

City of Somerville



Traffic Department Solar- Installation

12.23.2025



December 23, 2025

Garrett Anderson
Somerville Municipal Energy Manager
Mayor's Office of Sustainability and Environment
City Of Somerville
50 Evergreen Avenue, Somerville, MA 02145

RE: Solar PV Installation at the Somerville Traffic and Parking Building

Good afternoon,

We are pleased to submit our proposal to the City of Somerville. This proposal is for the installation of a solar PV installation at the Somerville Traffic Department Building. You will find our Project Summary, Statement of Work, and financials on the following pages.

The following pages include complete pricing and specifications for the proposed equipment. We appreciate this opportunity and look forward to working with you on this project. If you have any questions or we can be of any further assistance, please do not hesitate to reach out.

We look forward to working with you.

Thank you,

Patrick Mahoney

Project Summary

Based on the site walk conducted by our team in September 2025 and customer furnished utility information and design documents, Guardian Energy Management Solutions, LLC proposes to install a 67-kW DC Watts solar system that will offset ~48% of the facilities existing usage.

Energy Production and Environmental Impact



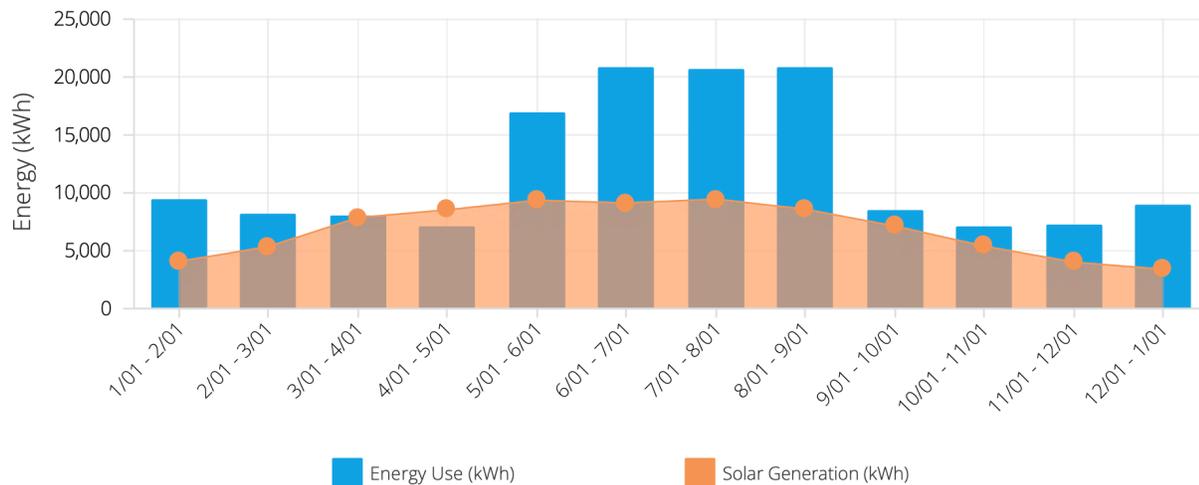
1,288
tons of CO2 Offset



2,927,465
Miles Driven by Cars



19,314
Trees Planted



Rebates and Incentives

Investment Tax Credit (ITC) - 30% (with Adders)

A federal Investment Tax Credit (ITC) for Photovoltaic (PV) projects at a rate of 30% of the total PV system cost. Unlike tax deductions, this tax credit can be used to directly offset your tax liability dollar for dollar. The PV ITC allows a carryback period of 3 years, and the carryforward period of 22 years, in cases where the tax credit exceeds a customer's tax liability in the 'placed-in-service' year.

For PV projects greater than 1 MW AC in size, prevailing wage and apprenticeship requirements take effect in order to qualify for the full 30% "increased rate", rather than a "base rate" which would only qualify for a 6% ITC. Projects with an output of less than 1 megawatt qualify for the "increased rate" irrespective of if prevailing wage or apprenticeship requirements are met. In addition to the 30% ITC, three different types of ITC "Adders", which provide additional tax credits of up to 10% each, for projects that meet specified requirements. (1) Energy Community. (2) Low-income. (3) Domestic Content.

Solar Massachusetts Renewable Target (SMART) - PV Incentive

Massachusetts SMART Tariff for those considering installing a Behind-the-Meter System (Tariff Generation Unit under the SMART Program.) The Solar Massachusetts Renewable Target (SMART) Program is the newest program established to support the development of solar in Massachusetts. The DOER regulation in 225 CMR 20.00 sets the regulatory framework for the program. The tariff based incentive is paid directly by the utility company to the system owner, following the approval of the application by the Solar Program Administrator. The SMART Program is a 1600MW declining block



incentive program. Eligible projects must be interconnected by one of three investor-owned utility companies in Massachusetts: Eversource, National Grid, and Unitil. Each utility has established blocks that decline in incentive rates between each block. If adding Energy Storage to the Proposal and claiming the SMART Tariff make sure to enter the Energy Storage Adder on the Excel calculator to include it in the total incentive value.

Financial Summary

Measure Description	Estimated Annual Savings ¹		Installed Cost	Tax Credits and Solar Incentives	Net Cost
	kWh Produced	Annual Savings			
Solar PV Installation	82,186	\$20,154	\$179,349	\$100,000	\$79,349
¹ Savings calculations are based on customer supplied electrical rate of \$0.16/kWh					
** Incentives and credits are estimates only and subject to approvals					

Scope of Work

Installation Materials

QTY	MFG	Part
114	SEG Solar Inc	SEG-590-BTA-BG 590W YUKON N SERIES HALF-CELL N-TYPE BIFACIAL MODULE
114	SOLAREEDGE	C651U DOMESTIC CONTENT COMPLIANT* OPTIMIZER C-SERIES, PVRSS COMPLIANT, FOR 1 MODULE, INPUT UP TO 715W, 80V, 20A, OUTPUT UP TO 650W, 24A, OUTPUT CABLES 3.0M (+) AND 0.1M (-), INPUT CABLES 2 X 1.4M, SENSE CONNECT ON OUTPUT CONNECTOR,
1	SOLAREEDGE	SE-TRI-US00IBNS4 Three Phase Synergy Manager
3	SOLAREEDGE	USESUK-USR0INNN8
176	UNIRAC	370010-US RM10 EVO FIELD BAY (US)
31	UNIRAC	370011 RM10 EVO NORTH BAY
694	UNIRAC	370023-US EVO MOD CLAMP BULK
694	UNIRAC	370022 EVO MOD CLAMP SIDE BOLT BULK
71	UNIRAC	370030 EVO MID SUPPORT
80	UNIRAC	310760 RM10 EVO ROOF PAD
113	UNIRAC	008115M MLPE TIGER CLIP

System Layout and Locations



Site Preparation

- Establish laydown area and material staging.
- Roof protection, temporary edge protection, and fall-arrest systems.
- Electrical room preparation and equipment pads (if needed).
- Layout and install racking per stamped drawings.
- Attach or ballast per design, verify torque and pull-out (for mechanical attachments).
- Module installation, clamp positions per manufacturer specs.
- Roof penetrations sealed with approved flashing; coordinate with roofer for membrane warranty.

Electrical Work

- DC home runs, stringing per schedule, wire management, labeling.
- Conduit, disconnects, branch protection, sub-panels, etc. required to meet project requirements will be installed in accordance with local codes and manufacturer's guidelines.
- Rapid shutdown devices (module-level or array-level) per NEC 690.12.
- Inverter installation and AC cabling, disconnects, panelboard integration.
- Grounding & bonding per NEC and UL 2703.
- Surge protection (DC/AC), coordination with existing service.
- Metering and monitoring device installation; network connectivity setup.

Commissioning and Handover

- Functional testing: inverters, rapid shutdown, monitoring.
- Performance verification against model (weather-normalized initial snapshot).
- Owner training (O&M overview, monitoring portal).
- Deliverables package:
 - As-builts (PDF & CAD), PE stamps
 - Product data sheets & warranties
 - Test reports (IR, IV curves if performed)
 - Commissioning checklist and utility PTO letter

- O&M manual, emergency shutdown procedure placard
- Serial number register and warranty assignments

General

- Packaging and loading of all equipment and material at Guardian Energy Management Solutions
- Provide all required rigging services to offload and set equipment per manufacturer's guidelines.
- Provide up training to facility staff

Assumptions & Exclusions

- All work quoted as Prevailing wage. Overtime and off-shift work is not included.
- Electrical upgrades beyond disconnecting and reconnecting the units are not included
- Excludes costs for any required detail (fire, security, etc.).
- Any building upgrades required to meet code are excluded. None are expected.
- Overall system design/layout may be adjusted/modified based on final site conditions and final engineering design review.
- As-built drawings are not included.
- We are providing our best estimate for energy production and utility incentives on this project. This is based on prior projects, savings calculations using engineering assumptions and customer provided information, and the current utility incentive program. Energy savings provided are not guaranteed and are estimated based on current energy rates and usage data provided by the customer.

Price and Payment Terms

- Payment schedule: Invoicing schedule as outlined on order form herein.
- Prices are subject to change if a confirming order is not received within 30 days. Due to the current fluctuation in pricing for materials, all quotes are subject to change and will be reviewed prior to acceptance of a purchase order.
- Prices reflect current market rates for products and availability. Please understand that Guardian does not have control over material/product costs or changes in the market due to government regulations, tariffs, or market price fluctuations. Our goal is to hold our pricing; however, we cannot guarantee pricing for more than 30 days from the date of this project summary or proposal.
- In the event of significant delay or price increase of material occurring during the performance of the contract through no fault of the Contractor, the contract sum, time of performance, and contract requirements shall be equitably adjusted by change order in accordance with the procedures of the contract documents.
- Lead time will be dependent on equipment availability at time of order plus equipment submittal approval (if required). Installation will be coordinated with the delivery of equipment contingent on the availability of our installation crews at the time of order.
- This proposal is based on a proposed schedule, if this schedule changes due to delays by the customer or their subcontractors, this may be subject to additional mobilization and travel charges.
- Installation timelines are subject to product availability. To help ensure a timely schedule, please submit your order within 30 days of the proposal. We cannot guarantee timely receipt of material or labor availability for orders received after this date.
- We are providing our best estimate for the utility incentive on this project. This is based on prior projects and the current utility incentive program. Incentives are subject to change.



Customer Requirements

- Customer will provide the most current Prevailing Wage Rate sheet to Guardian at the time the order is placed, with updated rates as required.
- Customer will provide Guardian with ST-2 and ST-5C tax exemption documentation at the time the order is placed.
- Customer to provide continuous 8.5 hours of unimpeded worksite access.
- Customer will provide a point of contact and unimpeded access to the work site, as well as unobstructed access to all fixtures on the scheduled day(s) of installation. Customer delays related to the installation of the project may result in additional costs being addressed via a change order. A Guardian Project Manager will discuss scheduling and provide updates on an ongoing basis.
- If needed Customer shall provide dedicated area for job container.
- Work to perform the project shall occur within typical working hours (6:00 a.m. - 6:00 p.m. Monday through Friday) in full-day continuous periods. Requests for labor to be performed outside of these hours should be made in advance so that Guardian may reprice the work accordingly or issue a change order.
- Customer to provide unobstructed access to work areas.

HOW ELSE MAY WE SERVE YOU?



ENGINEERING

Energy Audits
Steam System Evaluations
Compressed Air Surveys



MECHANICAL

Boilers
Chillers
Air Handlers
Cooling Towers
Pumps



ELECTRICAL

Lighting Retrofits
Back-up Generators
EV Charging Stations
VFDs
Battery Storage



**CONTROLS
& ANALYTICS**

IOT Systems
BMS Installations
Retrocommissioning
Analytics Services



**BUILDING
MAINTENANCE
SERVICES**

Boiler Tune Ups
DX Equipment Coil Cleaning
Air Handling Units
Cooling Tower Fill Cleaning
Electrical Safety Inspections
Chiller Startups & Shutdowns



**PROFESSIONAL
SERVICES**

Demand Response
Energy Procurement
Project Funding Options



ORDER FORM ACCEPTANCE

Payment Terms & Schedule: All invoices are payable Net 30. Outstanding balances are subject to a 1.5% late fee per month. All pricing is valid for **30 days** from the date of this proposal.

Total Project Cost: \$179,349

INVOICING: AIA schedule of values with monthly invoices based on project progress.

Estimated Incentives and Tax Credits: \$100,000 - The approved utility incentives will be paid directly to the city of Somerville upon project completion.

*Project Pricing & Utility Incentives: Guardian has made its best attempt to provide the most accurate financial information for your review and approval. Please note that utility incentives may be estimates, and may change the final amount due, as well as impact other information provided in this proposal if they change in any way. As part of the project scope, Guardian will submit the necessary utility applications on your behalf. A letter from the utility will be sent to you to confirm the approved incentive amount. Should this amount not match the estimated totals shown, Guardian will revise the financial details and payment schedule to reflect the actual approved incentive amount.

By signing below, you are agreeing to a contract with Guardian Energy Management Solutions on this project. You have reviewed and agreed to Guardian’s Standard Terms and Conditions. Any changes to pricing or scope of work must be made in writing and agreed to by both parties.

Printed Name

Title

Signature

Date

Customer Billing Information: Please provide your billing contact information below. All invoices will be emailed to the contact list below.

Customer Name: _____

Address: _____

City: _____ State: MA _____ ZIP: _____

Billing Contact: _____ Phone: _____

Email: _____



**GUARDIAN ENERGY MANAGEMENT SOLUTIONS, LLC'S STANDARD
TERMS AND CONDITIONS. THIS IS A CONTRACTUAL AGREEMENT. PLEASE READ CAREFULLY.
THESE TERMS & CONDITIONS INCLUDES A RELEASE OF LIABILITY AND WAIVER OF CERTAIN
RIGHTS.**

Scope of Work: Customer has retained Guardian Energy Management Solutions, LLC (hereinafter "Guardian") to provide energy efficiency solutions for customer. Customer has hired Guardian to perform the energy efficient project, identified in the Project Order Form (including any attached documents). The Project Scope of Work together with Guardian Energy Management Solutions, LLC's Standard Terms, and Conditions define the scope of work to be performed under this Agreement, (hereinafter "Project"). Any Terms and Conditions or other writings referenced, appended to and/or incorporated in any Purchase Order or Customer authorization to perform work shall not be integrated into this Agreement and are expressly waived.

Customer Warranties: Customer warrants that he/she/it owns or leases the real property at which the Project is being performed and has authority to allow Guardian to make alterations to the property appropriate for the work necessary to perform the Project, which may include without limitation drilling holes and installing hardware for use in the installation of the Project. Unless specifically identified in the Project Scope of Work, any painting or patching following the installation of equipment will be performed by Customer.

Customer warrants and affirms that it has conducted all necessary due diligence and that Customer has satisfied all formal procurement rules, regulations or laws required to enter into this Agreement with Guardian. Customer warrants and affirms that Customer has authority to bind Customer to this Agreement and Customer acknowledges that Guardian is relying upon Customer's representations as to its authority to enter this Agreement.

Customer acknowledges that upon receipt of a signed Order Form, Guardian may order goods, materials, and equipment for the Project. In the event that the Project is cancelled through no fault of Guardian, such goods, materials and equipment ordered for the Project may be subject to shipping charges and/or restocking charges. Customer agrees to pay for such charges. If any goods, materials, and equipment for the Project are special order or non-stock items such that the goods, materials, and equipment cannot be returned, Customer shall pay for all such non-returnable goods, materials, and equipment. Upon payment, Customer may take possession of such non-returnable goods, materials and equipment with Customer bearing the cost of delivery of such non-returnable goods, materials, and equipment to Customer.

Permitting and Prevailing Wage: Guardian is responsible to obtain and pay for any required permitting, as applicable to the Project. Guardian will provide licensed trades people, paid at Prevailing Wage Rates, as applicable, materials and equipment necessary to perform the Project. Guardian is not responsible for repairs or alteration of Customer property or equipment beyond that defined in the Energy Efficiency Project Scope of Work.

Payment Terms: All invoices are payable with Net30 payment terms, unless otherwise defined in the Project Scope of Work. A monthly fee of 1.5% will be assessed against past due amounts after Net30 days. Prior to commencement of any work, Customer shall provide Guardian with Tax Exempt forms, if applicable.

Working Hours: Work to perform the Project shall occur within typical working hours (6:00 a.m. - 6:00 p.m., Monday through Friday). In the event, Customer requires work to be performed during other time periods, Customer may incur addition charges, unless otherwise explicitly defined in the Energy Efficiency Project Order Form. Delays in Project completion beyond the control of Guardian may result in modifications to the Project schedule, Project scope, or Project price. Guardian will provide a broom clean construction site, during and upon completion of the Project.

Site Access: Customer is responsible to provide unimpeded site access, as well as unobstructed access to all areas necessary to perform the Project. Delays caused by obstructed access to work areas, may result in additional costs to customer.

Delays: Guardian shall not be liable for any delay in the performance of the work under this Agreement resulting from or attributable to acts or circumstances beyond Guardian's control, including, but not limited to, acts of God or the public acts of government, acts of terrorism, fire, floods, epidemics, freight embargoes, unusually severe weather, riots, strikes or labor disputes, conditions of the premises, acts or omissions of the Customer or other contractors, or delays caused by suppliers or subcontractors ("Force Majeure Event(s)"). In the event Guardian is delayed in manufacturing, shipping, delivery, or any other performance under this Agreement by a Force Majeure Event and without the fault or negligence of Guardian, Guardian agrees to notify Customer in writing as soon as practicable of the causes of such delay, and Guardian shall further be entitled to an extension of the time equivalent to the duration of any such delay and a reasonable time in which to recover from said delay to resume performance. In the event any materials or equipment to be provided by Guardian under this Agreement becomes permanently unavailable as a result of a Force Majeure Event, Guardian shall be excused from furnishing said materials or equipment.

Termination for Convenience: In the event Customer terminates this Agreement through no fault of Guardian or for Customer's convenience, Customer shall provide prior written notice of termination and agrees to pay Guardian for all material furnished, ordered, or manufactured, labor performed, and services provided up to the date of termination, all out of pocket costs (including but not limited to any restocking or other charges owed to any supplier) and including a reasonable profit.



Customer Termination for Guardian Default: Customer shall have the right to terminate this Agreement for Guardian's default provided Guardian fails to cure such default within 30 days after having been given prior written notice of the default. Upon early termination or expiration of this Agreement, Guardian shall have free access to enter Customer locations to disconnect and remove any and all Guardian-owned parts, tools, and personal property. Additionally, Customer agrees to pay Guardian for all incurred but unamortized service costs performed by Guardian including overhead and a reasonable profit.

Guardian Termination: Guardian reserves the right to discontinue its service or performance under this Agreement any time payments have not been made as agreed or if alterations, additions, or repairs are made to Project during the term of this Agreement by others without prior agreement between Customer and Guardian. Should Customer fail to make payment in accordance with the terms of this Agreement and such failure continues without cure for a period of five (5) days following Customer's receipt of written notice of such payment default, Guardian may terminate this Agreement without liability.

Site Conditions & Change Orders: Guardian is not responsible for unknown site conditions that may affect the installation and/or performance of the systems installed in the Project. Customer accepts that unknown site conditions may result in a change in the scope and/or cost of the Project and Customer. After work is commenced, in the event that unknown site conditions are detected, which materially alter the scope of work necessary to perform the Project, Guardian will notify Customer of such unknown site condition(s) and will prepare a written Change Order, identifying the scope of additional work necessary to complete the Project. If an unknown site condition is identified, Guardian shall not be obligated to complete any further work on the Project, until Guardian and Customer sign the written change order, defining the scope of the additional work and materials necessary and identifying the additional charges and expenses necessitated to perform the Project. Guardian shall not be liable for any delay in performance under this Agreement resulting from unknown site conditions.

Building Code Compliance: Project work will be installed according to the applicable Codes and Regulations for the jurisdiction where the Project occurs. If during installation, as a result of an unknown site condition, Guardian identifies code violations, or equipment maintenance related issues during the Project, which must be performed to bring the Project into compliance with the applicable Codes and Regulations for the jurisdiction where the Project occurs, Guardian will notify Customer of such issues and will issue a written Change Order, under the process identified above, so that the Project can be completed in compliance with the applicable Codes and Regulations.

Hazardous Materials: If during the course of the Project, Guardian encounters any "Hazardous Materials" on the Customer's site, Guardian may cease all work on the Project until such time as Customer has remediated the Hazardous Material condition. Customer agrees to promptly remediate any Hazardous Material condition detected, to allow Guardian to complete its work on the Project. Customer, at its own cost, will be responsible to comply with all legal regulations regarding the removal and disposal of Hazardous Materials. "Hazardous Materials" means any substance commonly referred to, or defined in any law or regulation, as a hazardous material or substance, including but not limited to, chemicals, solvents, petroleum products, flammable materials, explosives, asbestos, urea formaldehyde, PCBs, chlorofluorocarbons, Freon, or radioactive materials. As defined in the scope of work in the Energy Efficiency Project Order Form, in compliance with applicable rules, bylaws, regulations and statutes, Guardian will recycle and/or dispose of any existing equipment to be removed from Customer's site as a result of the Project, including existing equipment that existing equipment contains "Hazardous Materials", to the extent such "Hazardous Materials" are identified in the Energy Efficiency Project Order Form.

Emergency Services Work: Any warranty related service calls are to be placed directly to Guardian. Upon receipt of any warranty related service call, at Customer's request, Guardian will inspect the property with Customer. If such inspection does not reveal any defects for which Guardian is liable under this Agreement, Guardian may assess Customer a service call fee.

Limitation of Liability: Under no circumstances shall Guardian be liable for any indirect, incidental, special or consequential damages, including loss of revenue, loss of use of equipment or facilities, loss of data, or economic damages howsoever arising. Guardian shall be liable for damage to property, other than equipment provided under this Agreement, and to persons, to the extent that Guardian's negligent acts or omissions directly contributed to such injury or property damage. To the extent permitted by law, Guardian's aggregate liability for any reason, whether in contract, tort (including negligence) or otherwise, will be limited to the value of the payments received by Guardian under this Agreement. The aggregate liability shall not limit the liability of Guardian for any injury to, or death of a person, caused by its gross negligence.

Time of Presentment: Any suits arising from the performance or nonperformance of this Agreement, whether based upon contract, negligence, strict liability or otherwise, shall be brought within one (1) year from the date the claim arose.

Non-Solicitation: Customer acknowledges that Guardian's employees are valuable assets to Guardian. During the term of this Agreement or one hundred eighty (180) days thereafter, if Customer hires a Guardian employee who worked directly or indirectly with Customer, Customer agrees to 1) pay Guardian an amount equal to twelve (12) months' salary for such Guardian employee and 2) reimburse Guardian for all costs associated with any training and/or licensing provided and/or paid for by Guardian for such employee.

Miscellaneous and Severability: Titles are for informational purposes only. If any provision of these Terms & Conditions is found to be invalid, illegal, or unenforceable, that term shall be deemed stricken and the remaining portions shall remain in full force and effect.



WARRANTY

From the date of completion of the Project, Guardian provides a one (1) year labor warranty for workmanship in the installation performed by Guardian, running from the date of substantial completion of the Project. Material warranties are manufacture specific and will be transferred and assigned to Customer at the completion of the Project.

THE FOREGOING WORKMANSHIP WARRANTY TERMS ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES AND GUARDIAN EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, RELATING DIRECTLY OR INDIRECTLY TO THE PROJECT, WHETHER ORAL OR WRITTEN, OR ARISING BY COURSE OF DEALING OR USAGE OF TRADE. GUARDIAN EXPRESSLY WAIVES ANY WARRANTIES OF MERCHANT LIABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

For work that involves the installation of computer components, software, or networking systems, Guardian shall install computer components, software, or networking systems according to Manufacturer's specifications. Manufacturers of such components, software or networking systems are solely responsible for any costs or expenses related to any claims, repairs, or replacements associated with such components. Furthermore, Customer acknowledges that access to software associated with such components; or networking systems may be subject to the terms and conditions of an End-User license Agreement and warranty terms applicable to such software set forth therein. Guardian shall transfer and assign to Customer all licensing agreements and warranties associated with any computer components; software or networking systems installed by Guardian in the scope of the Project.

GUARDIAN ASSUMES NO LIABILITY AND CUSTOMER HEREBY WAIVES ALL CLAIMS AGAINST GUARDIAN ARISING OUT OF THE FAILURE OF ANY COMPUTER COMPONENTS, SOFTWARE, OR NETWORKING SYSTEMS INSTALLED BY GUARDIAN AS PART OF THE PROJECT. CUSTOMER'S SOLE REMEDY FOR THE FAILURE OF ANY COMPUTER COMPONENTS, SOFTWARE OR NETWORKING SYSTEMS INSTALLED BY GUARDIAN AS PART OF THE PROJECT SHALL BE THROUGH ANY MANUFACTURER'S WARRANTIES.

Customer acknowledges that it has retained Guardian to install computer components, software, or networking systems and that such computer components, software, or networking systems have the potential of being portals or access points by which third parties could potentially access Customer's computer systems and/ or networks. Customer acknowledges and accepts that Guardian shall bear no responsibility and assumes no liability for any claims or damages that may occur as a result of third parties accessing Customer's property and systems through any computer components, software or networking systems installed by Guardian. Furthermore, Customer hereby releases Guardian from any liability for any data loss which may occur or component failures or other issues that may arise as a result of the computer component, software, or networking systems install occurring during attempted installation, testing, or any other time. Guardian is not responsible for loss of profit or any direct, indirect, special, incidental, or consequential damage occurring during or after any computer services are performed.

ALL CLAIMS FOR LIABILITY AND/OR LOSS INCLUDING WITHOUT LIMITATION ANY INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES WHICH MAY OCCUR AS A RESULT OF GUARDIAN'S INSTALLATION OF SUCH COMPUTER COMPONENTS, SOFTWARE OR NETWORKING SYSTEMS ARE HEREBY EXPRESSLY WAIVED.