ALERT STORMWATER SYSTEM DASHBOARD PAGE LALAYOUT

It ALL starts here. A new customer buys the system. The FACTORY ADMINISTRATOR (me) must be sure the Field Located System (the electrical board in the field) is properly assigned. Carlos generates a number for the FLS. The firmware uses that as the unique identifier for the board. I give the new owner a number that will always be that municipalities number. I will number the boards as they are purchased and fill in the information below. Once I assign this information, it cannot be changed by anyone but me. This protects the integrity of the system communications. This will be done under the access allowed to the FACTORY ADMINISTRATOR.

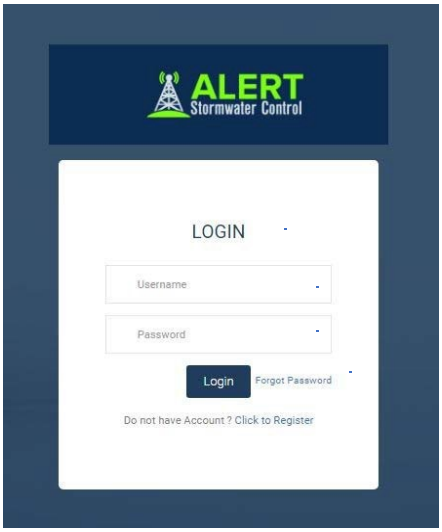
Alert Stormwater Control Panel

Owner: City Example

The FACTORY ADMINISTRATOR (me) will set all of these parameters and I am the only one that can change them. The FLS number is based on the assigned number for the firmware from Carlos

ADMINISTRATION USE ONLY - DO NOT CHANGE ASSIGNED NUMBERS

Owner Name	Assigned Owner #	FLS #	**Control #**	Location	Zone	Area Zip Code
City Example	2020001	2020011	1	Lake Johnson	EST	34134



SIGN IN PAGE

Version 1= Shown

Version 2= We need two level authentication

The first time the Customer Administrator opens this page, they will be required to register. The form to be submitted to the Factory Administrator (me) for approval. That's how it works now, you may have a better idea.

CUSTOMER ADMINISTRATOR ACCOUNT REGISTRATION

FIRST NAME:

LAST NAME:

USER NAME:

PASSWORD:

CONFIRM PASSWORD:

EMAIL:

VOICE PHONE #:

PRIMARY PHONE # FOR SMS NOTIFICATIONS:

OPTIONAL PHONE # FOR SMS NOTIFICATIONS:

ASSIGNED CUSTOMER NAME:

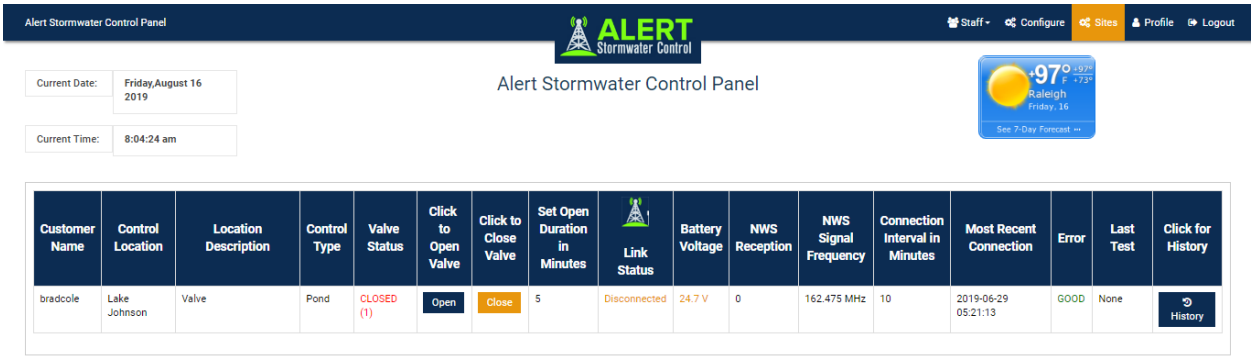
REGISTER

Will become the

Customer profile page Information added during registration process by the Customer Administrator

This is where the Customer first registers, then the "Factory Administrator" approves the new Customer Administrator. Seems logical?

Opening Dashboard- VERSION 1 Note. This was confusing and we've added new functions like the ability to set a partial open for the valve, and the optional water level sensor.



VERSION 2 Completely Different than Version 1 (clearer version on RFP

OPENING page of the DASHBOARD

This what our CUSTOMER sees and uses most often. It contains a lot of information that has been inputted from other forms AND reflects current conditions as they have been reported by the Field Located System (FLS)

Control Location	Valve Status	Click to Open Valve	Click to Partial Open Valve	Click to Close Valve	NWS Valve Open Time in Minutes	Link Status	Connection Interval in Minutes	Most Recent Connection	Battery Voltage	NWS Reception	Click for History
Lake Johnson	CLOSED	OPEN	Open	CLOSE	40	Disconnected	20	2020-01-12 07:24:20	27.0 V	15	History

Current Water Elevation	Minimum Water Elevation Close Valve
310.7	304.5

If no sensor is configured the boxes will be blank

The layout and information reflects what Carlos and I believe is critical to a good user experience. You will note, this Version 2 allows for a independent sensor, which will read water levels and send that information to be displayed here. It takes a minute of looking this over to understand the value of each box.

Control Location	Valve Status	Click to Open Valve	Click to Partial Open Valve	Click to Close Valve	NWS Valve Open Time in Minutes	Link Status	Connection Interval in Minutes	Most Recent Connection	Battery Voltage	NWS Reception	Click for History
Big Pond	CLOSED	OPEN	Open	CLOSE	15	Connected	20	2020-01-12 07:24:20	27.0 V	15	History

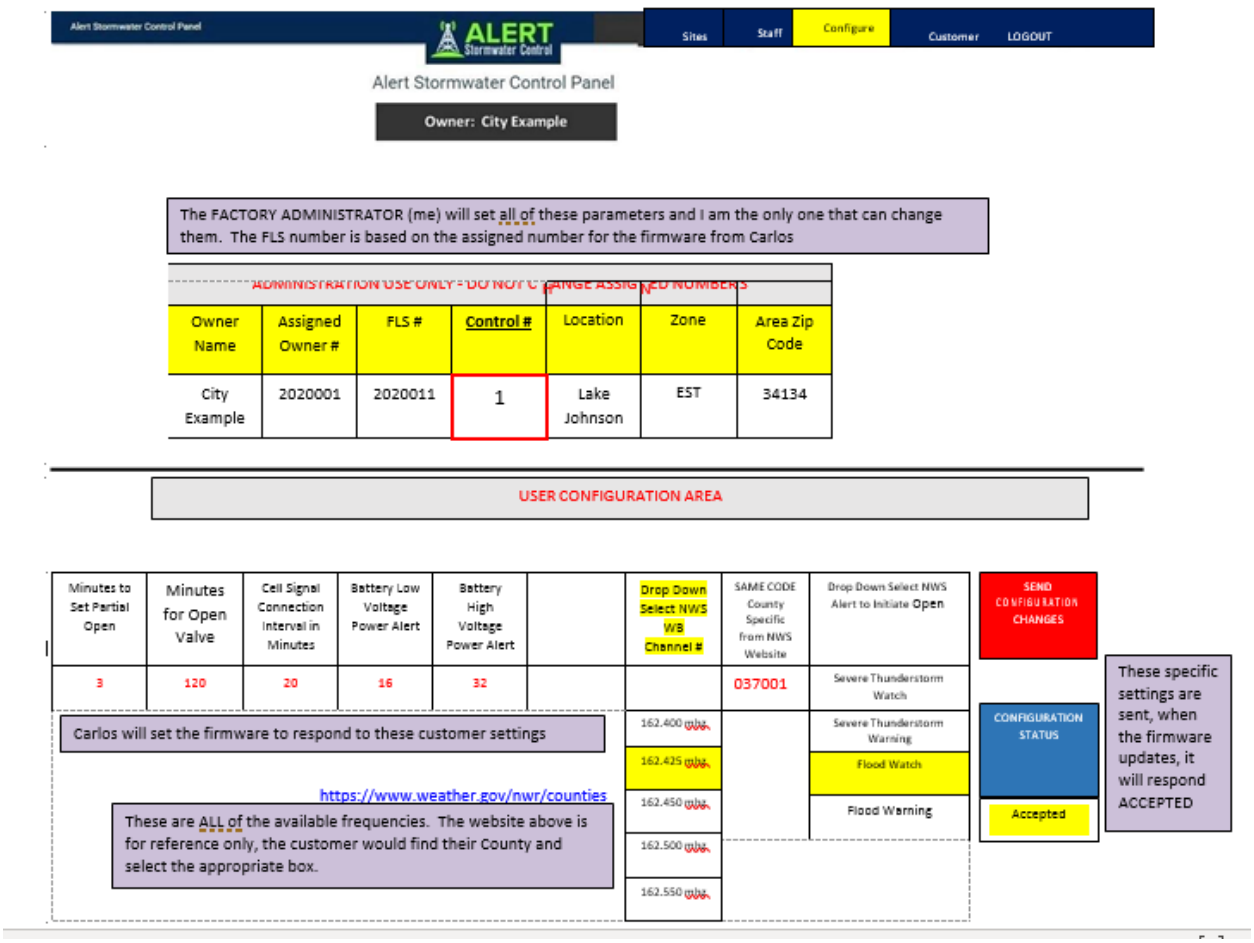
Current Water Elevation	Minimum Water Elevation Close Valve
399.8	389.1

If no sensor is configured the boxes will be blank

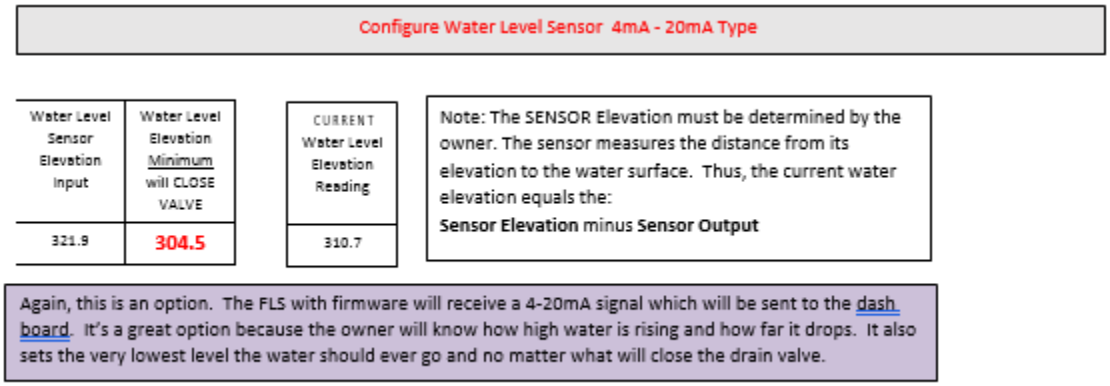
Valve Status can be
OPEN
CLOSED
PARTIAL

This is a new Pond Location, shows how there will be multiple locations for each customer

How Does the Information Get Inputted by the Customer. Each FLS site will need to be configured. So this input area is where the Customer Administrator goes in and sets the parameters. This is unique for each location.



For the OPTIONAL SENSOR they would fill this in:



VERSION 2: SMS Configuration: The Customer Administrator and any assigned staff will get an SMS notifications based on their selections below. This notification will say NWS ALERT "*whatever notice has occurred*" Location, Time and date So a menu like this is needed. This form wasn't used in VERSION 1.

SMS Alert Configuration

Weather Related Events	NONE	NOTIFY ONLY	NOTIFY AND OPEN VALVE	NOTIFY AND PARTIAL OPEN VALVE	NOTIFY WHEN VALVE CLOSES
Coastal Flood Watch		✓			
Coastal Flood Warning			✓		✓
Flash Flood Watch				✓	✓
Flash Flood Warning			✓		✓
Flood Watch		✓			
Flood Warning			✓		✓
Hurricane Watch		✓			
Hurricane Warning			✓		✓
Severe Thunderstorm Watch		✓			
Severe Thunderstorm Warning				✓	✓
Special Marine Warning	✓				
Storm Surge Watch	✓				
Storm Surge Warning	✓				
Tropical Storm Watch		✓			
Tropical Storm Warning			✓		✓
When NWS Signal is Lost		✓			
When Valve is Opened at FLS		✓			
When Valve is Closed at FLS		✓			
Battery Low Alert		✓			
Battery High Alert		✓			
Button shows action slected	✓				

SMS phone numbers were added for the Customer Administrator during Registration, then the Customer Administrator added phone numbers for each staff member

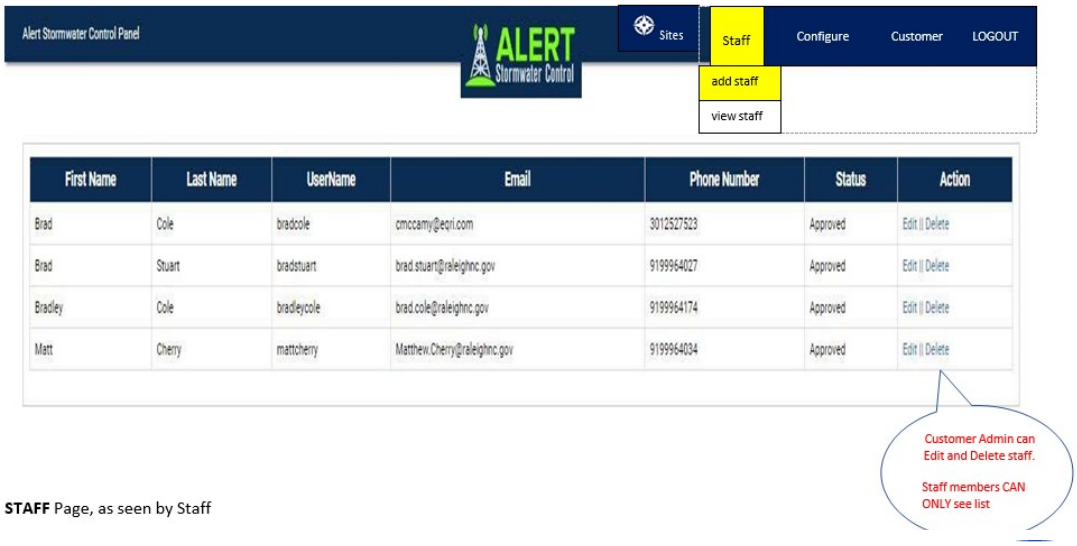
HISTORY PAGE

HISTORY LISTING – FLS ID# 16777200 CITY EXAMPLE PAGE 14351

Search By Date From Date To Search Go
refresh

Date & Time	Valve Status	Battery Voltage	NWS Reception	NWS Signal Frequency	Water Level Reading
2020-01-20 12:45:35	CLOSED (1)	27.1 V	22	162.475 MHz	310.3
2020-01-20 12:25:19	CLOSED (1)	27.1 V	23	162.475 MHz	311.3
2020-01-20 12:05:03	CLOSED (1)	27.1 V	22	162.475 MHz	310.3
2020-01-19 11:44:49	CLOSED (1)	27.1 V	23	162.475 MHz	311.3
2020-01-19 11:24:31	CLOSED (1)	27.0 V	21	162.475 MHz	312.9
2020-01-19 11:04:17	CLOSED (1)	27.1 V	22	162.475 MHz	311.3
2020-01-19 10:44:01	CLOSED (1)	27.1 V	23	162.475 MHz	313.6
2020-01-19 10:23:45	CLOSED (1)	27.1 V	21	162.475 MHz	313.1
2020-01-19 10:03:27	CLOSED (1)	27.0 V	23	162.475 MHz	313.8
2020-01-19 09:43:13	CLOSED (1)	27.0 V	21	162.475 MHz	311.1
2020-01-19 09:22:57	CLOSED (1)	27.0 V	22	162.475 MHz	310.9

STAFF Page as seen by the Customer Administrator



First Name	Last Name	UserName	Email	Phone Number	Status	Action
Brad	Cole	bradcole	cmccamy@eqri.com	3012527523	Approved	Edit || Delete
Brad	Stuart	bradstuart	brad.stuart@raleighnc.gov	9199964027	Approved	Edit || Delete
Bradley	Cole	bradleycole	brad.cole@raleighnc.gov	9199964174	Approved	Edit || Delete
Matt	Cherry	mattcherry	Matthew.Cherry@raleighnc.gov	9199964034	Approved	Edit || Delete

STAFF Page, as seen by Staff

First Name	Last Name	UserName	Email	Phone Number
Brad	Cole	bradcole	cmccamy@eqri.com	3012527523
Brad	Stuart	bradstuart	brad.stuart@raleighnc.gov	9199964027
Bradley	Cole	bradleycole	brad.cole@raleighnc.gov	9199964174
Matt	Cherry	mattcherry	Matthew.Cherry@raleighnc.gov	9199964034

ALERT STORMWATER SYSTEM FLOW OF INFORMATION