

WELCOME EVERYONE!!



SMART ENERGY AUTOMATION



AIRIFY

Thank you for being here

Something about us

Smart Energy Automation, LLC (SEA) is a US company founded in 2015, located in Ronkonkoma, NY and dedicated to design, execution, and commissioning BMS projects focused on Residential, Commercial, and Industrial buildings.

Services we provide

- Controls design
- Hydronic boiler room design.
- Sequence of operations.
- Control panels manufacturing.
- Visualizer & PLC's programming.
- Customized Scada.
- Low Voltage wiring.
- Supervision & Coordination onsite.
- Start up & Commissioning.
- Maintenance.
- Technical support.
- Engineering services.
- Protocols of communication

Product Line

TREND



Smart Energy Automation, LLC 2022

Product Line

Honeywell



Product Line

Schneider
Electric



Let's talk about BMS

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What the BMS is?

A building management system (BMS) is a computer-based control system that controls and automates many aspects of a building, from fire and smoke detection to lighting and heating, ventilation and air conditioning to video surveillance and security. Everything is interconnected with a building management system with a goal toward streamlining and improving your business' efficiency. A modern, effective BMS can improve productivity, save you money on operating costs, and ensure comfort and safety for the people working in your building.

How can a BMS help you?

- **Manage illumination (lighting)** – Monitor electricity consumption and control lighting within your building
- **Cut energy costs** – Manage electricity usage to different areas of your building
- **Maintain a comfortable atmosphere** – Monitor climate, air flow and temperature
- **Keep your building secure** – Monitor building security at entrances and exits, including CCTV video surveillance, intrusion detection, motion sensors, turnstile control, access doors and alarms
- **Ensure proactive maintenance** – A BMS can help you identify when a repair or maintenance is necessary, or predict equipment failure before a crisis occurs.
- **Save on water costs** – Monitor and control pump activity for water distribution in your building
- **Real-time alerts** – Automatic alerts give you the time needed to take swift action and solve problems.
- **Historical Data** – Collection of historical data to generate reports and carry out installation analysis

INDUSTRIES

RESIDENTIAL

- Family house.
- Multifamily house
- Small size residential building.
- District HVAC.



COMMERCIAL

- Educational.
- Sports facilities.
- Healthcare.
- Offices buildings.
- Retail
- Government



TREND Honeywell

THE POWER OF **CONNECTED**



THE FUTURE OF INTELLIGENT
BUILDING MANAGEMENT

iQ VISION

TREND

iQ 4E

Honeywell

THE POWER OF **CONNECTED**

Modbus®

BACnet

THE BEST INVESTMENT FOR LIFE-LONG BUILDING
PERFORMANCE & ENERGY MANAGEMENT

**BIM
READY**

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SUPERVISOR

- IQ™VISION is a building monitoring and management solution built upon the powerful Niagara 4 Framework®. It can integrate Trend controllers, third party devices and internet protocols into a centralized software platform that is designed to manage buildings at an enterprise level.
- IQVISION serves real-time graphical information to standard web-browser clients and provides server-level functions such as: centralized data logging, archiving, alarming, trending, master scheduling, system-wide database management, and integration with enterprise software applications – all of which can be used for highlighting and investigating energy use within buildings.
- In addition, IQVISION provides a comprehensive, graphical engineering toolset for application development. HTML5 support enables the customization of user interfaces that are viewable on diverse web-enabled computers, tablets and phones.
- Third party device integration using open standard protocols such as BACnet, Modbus, MBUS and KNX is also supported.

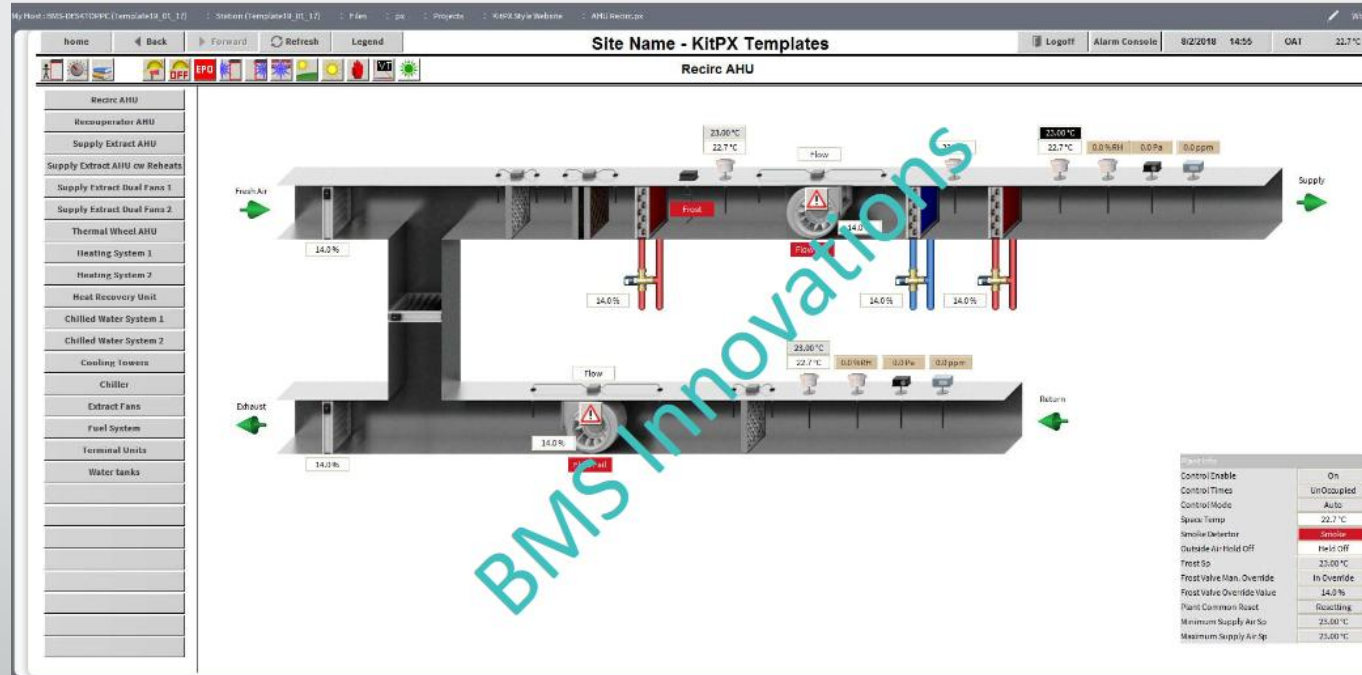


SUPERVISOR

functionality

SCHEMATICS:

IQVISION provides the facility for color graphics pages, which can display live information from the system and enable adjustments.



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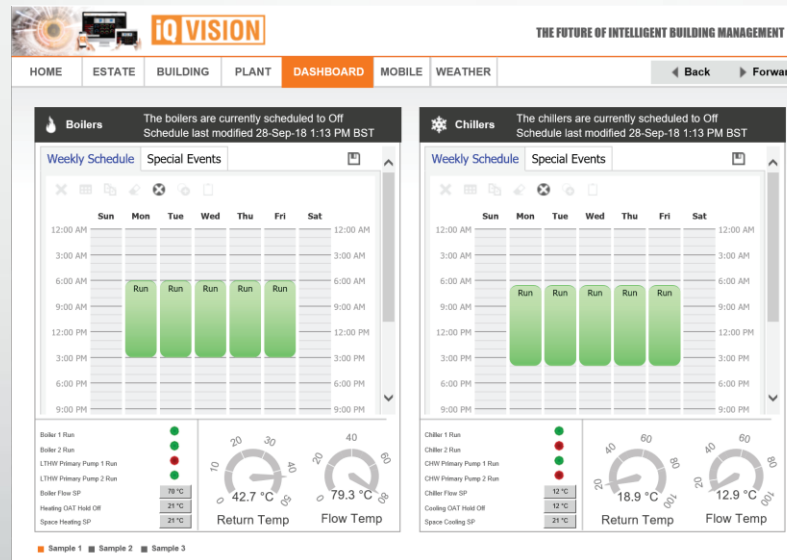


SUPERVISOR

functionality

ALARM NOTIFICATION:

IQVISION enables alarms from the systems to which it is connected to be displayed in an alarm console which displays alarms in a list and enables the user to acknowledge them. The optional alarm portal provides similar functionality on a remote PC. Alarm push notification to a mobile user/device is available using the Action Management Service.



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SUPERVISOR

functionality

POINT LIST VIEW:

The Point List view allows the points to be viewed as a list and for appropriate actions, e.g. change value, to be performed.

SECURITY:

IQVISION has a comprehensive security system that enables access to be controlled to prevent unauthorized access.

ANALYTICS:

IQVISION Supports Niagara analytics.

OCCUPATION TIMES:

IQVISION enables the occupation times of Trend devices to which it is connected to be adjusted from a central location.

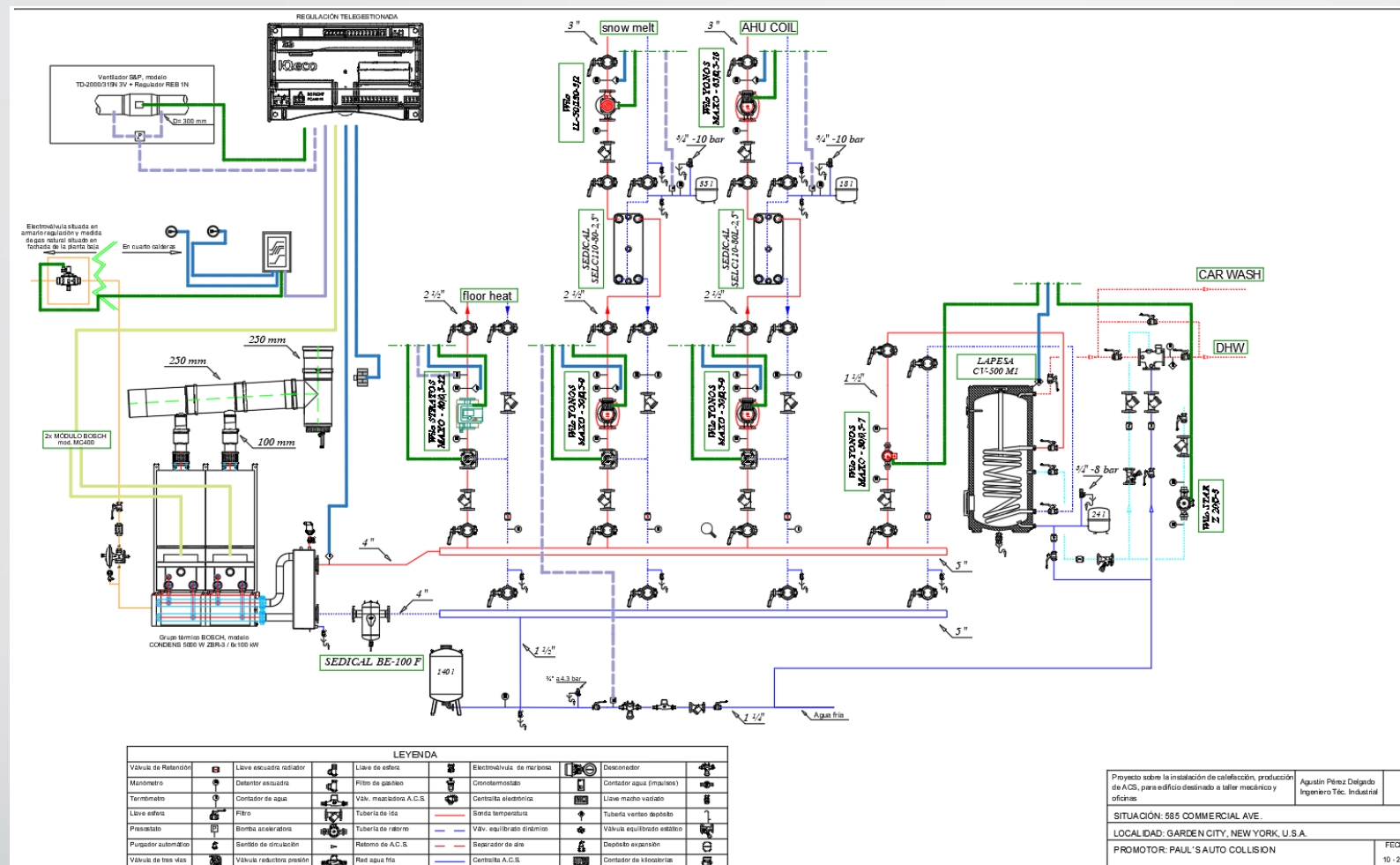
DATA MIGRATION:

IQVISION includes a Migration Tool that can be used to import system data from 963 and IQSET. Imported data can include device configurations and/or schematics.



What can we do for you?

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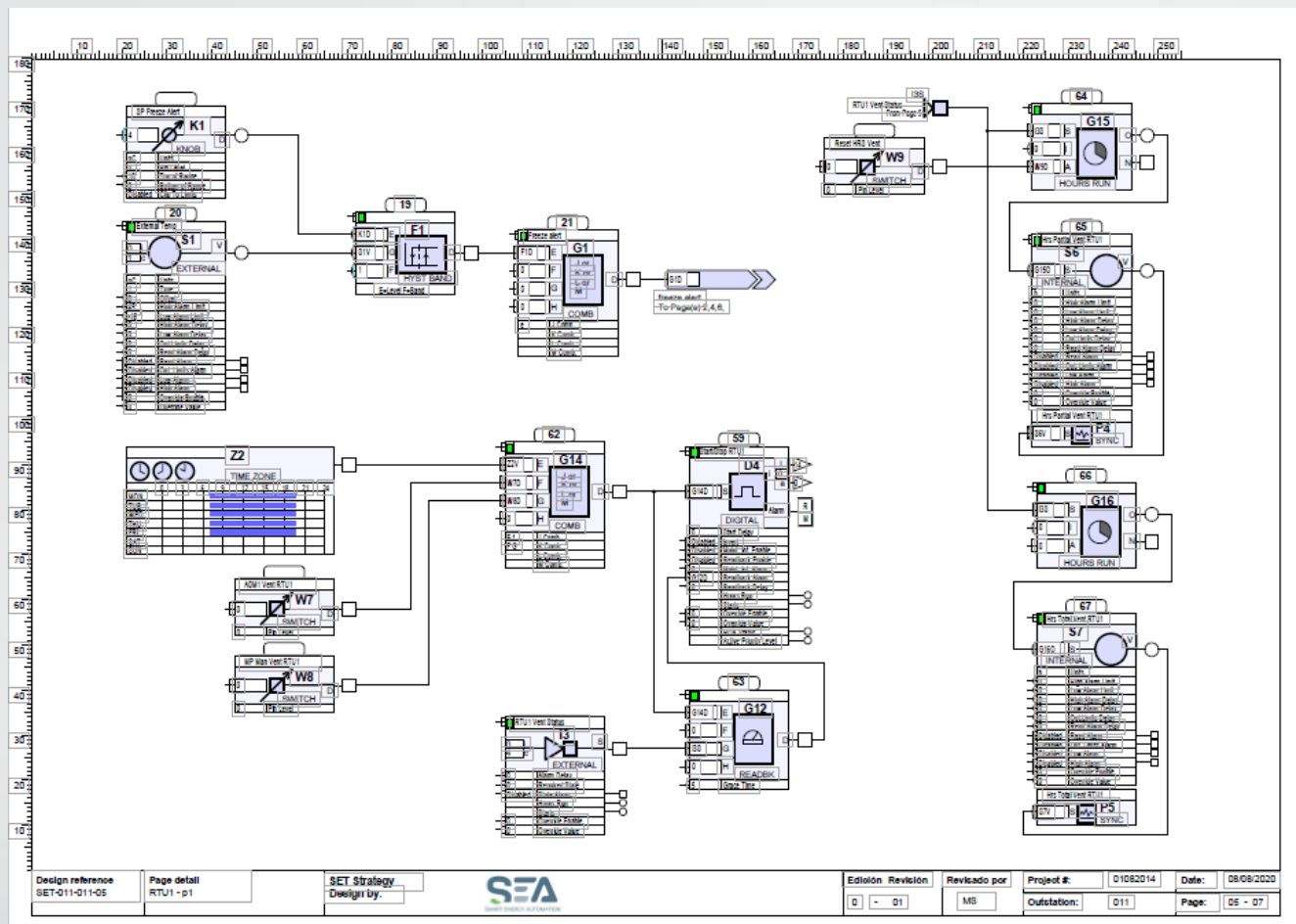
Detailed list of control points and custom sequence of operations

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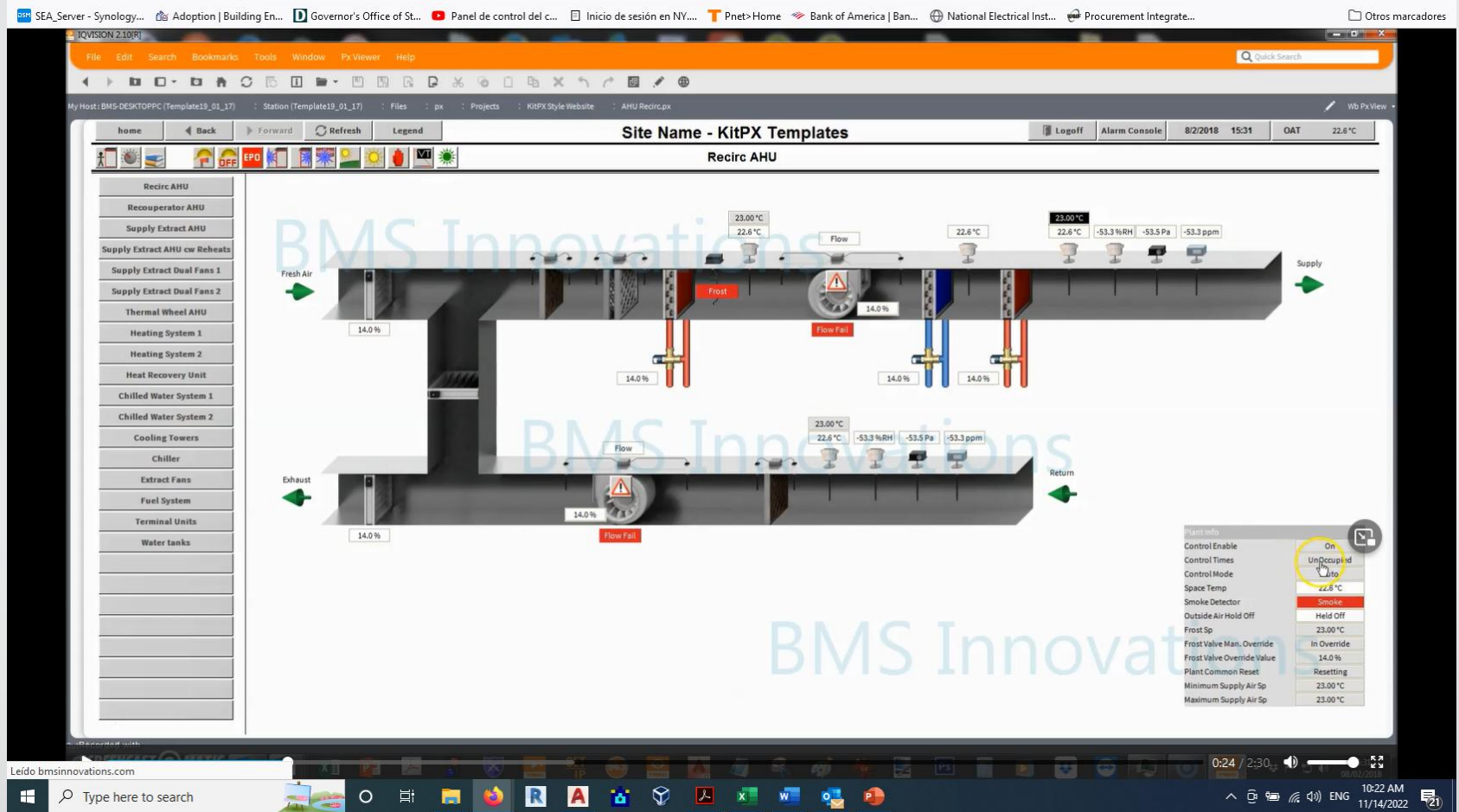
We manufacture the control panels

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Programming equipment, PLC's, and touch screens

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Programming visualizer IQVision

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Commissioning point to point on-site:

1_Point to point, checking for wires, connections failures. Pumps, Valves, Sensors, Drives...etc. Read and write temperatures, schedules, pressures, setpoints...etc.

2_Sequence of operation to match the engineering design 100%.



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Final project Report:

A job report will be delivered to the client that includes:

- *Sequence of operations.
- *Layouts.
- *Connections schemes.
- *Shop Drawings.
- *Final control point list.
- *Passwords
- *Commissioning report.

Energy Management System

For:

Primark @ King's Plaza Shopping Center

Brooklyn, NY

As Prepared By



1559 Pelham Pkwy N Bronx, NY 10469

Phone Number: (347) 523-1566



Energy Management System
For:

Porsche Huntington

As Prepared By



1559 Pelham Pkwy N Bronx, NY 10469

Phone Number: (347) 523-1566



Energy Management System

For:

TOWN OF OYSTER BAY

977 Hicksville Rd, Massapequa, NY 11758

As Prepared By



1559 Pelham Pkwy N Bronx, NY 10469

Phone Number: (347) 523-1566





THANK YOU

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