CONCEPTUAL

CITY OF FRANKLIN SITE PLAN REVIEW APPLICATION

Location of Proposed Development: Comm	erce Drive New Map #:
Parcel ID (Map/Lot #): 102/9 & 102/402	Zoning of Parcel: Industrial 1
Applicant Name: Commerce Drive Solar, LLC Address: 4445 Eastgate Mall Rd., Suite City/State/Zip: San Diego, CA 92121 Phone: 603-817-1175 Email: Akellar@luminia.io Applicant's Agent/Engineer	Owner of Record Name: Franklin Commons Realty Group
Name: Nobis - Group Address: 18 Chenell Drive City/State/Zip: Concord, NH 03301 Phone: 603-513-1018 Email: gseibert@nobis-group.com	Name: Address: City/State/Zip: Phone: Email:
approximate 2 megawatt (AC) solar array on two	The project involves construction of an oundeveloped wooded parcels. The installation will extrical conduit, energy converting equipment, an access atrols.
Number of Proposed Buildings/Units: None Frontage on What Road(s): Commercial Drive	
Services Available: Sewer Municipal N/A Non-Municipal Services Proposed/Available, E	
Site in Acres 54.6 Acres	Developable Acres 52.8 Acres
Are waiver's requested, and if so, please fill out	t attached Waiver Request sheet: Yes X No
Zoning Board Approvals Granted: Variand Please Explain:	
Does this submission represent an amended portion Date approval Granted: Conditions of Approval:	ılan: Yes X No
	ing Board: Yes X No
Signature of Applicant:	Date:

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Deadline Da	ate: 3/6/2024	Actual Date Submitted	1: 3/4/2024	
Meeting Date:				
Amount Du	e Application: _\$			
Amount Due Abutters: \$		Total Number of Abutt	Total Number of Abutters:	
	Total Due: \$			
	Amount Paid: \$	How Paid: Cash	Check #	
Date Paid				
Is the following information attached to this application: Abutter's List, complete with Name, Address, City, State, Zip and Map/Lot #; 16 Paper Prints of the Plan (4 Department Review Sheets/12 Member Sheets);				
Letter of Authorization from the Owner of Record; and,				
Waiver's List and explanation.				
What Supportive Documentation was submitted:				
	Hearing Dates:	Outcome:		

Amount	Due Abutters:	\$	_ Total Number of Abut	ters:
	Total Due:	\$	_	
	Amount Paid:	\$	_ How Paid: Cash _	Check #
Date Paid			_	
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= :	Hearin	g Dates:	Outcome:	
				* - ·





March 6, 2024 File No. 100704.000

City of Franklin- Planning Board 2 High Street Franklin, NH 03235 (603) 522-6205

Re: Project Narrative for Conceptual Site Plan Review Application

Commerce Drive Solar, LLC. Tax Map 102, Lot 9 & 402 Commerce Drive Franklin, NH 03235

On behalf of Franklin Commons Realty Group (Owner) and Commerce Drive Solar, LLC (Applicant), Nobis Group (Nobis) is submitting this project narrative to the City of Franklin Planning Board (PB) along with an application for a conceptual site plan review. The proposed project is located at the terminus of Commerce Drive, Tax Map 102, Lot 9 and 402 (Site). Please also refer to the attached Site Plan drawings for additional information.

The Applicant, Commerce Drive Solar, LLC, (Parent Company Luminia) has successfully permitted and constructed several similar solar arrays across the state which has increased renewable energy sources within those municipalities.

BACKGROUND AND SITE CHARACTER

The Site is located in the Industrial 1 Zone and is bound by Industrial businesses to the north, south and west, and by residential properties to the east. The Site consists of two parcels which consist of 2,377,318 SF (54.6 acres). The terrain within the panel area slopes gently from the west towards the northern and southern extents of the project area. There are delineated wetlands located to the north and south of the project area. These wetlands will not be impacted by the proposed project.

Nobis Group® 18 Chenell Drive Concord, NH 03301 T (603) 224-4182



SITE PLAN APPLICATION - PROJECT DESCRIPTION

The proposed site development features the construction of a 2.0-Megawatt (MW) photovoltaic solar array. Supporting this array and its appurtenances will be new electric utility lines, wildlife-friendly security fencing, a gravel access drive, new utility poles, stormwater controls including two sediment basins, and other Site improvements. The solar array will encompass approximately 5.9 acres, and the total on-site disturbance will be approximately 13.2 acres.

Access to the site will be provided by a 14' gravel driveway located at the end of Commerce Drive. The access drive will be approximately 1143' long with two locations for vehicle turnarounds. Wildlife friendly knot wire fencing will be installed along the perimeter to secure the solar array.

During the regular operation of the solar array, access to the site is expected to be minimal and will primarily consist of infrequent maintenance. As such, vehicle trips to and from the site are estimated to be 2 – 3 times per year.

To mitigate storm water runoff from the proposed project, the proposed site/stormwater design will incorporate the use of Best Management Practices (BMPs). Peak flows from the 2, 10, and 50-year storm will be reduced in accordance with the New Hampshire Department of Environmental Services' regulations.

We trust this project narrative meets the requirements of the City of Franklin and we look forward to meeting with Board members. Please feel free to contact me with any questions or if you need additional documentation.

Sincerely,

NOBIS GROUP®

J. Chris Nadeau, PE Director of Commercial Services cnadeau@nobis-group.com (617) 710-9449 (mobile)

Commerce Drive Solar - Solar Equipment Examples

• Section 305-29.2 F3 (c): See plan updates along with the following images of the equipment required in the Eversource application and an example of a transformer layout.





Commerce Drive Solar - Panel and Equipment Specifications

 Section 305-29.2 G (1) & (2): All solar panels must have anti glare coating (see attached spec sheet) and noise calculations by a certified electrical engineer are below. It should be noted that a normal human conversation is traditionally 60 Db and the transformers spec'ed for this project is 58 Db.



Specificación	Data
Cell Type	Mono-crystalline
Cell Arrangement	144 [2 x (12 x 6)]
Dimensions	2266 × 1134 × 35 mm (89.2 × 44.6 × 1.38 in)
Weight	32.2 kg (71.0 lbs)
Front Glass	2.0 mm heat strengthened glass with anti- reflective coating
Back Glass	2.0 IIIIII neat strengthened glass
Frame	Anodized aluminium alloy
J-Box	IP68, 3 bypass diodes
Cable	4.0 mm ² (IEC), 12 AWG (UL)
Cable Length (Inclu-	410 mm (16.1 in) (+) / 290 mm (11.4 in) (-) or customized length*

T6 or T4 series or MC4-EVO2

Per Container (40' HQ) 600 pieces or 540 pieces (only for US)

* For detailed information, please contact your local Canadian Solar sales and technical

representatives.

30 pieces

Data

MECHANICAL DATA

Specification

Connector

Per Pallet

Assuming that you are buying standard transformers, per NEMA TR-1, a 1000 kva pad mounted transformer's the average allowable aucible sound level is 58 db.

Table 4. Audible Sound Levels

	NEMA®TR-1 Average		
Self-Cooled, Two Winding kVA Rating	Decibels (dB)		
45-500	56		
501-700	57		
701-1000	58		
1001-1500	60		
1501-2000	61		
2001-2500	62		
2501-3000	63		
3001-4000	64		
4001-5000	65		
5001-6000	66		
6001-7500	67		
7501-10000	68		

Scott Secrest PE 64 Beacon St , Unit C202 Worcester, MA 01608

781-929-0139

scott.secrest@ssecrestpe.ccm

Commerce Drive Solar - Similar Project Completion Photos

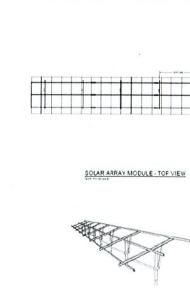
Section 402-7 (1): The project will incorporate fixed tilt panels at a 25-degree angle facing south. Below are examples of this type of layout.



Commerce Drive Solar - Additional Specifications















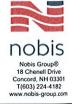












NOT ISSUED FOR CONSTRUCTION

COMMERCE DRIVE SOLAR, LLC

SOUTH MAIN STREET FRANKLIN, NH 03235

TAX MAP: MAP 102 / LOT 009

OWNER(S): FRANKLIN COMMONS REALTY GROUP, LLC 70 INDUSTRIAL PARK ORIVE, SUITE 7 FRANKLIN, NH 03235

APPLICANT: COMMERCE DRIVE SOLAR, LLC C/O LUMINIA 4445 EASTGATE MALL ROAD, SUITE 200 SAN DIEGO, CA 92121

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NO.	DATE	DESCRIP
	RE	VISIONS

DRAWN BY: CHECKED BY: CAD DRAWING FILE: 100704.000-C-200-SITE.dwg

SHEET TITLE

SITE OVERVIEW

SHEET

C-1

