units	250	187500		
Domestic Hot Water (Hotel)			2,000,000	
Clothes Dryer (2 every other floor)	12		288,000	
Restaurant (Space heating)	160	4000	200,000	
Domestic Hot Water (Rest.)			1,000,000	
Range			250,000	
Deep Fryer			160,000	
Ovens			300,000	
Conference Room Seats	400	10000	500,000	
Catering Seats	300	8000	400,000	
Spa GSF (sf)	18,000	18,000	450,000	

Retail GSF (sf)	5,300	5,300	265,000	
Pool (20'x40'x5' deep) = 30,000 gal/365 days			515,122	
Marina Support Building (sf)	600	600	15,000	
Luxury Boat Marina (15 slips)				
Total				6,343,122
Office				
Office GSF		50,000	2,500,000	
Total				2,500,000
Angler's Club				
Angler's Club (heating)		1,500	75,000	
Angler's Club (hot water)			50,000	
Angler's Club Marina (39 slips)				
Total				125,000
Commercial/Cultural				
Commercial/Cultural GSF (sf)		20,000	1,000,000	
Marina Support Building (sf)		1,200	60,000	
Domestic Hot Water			50,000	
Transient Marina (40 slips)				
Total				1,110,000
PROJECT TOTAL =				158,238,394 Btuh

NOTES:

1. Apartment space heating assumed @ 30 Btuh/sf
2. Apartment water heater assumed @ 50,000 Btuh/per heater
3. Gas fired range and oven for Condominium and Townhouses assumed @ 63,000 Btuh/apt. Based on Viking.
4. Gas fired range and oven for Rental and Workforce housing units assumed @ 40,000 Btuh/apt.
5. Assumed each apartment will have a gas fired clothes dryer @ 24,000 Btuh/dryer
6. Assumed all pools will be indoor and heated.
7. Hotel rooms to have electric heat pumps.
8. Restaurant heat load assumed @ 50 Btuh/sf.
9. The above load should be recalculated once the design is finalized.



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PROPOSED PRELIMINARY GAS LOAD (860)

DATE: 5/2/2011
 PROJECT NO.: 03610-001
 PROJECT NAME: **Glen Isle Glen Cove Waterfront Redevelopment**
 PROJECT TOWN: City of Glen Cove, Nassau County, NY
 PREPARED BY: Lisa Fisher

DEIS/Initial FEIS (Now Alternative 1)				
	<u># of Units/Size</u>	<u>Square ft</u>	<u>Btu/hr</u>	<u>Sub-Total (Btu/hr)</u>
RESTAURANT AT POINT				
Space Heating Load		5000	250,000	
Domestic Hot Water Load			1,000,000	
Range			250,000	
Deep Fryer			160,000	
Ovens			300,000	
Total				1,960,000
Condominium Units				
Space Heating (1 Bedroom)	148	2000	8,880,000	
Space Heating (2 Bedroom)	297	2200	19,602,000	
Space Heating (3 Bedroom)	149	2400	10,728,000	
Domestic Hot Water (combined)	594		29,700,000	
Cooking Gas (combined)	594		37,422,000	
Clothes Dryer (combined)	594		14,256,000	
Total				120,588,000
Rental Units				
Space Heating (1 Bedroom)	63	1250	2,362,500	
Space Heating (2 Bedroom)	90	1525	4,117,500	
Space Heating (3 Bedroom)	27	1700	1,377,000	
Domestic Hot Water (combined)	180		9,000,000	
Cooking Gas (combined)	180		7,200,000	
Clothes Dryer (combined)	180		4,320,000	
Pool (20'x40'x5' deep) = 30,000 gal/365 days			515,122	
Total				28,892,122
Workforce Condominium Units				
Space Heating (1 Bedroom)	13	1025	399,750	
Space Heating (2 Bedroom)	73	1190	2,606,100	
Domestic Hot Water (combined)	86		4,300,000	
Cooking Gas (combined)	86		3,440,000	
Clothes Dryer (combined)	4		96,000	
Total				10,841,850
Workforce Rental Units				
Space Heating (1 Bedroom)	0	1050	0	
Space Heating (2 Bedroom)	0	1210	0	
Domestic Hot Water (combined)	0		0	
Cooking Gas (combined)	0		0	
Clothes Dryer (combined)	0		0	
Total				0
Hotel				
Hotel Units	250	187500		
Domestic Hot Water (Hotel)			2,000,000	
Clothes Dryer (2 every other floor)	12		288,000	
Restaurant (Space heating)	160	4000	200,000	
Domestic Hot Water (Rest.)			1,000,000	
Range			250,000	
Deep Fryer			160,000	
Ovens			300,000	
Conference Room Seats	400	10000	500,000	
Catering Seats	300	8000	400,000	
Spa GSF (sf)	18,000	18,000	450,000	
Retail GSF (sf)	5,300	5,300	265,000	
Pool (20'x40'x5' deep) =			515,122	

30,000 gal/365 days Marina Support Building (sf) Luxury Boat Marina (15 slips)	600	600	15,000	
Total				6,343,122
Office Office GSF		50,000	2,500,000	
Total				2,500,000
Angler's Club Angler's Club (heating) Angler's Club (hot water) Angler's Club Marina (39 slips)		1,500	75,000 50,000	
Total				125,000
Commercial/Cultural Commercial/Cultural GSF (sf) Marina Support Building (sf) Domestic Hot Water Transient Marina (40 slips)		20,000 1,200	1,000,000 60,000 50,000	
Total				1,110,000
PROJECT TOTAL =				172,360,094 Btuh

NOTES:

1. Apartment space heating assumed @ 30 Btuh/sf
2. Apartment water heater assumed @ 50,000 Btuh/per heater
3. Gas fired range and oven for Condominium and Townhouses assumed @ 63,000 Btuh/apt. Based on Viking.
4. Gas fired range and oven for Rental and Workforce housing units assumed @ 40,000 Btuh/apt.
5. Assumed each apartment will have a gas fired clothes dryer @ 24,000 Btuh/dryer
6. Assumed all pools will be indoor and heated.
7. Hotel rooms to have electric heat pumps.
8. Restaurant heat load assumed @ 50 Btuh/sf.
9. The above load should be recalculated once the design is finalized.



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PROPOSED PRELIMINARY GAS LOAD (1085)

DATE: 7/28/2011
 PROJECT NO.: 03610-001
 PROJECT NAME: **Glen Isle Glen Cove Waterfront Redevelopment**
 PROJECT TOWN: City of Glen Cove, Nassau County, NY
 PREPARED BY: Lisa Fisher

Alternate Density (Alternative 2)				
	# of Units/Size	Square ft	Btu/hr	Sub-Total (Btu/hr)
RESTAURANT AT POINT				
Space Heating Load		5000	250,000	
Domestic Hot Water Load			1,000,000	
Range			250,000	
Deep Fryer			160,000	
Ovens			300,000	
Total				1,960,000
Condominium Units				
Space Heating (1 Bedroom)	86	2000	5,160,000	
Space Heating (2 Bedroom)	171	2200	11,286,000	
Space Heating (3 Bedroom)	86	2400	6,192,000	
Domestic Hot Water (combined)	342		17,100,000	
Cooking Gas (combined)	342		21,546,000	
Clothes Dryer (combined)	342		8,208,000	
Total				69,492,000
Rental Units				
Space Heating (1 Bedroom)	222	1250	8,325,000	
Space Heating (2 Bedroom)	318	1525	14,548,500	
Space Heating (3 Bedroom)	95	1700	4,845,000	
Domestic Hot Water (combined)	635		31,750,000	
Cooking Gas (combined)	635		25,400,000	
Clothes Dryer (combined)	635		15,240,000	
Pool (20'x40'x5' deep) = 30,000 gal/365 days			515,122	
Total				100,623,622
Workforce Condominium Units				
Space Heating (1 Bedroom)	6	1025	184,500	
Space Heating (2 Bedroom)	32	1190	1,142,400	
Domestic Hot Water (combined)	38		1,900,000	
Cooking Gas (combined)	38		1,520,000	
Clothes Dryer (combined)	6		144,000	
Total				4,890,900
Workforce Rental Units				
Space Heating (1 Bedroom)	11	1050	346,500	
Space Heating (2 Bedroom)	60	1210	2,178,000	
Domestic Hot Water (combined)	71		3,550,000	
Cooking Gas (combined)	71		2,840,000	
Clothes Dryer (combined)	6		144,000	
Total				9,058,500
Hotel				
Hotel Units	125	93750		
Domestic Hot Water (Hotel)			1,000,000	
Clothes Dryer (2 every other floor)	12		288,000	
Restaurant (Space heating)	160	4000	200,000	
Domestic Hot Water (Rest.)			1,000,000	
Range			250,000	
Deep Fryer			160,000	
Ovens			300,000	
Conference Room Seats	400	10000	500,000	
Catering Seats	300	8000	400,000	
Spa GSF (sf)	18,000	18,000	450,000	
Retail GSF (sf)	5,300	5,300	265,000	
Pool (20'x40'x5' deep) =			515,122	

30,000 gal/365 days Marina Support Building (sf) Luxury Boat Marina (15 slips)	600	600	15,000	
Total				5,343,122
Office Office GSF		50,000	2,500,000	2,500,000
Total				
Angler's Club Angler's Club (heating) Angler's Club (hot water) Angler's Club Marina (39 slips)		1,500	75,000 50,000	
Total				125,000
Commercial/Cultural Commercial/Cultural GSF (sf) Marina Support Building (sf) Domestic Hot Water Transient Marina (40 slips)		20,000 1,200	1,000,000 60,000 50,000	
Total				1,110,000
PROJECT TOTAL =				195,103,144 Btuh

NOTES:

1. Apartment space heating assumed @ 30 Btuh/sf
2. Apartment water heater assumed @ 50,000 Btuh/per heater
3. Gas fired range and oven for Condominium and Townhouses assumed @ 63,000 Btuh/apt. Based on Viking.
4. Gas fired range and oven for Rental and Workforce housing units assumed @ 40,000 Btuh/apt.
5. Assumed each apartment will have a gas fired clothes dryer @ 24,000 Btuh/dryer
6. Assumed all pools will be indoor and heated.
7. Hotel rooms to have electric heat pumps.
8. Restaurant heat load assumed @ 50 Btuh/sf.
9. The above load should be recalculated once the design is finalized.



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PROPOSED PRELIMINARY GAS LOAD (1085)

DATE: 7/28/2011
 PROJECT NO.: 03610-001
 PROJECT NAME: **Glen Isle Glen Cove Waterfront Redevelopment**
 PROJECT TOWN: City of Glen Cove, Nassau County, NY
 PREPARED BY: Lisa Fisher

Modified BR Mix for Sensitivity Analysis				
	<u># of Units/Size</u>	<u>Square ft</u>	<u>Btu/hr</u>	<u>Sub-Total (Btu/hr)</u>
RESTAURANT AT POINT				
Space Heating Load		5000	250,000	
Domestic Hot Water Load			1,000,000	
Range			250,000	
Deep Fryer			160,000	
Ovens			300,000	
Total				1,960,000
Condominium Units				
Space Heating (1 Bedroom)	80	2000	4,800,000	
Space Heating (2 Bedroom)	159	2200	10,494,000	
Space Heating (3 Bedroom)	103	2400	7,416,000	
Domestic Hot Water (combined)	342		17,100,000	
Cooking Gas (combined)	342		21,546,000	
Clothes Dryer (combined)	342		8,208,000	
Total				69,564,000
Rental Units				
Space Heating (1 Bedroom)	209	1250	7,837,500	
Space Heating (2 Bedroom)	299	1525	13,679,250	
Space Heating (3 Bedroom)	127	1700	6,477,000	
Domestic Hot Water (combined)	635		31,750,000	
Cooking Gas (combined)	635		25,400,000	
Clothes Dryer (combined)	635		15,240,000	
Pool (20'x40'x5' deep) = 30,000 gal/365 days			515,122	
Total				100,898,872
Workforce Condominium Units				
Space Heating (1 Bedroom)	5	1025	153,750	
Space Heating (2 Bedroom)	27	1190	963,900	
Space Heating (3 Bedroom)	6	1400	252,000	
Domestic Hot Water (combined)	38		1,900,000	
Cooking Gas (combined)	38		1,520,000	
Clothes Dryer (combined)	6		144,000	
Total				4,933,650
Workforce Rental Units				
Space Heating (1 Bedroom)	11	1050	346,500	
Space Heating (2 Bedroom)	49	1210	1,778,700	
Space Heating (3 Bedroom)	11	1400	462,000	
Domestic Hot Water (combined)	71		3,550,000	
Cooking Gas (combined)	71		2,840,000	
Clothes Dryer (combined)	6		144,000	
Total				9,121,200
Hotel				
Hotel Units	125	187500		
Domestic Hot Water (Hotel)			1,000,000	
Clothes Dryer (2 every other floor)	12		288,000	
Restaurant (Space heating)	160	4000	200,000	
Domestic Hot Water (Rest.)			1,000,000	
Range			250,000	
Deep Fryer			160,000	
Ovens			300,000	
Conference Room Seats	400	10000	500,000	
Catering Seats	300	8000	400,000	
Spa GSF (sf)	18,000	18,000	450,000	

Retail GSF (sf)	5,300	5,300	265,000	
Pool (20'x40'x5' deep) = 30,000 gal/365 days			515,122	
Marina Support Building (sf)	600	600	15,000	
Luxury Boat Marina (15 slips)				
Total				5,343,122
Office				
Office GSF		50,000	2,500,000	
Total				2,500,000
Angler's Club				
Angler's Club (heating)		1,500	75,000	
Angler's Club (hot water)			50,000	
Angler's Club Marina (39 slips)				
Total				125,000
Commercial/Cultural				
Commercial/Cultural GSF (sf)		20,000	1,000,000	
Marina Support Building (sf)		1,200	60,000	
Domestic Hot Water			50,000	
Transient Marina (40 slips)				
Total				1,110,000
PROJECT TOTAL =				195,555,844 Btuh

NOTES:

1. Apartment space heating assumed @ 30 Btuh/sf
2. Apartment water heater assumed @ 50,000 Btuh/per heater
3. Gas fired range and oven for Condominium and Townhouses assumed @ 63,000 Btuh/apt. Based on Viking.
4. Gas fired range and oven for Rental and Workforce housing units assumed @ 40,000 Btuh/apt.
5. Assumed each apartment will have a gas fired clothes dryer @ 24,000 Btuh/dryer
6. Assumed all pools will be indoor and heated.
7. Hotel rooms to have electric heat pumps.
8. Restaurant heat load assumed @ 50 Btuh/sf.
9. The above load should be recalculated once the design is finalized.



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 PROJECT TOWN: City of Glen Cove, Nassau County, NY
 PREPARED BY: Lisa Fisher

Modified Tenure Mix for Sensitivity Analysis				
	# of Units/Size	Square ft	Btu/hr	Sub-Total (Btu/hr)
RESTAURANT AT POINT				
Space Heating Load		5000	250,000	
Domestic Hot Water Load			1,000,000	
Range			250,000	
Deep Fryer			160,000	
Ovens			300,000	
Total				1,960,000
Condominium Units				
Space Heating (1 Bedroom)	193	2000	11,580,000	
Space Heating (2 Bedroom)	385	2200	25,410,000	
Space Heating (3 Bedroom)	193	2400	13,896,000	
Domestic Hot Water (combined)	771		38,550,000	
Cooking Gas (combined)	771		48,573,000	
Clothes Dryer (combined)	771		18,504,000	
Total				156,513,000
Rental Units				
Space Heating (1 Bedroom)	72	1250	2,700,000	
Space Heating (2 Bedroom)	102	1525	4,666,500	
Space Heating (3 Bedroom)	31	1700	1,581,000	
Domestic Hot Water (combined)	205		10,250,000	
Cooking Gas (combined)	205		8,200,000	
Clothes Dryer (combined)	205		4,920,000	
Pool (20'x40'x5' deep) = 30,000 gal/365 days			515,122	
Total				32,832,622
Workforce Condominium Units				
Space Heating (1 Bedroom)	13	1025	399,750	
Space Heating (2 Bedroom)	73	1190	2,606,100	
Domestic Hot Water (combined)	86		4,300,000	
Cooking Gas (combined)	86		3,440,000	
Clothes Dryer (combined)	6		144,000	
Total				10,889,850
Workforce Rental Units				
Space Heating (1 Bedroom)	3	1050	94,500	
Space Heating (2 Bedroom)	20	1210	726,000	
Domestic Hot Water (combined)	23		1,150,000	
Cooking Gas (combined)	23		920,000	
Clothes Dryer (combined)	4		96,000	
Total				2,986,500
Hotel				
Hotel Units	125	187500		
Domestic Hot Water (Hotel)			1,000,000	
Clothes Dryer (2 every other floor)	12		288,000	
Restaurant (Space heating)	160	4000	200,000	
Domestic Hot Water (Rest.)			1,000,000	
Range			250,000	
Deep Fryer			160,000	
Ovens			300,000	
Conference Room Seats	400	10000	500,000	
Catering Seats	300	8000	400,000	
Spa GSF (sf)	18,000	18,000	450,000	
Retail GSF (sf)	5,300	5,300	265,000	
Pool (20'x40'x5' deep) =			515,122	

30,000 gal/365 days Marina Support Building (sf) Luxury Boat Marina (15 slips)	600	600	15,000	
Total				5,343,122
Office Office GSF		50,000	2,500,000	
Total				2,500,000
Angler's Club Angler's Club (heating) Angler's Club (hot water) Angler's Club Marina (39 slips)		1,500	75,000 50,000	
Total				125,000
Commercial/Cultural Commercial/Cultural GSF (sf) Marina Support Building (sf) Domestic Hot Water Transient Marina (40 slips)		20,000 1,200	1,000,000 60,000 50,000	
Total				1,110,000
PROJECT TOTAL =				214,260,094 Btuh

NOTES:

1. Apartment space heating assumed @ 30 Btuh/sf
2. Apartment water heater assumed @ 50,000 Btuh/per heater
3. Gas fired range and oven for Condominium and Townhouses assumed @ 63,000 Btuh/apt. Based on Viking.
4. Gas fired range and oven for Rental and Workforce housing units assumed @ 40,000 Btuh/apt.
5. Assumed each apartment will have a gas fired clothes dryer @ 24,000 Btuh/dryer
6. Assumed all pools will be indoor and heated.
7. Hotel rooms to have electric heat pumps.
8. Restaurant heat load assumed @ 50 Btuh/sf.
9. The above load should be recalculated once the design is finalized.



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PROPOSED PRELIMINARY GAS LOAD (1120)

DATE: 5/2/2011
 PROJECT NO.: 03610-001
 PROJECT NAME: **Glen Isle Glen Cove Waterfront Redevelopment**
 PROJECT TOWN: City of Glen Cove, Nassau County, NY
 PREPARED BY: Lisa Fisher

DEIS Alt E - Max Build Out (For reference only - not being further studied)				
	# of Units/Size	Square ft	Btu/hr	Sub-Total (Btu/hr)
RESTAURANT AT POINT				
Space Heating Load		5000	250,000	
Domestic Hot Water Load			1,000,000	
Range			250,000	
Deep Fryer			160,000	
Ovens			300,000	
Total				1,960,000
Condominium Units				
Space Heating (1 Bedroom)	195	2000	11,700,000	
Space Heating (2 Bedroom)	390	2200	25,740,000	
Space Heating (3 Bedroom)	195	2400	14,040,000	
Domestic Hot Water (combined)	780		39,000,000	
Cooking Gas (combined)	780		49,140,000	
Clothes Dryer (combined)	780		18,720,000	
Total				158,340,000
Rental Units				
Space Heating (1 Bedroom)	80	1250	3,000,000	
Space Heating (2 Bedroom)	114	1525	5,215,500	
Space Heating (3 Bedroom)	34	1700	1,734,000	
Domestic Hot Water (combined)	228		11,400,000	
Cooking Gas (combined)	228		9,120,000	
Clothes Dryer (combined)	228		5,472,000	
Pool (20'x40'x5' deep) = 30,000 gal/365 days			515,122	
Total				36,456,622
Workforce Condominium Units				
Space Heating (1 Bedroom)	17	1025	522,750	
Space Heating (2 Bedroom)	95	1190	3,391,500	
Domestic Hot Water (combined)	112		5,600,000	
Cooking Gas (combined)	112		4,480,000	
Clothes Dryer (combined)	8		192,000	
Total				14,186,250
Workforce Rental Units				
Space Heating (1 Bedroom)	0	1050	0	
Space Heating (2 Bedroom)	0	1210	0	
Domestic Hot Water (combined)	0		0	
Cooking Gas (combined)	0		0	
Clothes Dryer (combined)	0		0	
Total				0
Hotel				
Hotel Units	250	187500		
Domestic Hot Water (Hotel)			2,000,000	
Clothes Dryer (2 every other floor)	12		288,000	
Restaurant (Space heating)	160	4000	200,000	
Domestic Hot Water (Rest.)			1,000,000	
Range			250,000	
Deep Fryer			160,000	
Ovens			300,000	
Conference Room Seats	400	10000	500,000	
Catering Seats	300	8000	400,000	
Spa GSF (sf)	18,000	18,000	450,000	
Retail GSF (sf)	5,300	5,300	265,000	
Pool (20'x40'x5' deep) =			515,122	

30,000 gal/365 days Marina Support Building (sf) Luxury Boat Marina (15 slips)	600	600	15,000	
Total				6,343,122
Office Office GSF		50,000	2,500,000	2,500,000
Total				
Angler's Club Angler's Club (heating) Angler's Club (hot water) Angler's Club Marina (39 slips)		1,500	75,000 50,000	
Total				125,000
Commercial/Cultural Commercial/Cultural GSF (sf) Marina Support Building (sf) Domestic Hot Water Transient Marina (40 slips)		20,000 1,200	1,000,000 60,000 50,000	
Total				1,110,000
PROJECT TOTAL =				221,020,994 Btuh

NOTES:

1. Apartment space heating assumed @ 30 Btuh/sf
2. Apartment water heater assumed @ 50,000 Btuh/per heater
3. Gas fired range and oven for Condominium and Townhouses assumed @ 63,000 Btuh/apt. Based on Viking.
4. Gas fired range and oven for Rental and Workforce housing units assumed @ 40,000 Btuh/apt.
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