ENERGY CONSIDERATIONS CHECKLIST (November 27, 2011) Planning & Community Development and Code Enforcement Office OWN Of Durn Town Hall, 15 Newmarket Road, Durham, NH 03824; 603-868-8064

-PURPOSE -

Planning, Assessing,

This checklist was developed by the Durham Energy Committee together with the Durham Planning Board. It is intended to encourage developers, applicants for Site Plan Review, applicants for building permits, and members of the Durham Planning Board to consider and discuss optional energy efficiency measures appropriate to a specific application rather than to mandate general requirements. Discussion at early stages may result in opportunities for energy and cost savings.

Kappa Delta Sorority Parking expansion

Date	of S	ubmitt	tal	9-4-2013				
Applicant name)	MJS Engineering, PC				
Engi	ineer	name		Same				
Arch	nitect	name		N/A				
				☐ New Construction ☑ Re-Development, Addition or Renovation				
PAR	T1. I	BUILD)	ING CO	ONSTRUCTION, SYSTEMS AND MATERIALS				
			Natio	nal Accredited Rating for Building Energy System				
Chec	ck on	e box:	1	Does your building meet standards for:				
				Passive House Institute* http://www.passivehouse.us/passiveHouse/PHIUSHome.html				
		. 🗖		International Living Building Institute/Living Building Challenge* http://living-future.org/lbc				
				LEED* (Platinum, Gold, Silver) http://www.usgbc.org/>				
				Energy Star* http://www.energystar.gov/>				
				Other [please indicate Internet address or other reference]				
				* These organizations have established energy-efficiency criteria. Qualifying applicants are encouraged to complete and attach the checklist from that certification (to be used for informational purposes only) and may then skip to Part IV, "Consultation with Director of Zoning, Building Codes & Health."				
		×		None of the above				
Yes		N/A	Ener	gy performance and insulation				
	<u> </u>	\Q (Attic or ceiling insulation exceeds Town code (R value proposed =) (see Chapter 38)				
<u> </u>		Ş	3	Walls insulation exceeds Town building code (R value proposed = (see Chapter 38)				
		又	4	Air sealing: passive air infiltration rate proposed*:				
		Ž		Slabs: R value proposed				
	<u> </u>	<u> </u>	6	Basement foundation: R value proposed				
		×	_ 7	Hot water pipes: R value proposed				
		Þ	8	Heating ducts: R value proposed				
		ĢĹ	9	Plans to commission the building to confirm performance				
				* "Tight" envelopes require ventilation, typically with the use of energy or heat recovery ventilation systems				

Project name

Yes	No	N/A		struction methods and materials
		<u></u>	10	, ., ., ., ., ., ., ., ., ., ., ., ., .,
		×	11	Energy efficient doors and windows (including screens)
		Ş 1.	12	Recycled content materials
Yes	No	N/A		nal systems
		Ø.	13	Low-flow plumbing fixtures
		X	14	Lighting: high efficiency
		M	15	Energy usage monitoring system(s)
		Ø.	16	Energy-efficient appliances (refrigerators, stoves, air conditioners, ceiling fans, etc.)
		X	17	Energy-efficient HVAC system (proposed efficiency level)
)A(18	Renewable HVAC system (e.g., biomass boiler or furnace) or geothermal
		JX (19	Renewable hot water system (e.g., solar thermal)
		澉	20	Photovoltaic renewable electricity generation system (i.e., solar panels)
		j ž K.	21	Window technology or design that adjusts shading (active or passive, e.g., film, sensors)
		越	22	Ability to charge electric vehicles
		j a í		Grey-water system (e.g., to capture water from sinks or showers to use for toilets or flower gardens)
		X C	24	Mechanical ventilation: Energy Recovery Ventilator efficiency proposed =
		Ø.	25	Water usage monitoring system(s)
		ΣŪ	26	Cooling load reduction features, e.g., ceiling fans, solar-ray-blocking blinds
		,		IIING CONSIDERATIONS (IF ITOGRAPILE I DILA CIRCA (1010)
Yes	No	N/A		lighting, heating and cooling (passive and active)
		<u> </u>		Passive solar lighting design (optimizes natural illumination for interiors)
		X	28	Solar access: availability of, or access to, unobstructed, direct sunlight, usually south-facing
		12	29	Preservation of abutting solar rights, e.g., solar skyspace easements applicable to all plots within a subdivision or to your neighbors
		ST.	30	
-		<u>¥=</u> ∪	31	and the state of t
<u> </u>		<u> </u>	32	
			33	
	 _	<u> </u>	- 33	vogetated rechtep(s), also known as a green rech
Yes	No	N/A	Park	ing
	X		34	Incentives for tenants without cars ("no free parking")
E,			35	Compact car space designation
	/		36	Advanced technology and/or alternative fuel car space designation (e.g., hybrids; "E85")
Yes	No	N/A	Trans	sportation, accessibility, connectivity
Yes X			37	Pedestrian sidewalk network within the project area
NAT.	Ġ		38	
) A			39	Storage for bicycles outdoors (covered/uncovered)-(secured/ansecured) <ple>please circle</ple>
	Œ			Storage for bicycles indoors (secured/unsecured) <ple>please circle</ple>

PART III. OPERATIONS AND MAINTENANCE (if not applicable, check here												
Yes	No	N/A	Land	Iscaping								
				Town water use results in lower electricity demand at water and wastewater treatment plants.								
)		Rainwater storage, e.g., cisterns								
<u> </u>			42	Existing vegetation or native species plantings								
		×		Xeriscaping (low-water-demand plants)								
)ŽK		44	Low-nitrogen-demand turf grass								
_¤Ĺ	ٔ ت		45	Rain garden ("bioretention system") to manage stormwater runoff from roofs, driveways, parking area	as							
			Cove	enant terms (e.g., for homeowner associations) allow:								
		X	46	Outdoor clotheslines								
_		Ø	47	Installation of outdoor energy-efficiency devices, such as solar panels								
		W 2 78 1 1 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2	NAME OF TAXABLE PARTY.									
			1.54									
DAR	F RV	епла	III TAT	TON WITH DIRECTOR OF ZONING, BUILDING CODES & HEALTH								
	1 (88 5 / 6				A. C. P.							
Preli	mina	ry and	follow-เ	up consultations help solve problems and reduce costs								
Yes	No	N/A	Met v	with Town's Director of Zoning, Building Codes & Health								
	Ø		48	Date:								
	7			Notes from consultation:								
				Tiotod Tolli dollaratati								
			·	<u></u>								
	•			· · · · · · · · · · · · · · · · · · ·								
				Signature of Town's Director of Zoning, Building Codes & Health:								
				e.g. start c. 15711 o Brioton on Zonning, Bunding Goddo & Hould I.								

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